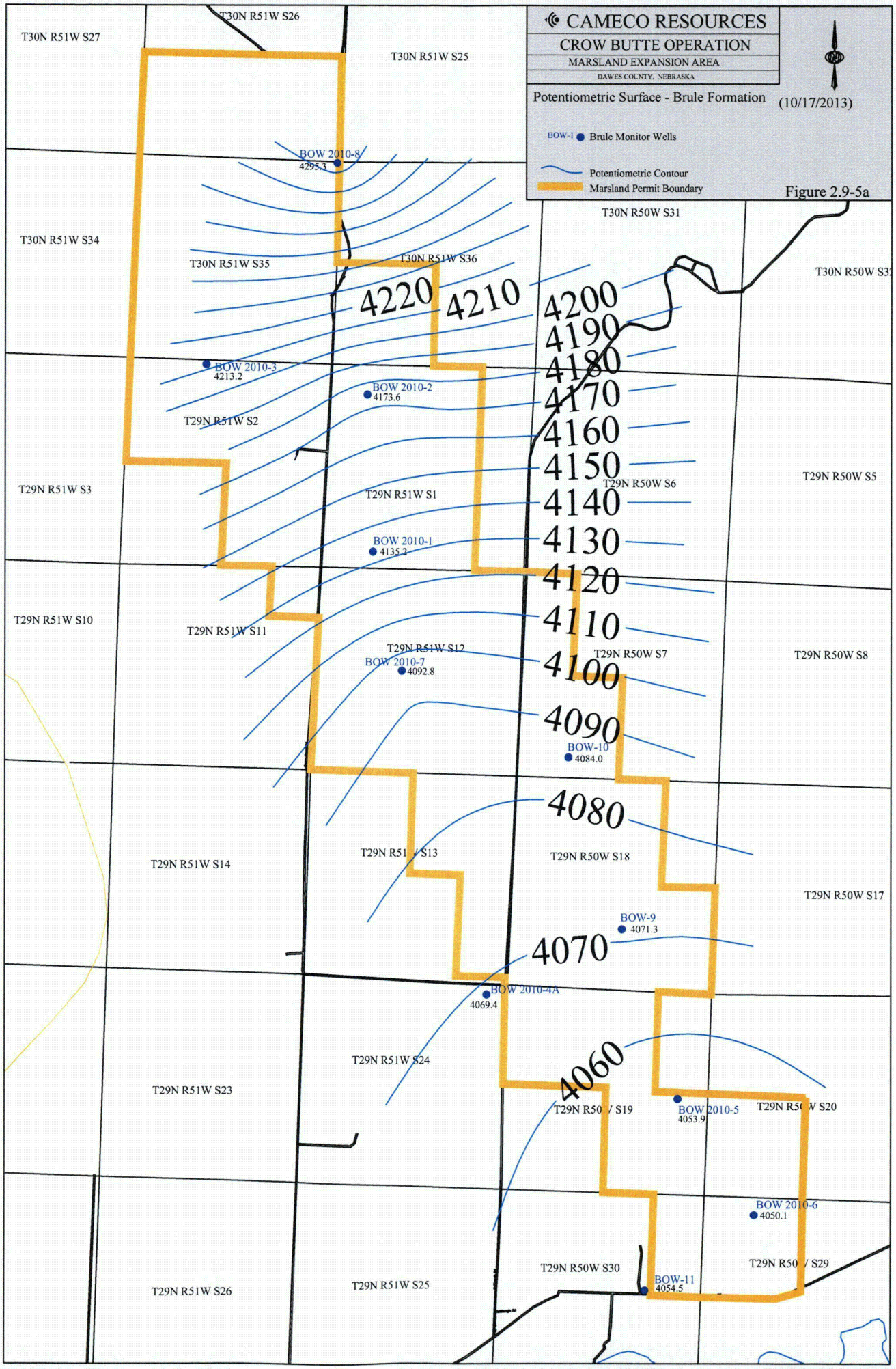
CAMECO RESOURCES
CROW BUTTE OPERATION
MARSLAND EXPANSION AREA
DAWES COUNTY, NEBRASKA
Potentiometric Surface - Brule Formation
(10/17/2013)
BOW-1 Brule Monitor Wells
Potentiometric Contour
Marsland Permit Boundary
Figure 2.9-5a
T30N R51W S27
T30N R51W S26
T30N R51W S25
T30N R51W S34
T30N R51W S35
T30N R51W S36
T30N R50W S31
T30N R50W S32
T29N R51W S2
T29N R51W S3
T29N R51W S1
T29N R50W S6
T29N R50W S5
T29N R51W S10
T29N R51W S11
T29N R51W S12
T29N R50W S7
T29N R50W S8
T29N R51W S14
T29N R51W S13
T29N R50W S18
T29N R50W S17
T29N R51W S23
T29N R51W S24
T29N R50W S19
T29N R50W S20
T29N R51W S26
T29N R51W S25
T29N R50W S30
T29N R50W S29
BOW 2010-8
4295.3
BOW 2010-3
4213.2
BOW 2010-2
4173.6
BOW 2010-1
4135.2
BOW 2010-7
4092.8
BOW-10
4084.0
BOW-9
4071.3
BOW 2010-4A
4069.4
BOW 2010-5
4053.9
BOW 2010-6
4050.1
BOW-11
4054.5
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4210
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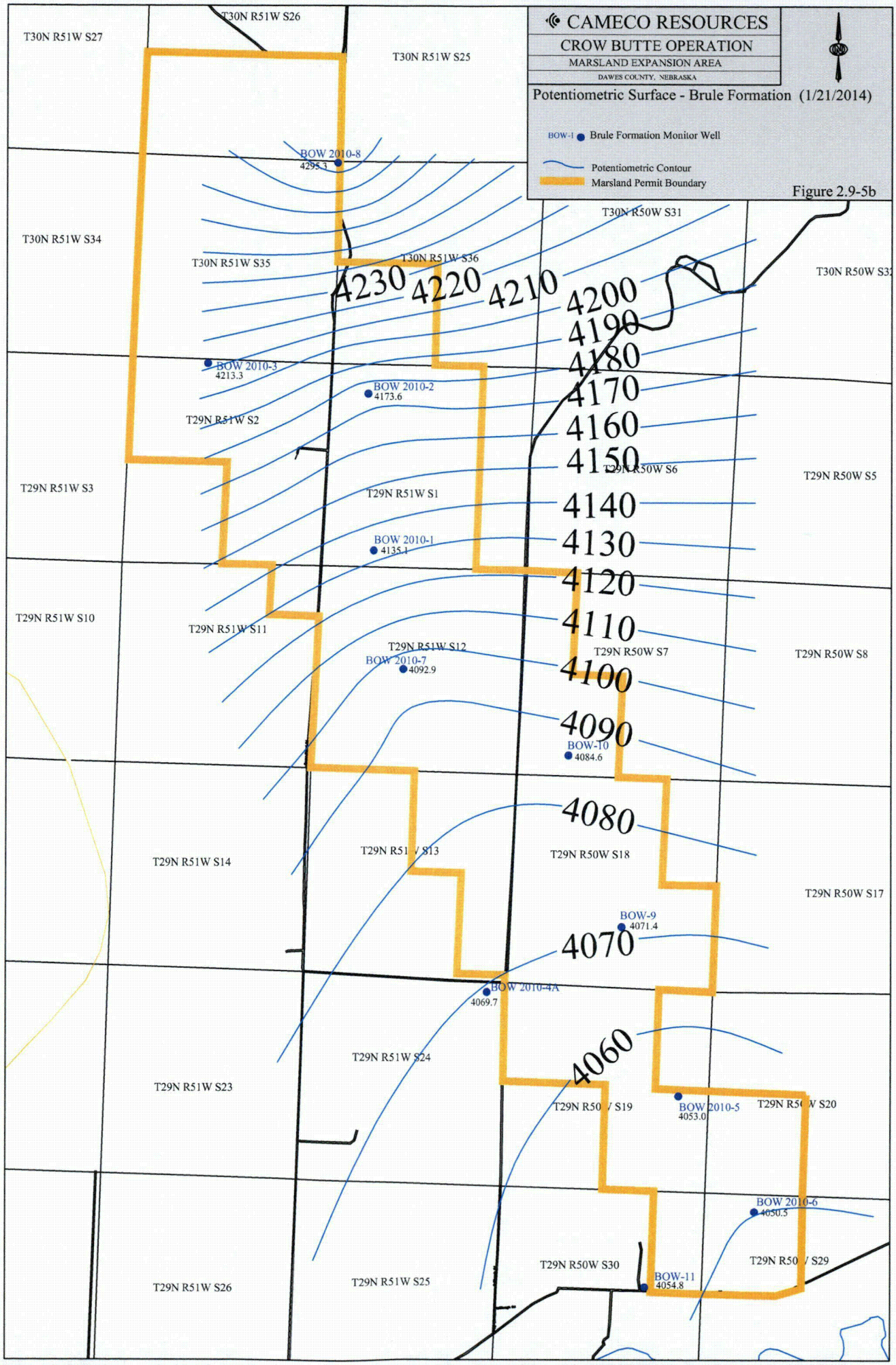
CAMECO RESOURCES
CROW BUTTE OPERATION
MARSLAND EXPANSION AREA
DAWES COUNTY, NEBRASKA
Potentiometric Surface - Brule Formation (1/21/2014)
BOW-1 Brule Formation Monitor Well
Potentiometric Contour
Marsland Permit Boundary
Figure 2.9-5b
T30N R51W S27
T30N R51W S26
T30N R51W S25
T30N R51W S34
T30N R51W S35
T30N R51W S36
T30N R50W S31
T30N R50W S32
T29N R51W S2
T29N R51W S3
T29N R51W S1
T29N R50W S6
T29N R50W S5
T29N R51W S10
T29N R51W S11
T29N R51W S12
T29N R50W S7
T29N R50W S8
T29N R51W S14
T29N R51W S13
T29N R50W S18
T29N R50W S17
T29N R51W S23
T29N R51W S24
T29N R50W S19
T29N R50W S20
T29N R51W S26
T29N R51W S25
T29N R50W S30
T29N R50W S29
BOW 2010-8
4295.3
BOW 2010-3
4213.3
BOW 2010-2
4173.6
BOW 2010-1
4135.1
BOW 2010-7
4092.9
BOW-10
4084.6
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BOW 2010-4A
4069.7
BOW 2010-5
4053.0
BOW 2010-6
4050.5
BOW-11
4054.8
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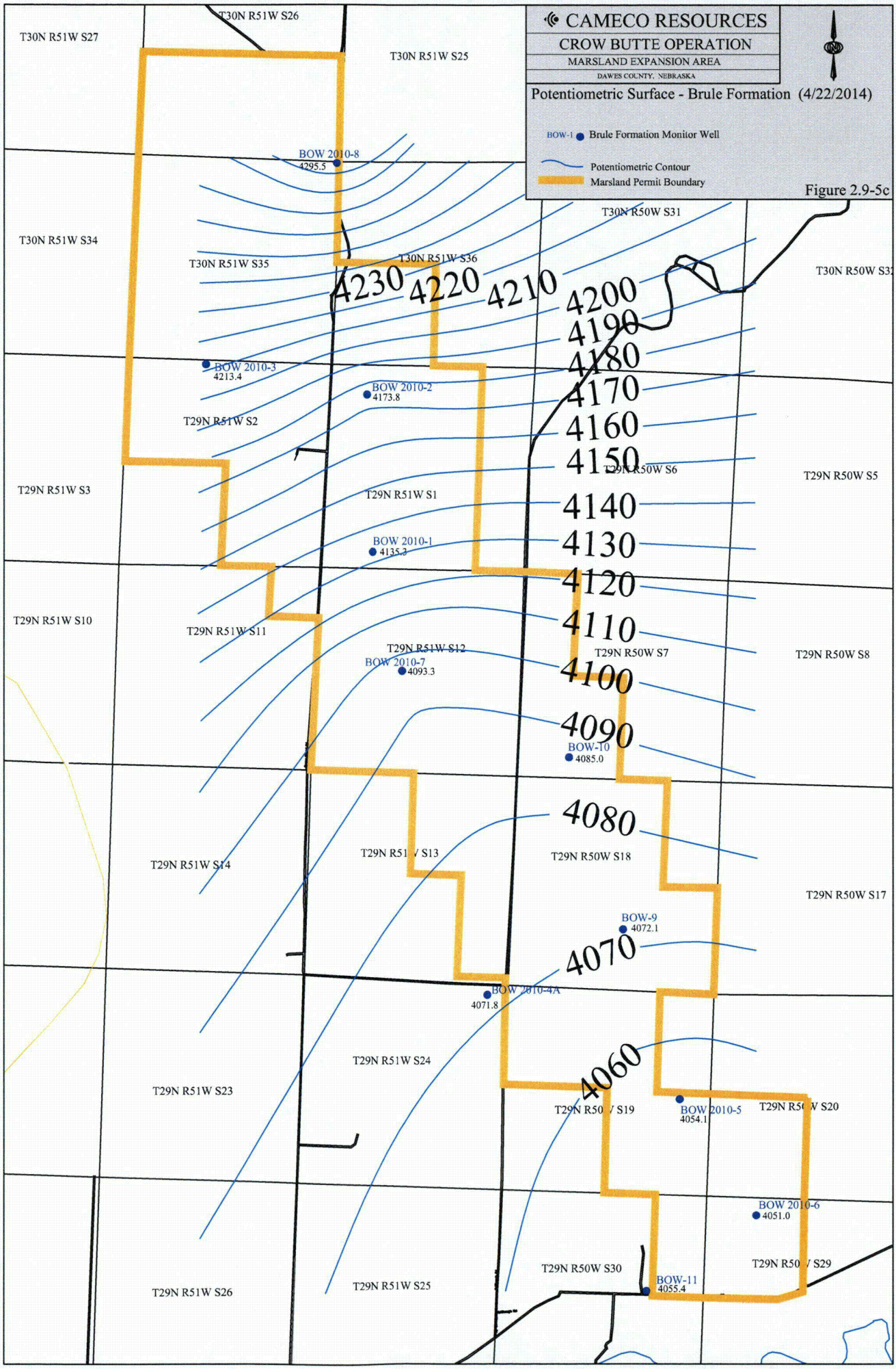
CAMECO RESOURCES
CROW BUTTE OPERATION
MARSLAND EXPANSION AREA
DAWES COUNTY, NEBRASKA
Potentiometric Surface - Brule Formation (4/22/2014)
BOW-1 Brule Formation Monitor Well
Potentiometric Contour
Marsland Permit Boundary
Figure 2.9-5c
T30N R51W S27
T30N R51W S26
T30N R51W S25
T30N R51W S34
T30N R51W S35
T30N R51W S36
T30N R50W S31
T30N R50W S32
T29N R51W S2
T29N R51W S3
T29N R51W S1
T29N R50W S6
T29N R50W S5
T29N R51W S10
T29N R51W S11
T29N R51W S12
T29N R50W S7
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T29N R51W S14
T29N R51W S13
T29N R50W S18
T29N R50W S17
T29N R51W S23
T29N R51W S24
T29N R50W S19
T29N R50W S20
T29N R51W S26
T29N R51W S25
T29N R50W S30
T29N R50W S29
BOW 2010-8
4295.5
BOW 2010-3
4213.4
BOW 2010-2
4173.8
BOW 2010-1
4135.3
BOW 2010-7
4093.3
BOW-10
4085.0
BOW-9
4072.1
BOW 2010-4A
4071.8
BOW 2010-5
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BOW 2010-6
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BOW-11
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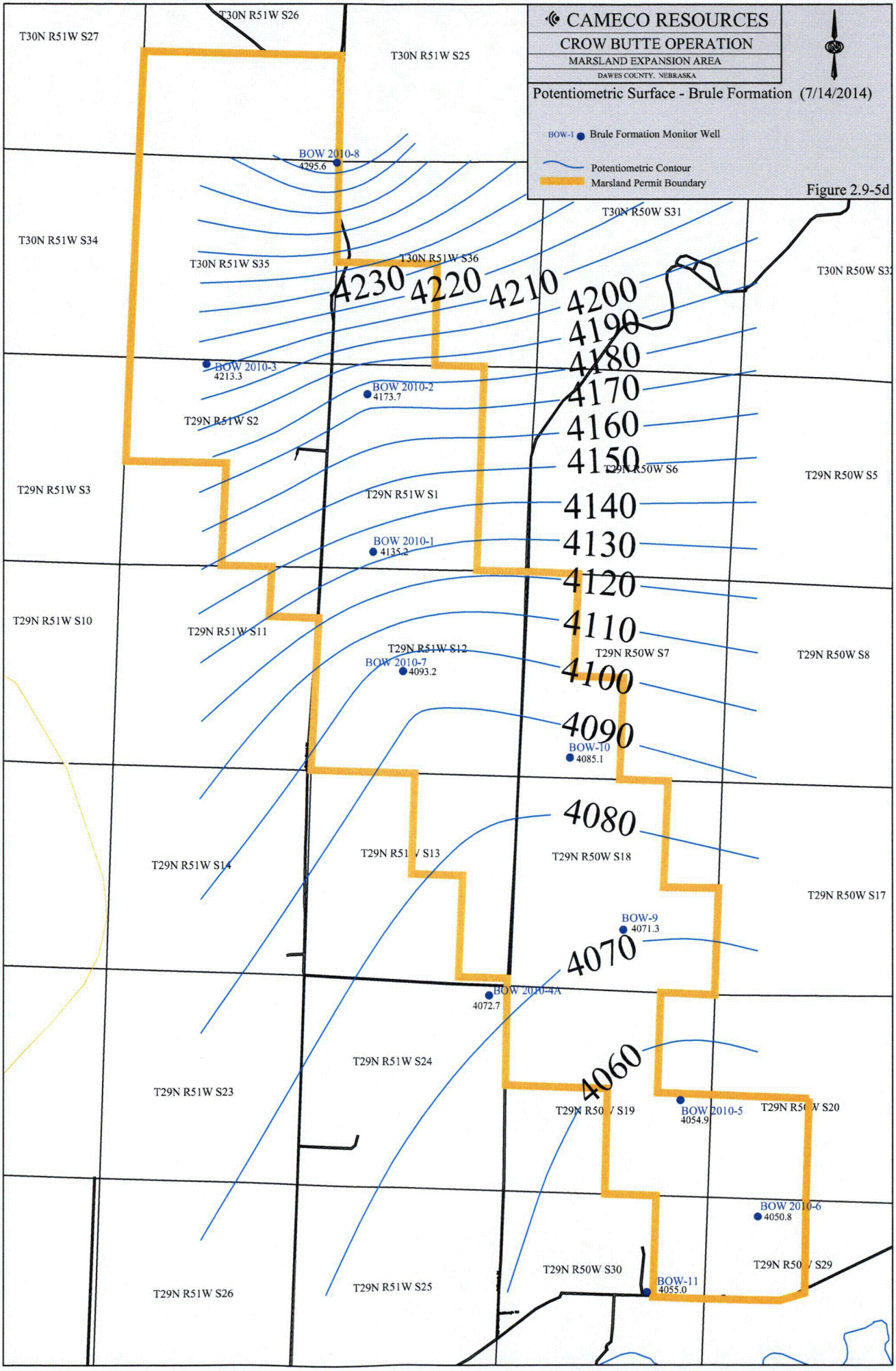
CAMECO RESOURCES
CROW BUTTE OPERATION
MARSLAND EXPANSION AREA
DAWES COUNTY, NEBRASKA
Potentiometric Surface - Brule Formation (7/14/2014)
BOW-1 Brule Formation Monitor Well
Potentiometric Contour
Marsland Permit Boundary
Figure 2.9-5d
T30N R51W S27
T30N R51W S26
T30N R51W S25
T30N R51W S34
T30N R51W S35
T30N R51W S36
T30N R50W S31
T30N R50W S32
T29N R51W S2
T29N R51W S3
T29N R51W S1
T29N R50W S6
T29N R50W S5
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T29N R51W S11
T29N R51W S12
T29N R50W S7
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T29N R50W S18
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T29N R51W S24
T29N R50W S19
T29N R50W S20
T29N R51W S26
T29N R51W S25
T29N R50W S30
T29N R50W S29
BOW 2010-8
4295.6
BOW 2010-3
4213.3
BOW 2010-2
4173.7
BOW 2010-1
4135.2
BOW 2010-7
4093.2
BOW-10
4085.1
BOW-9
4071.3
BOW 2010-4A
4072.7
BOW 2010-5
4054.9
BOW 2010-6
4050.8
BOW-11
4055.0
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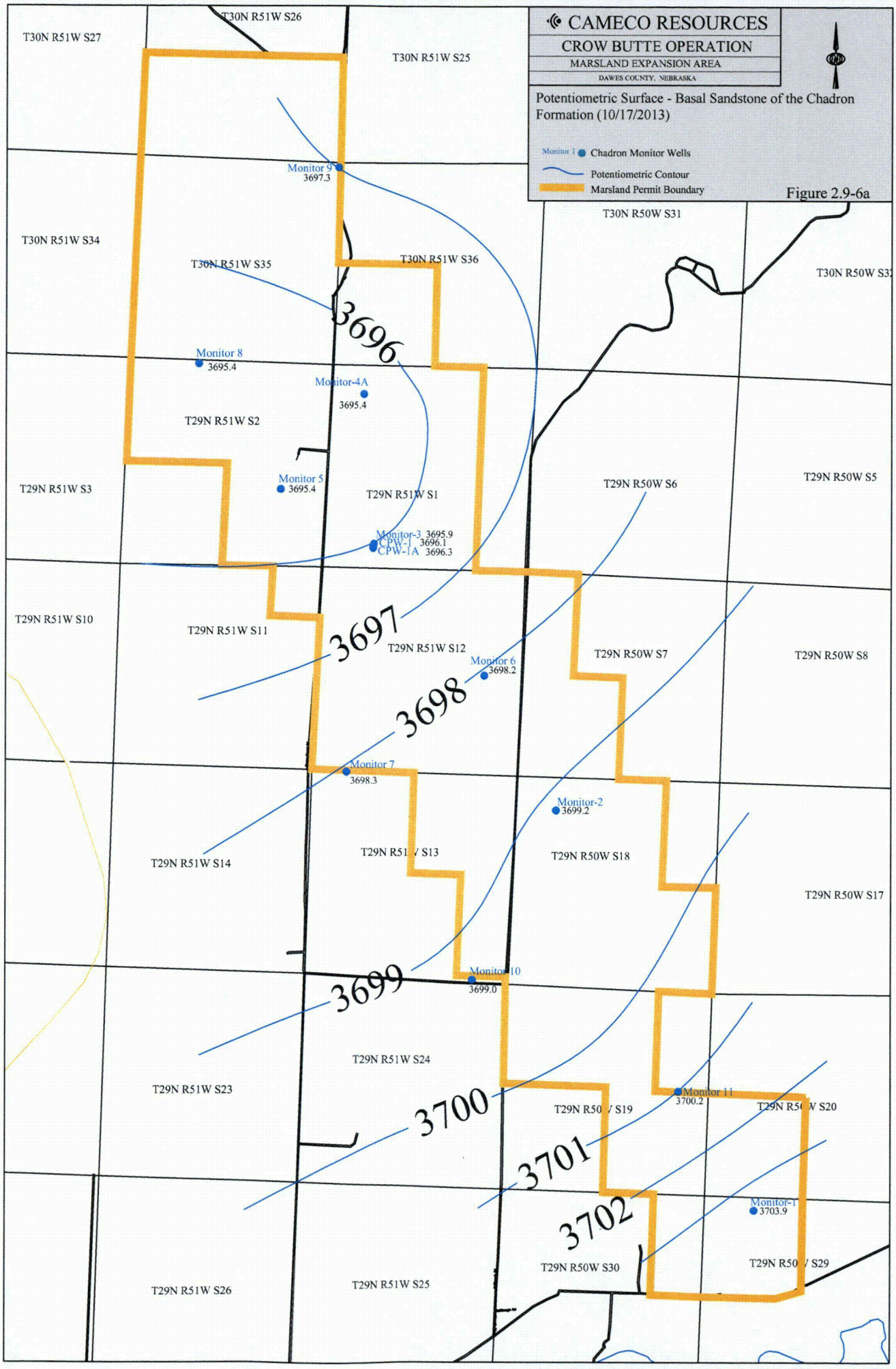
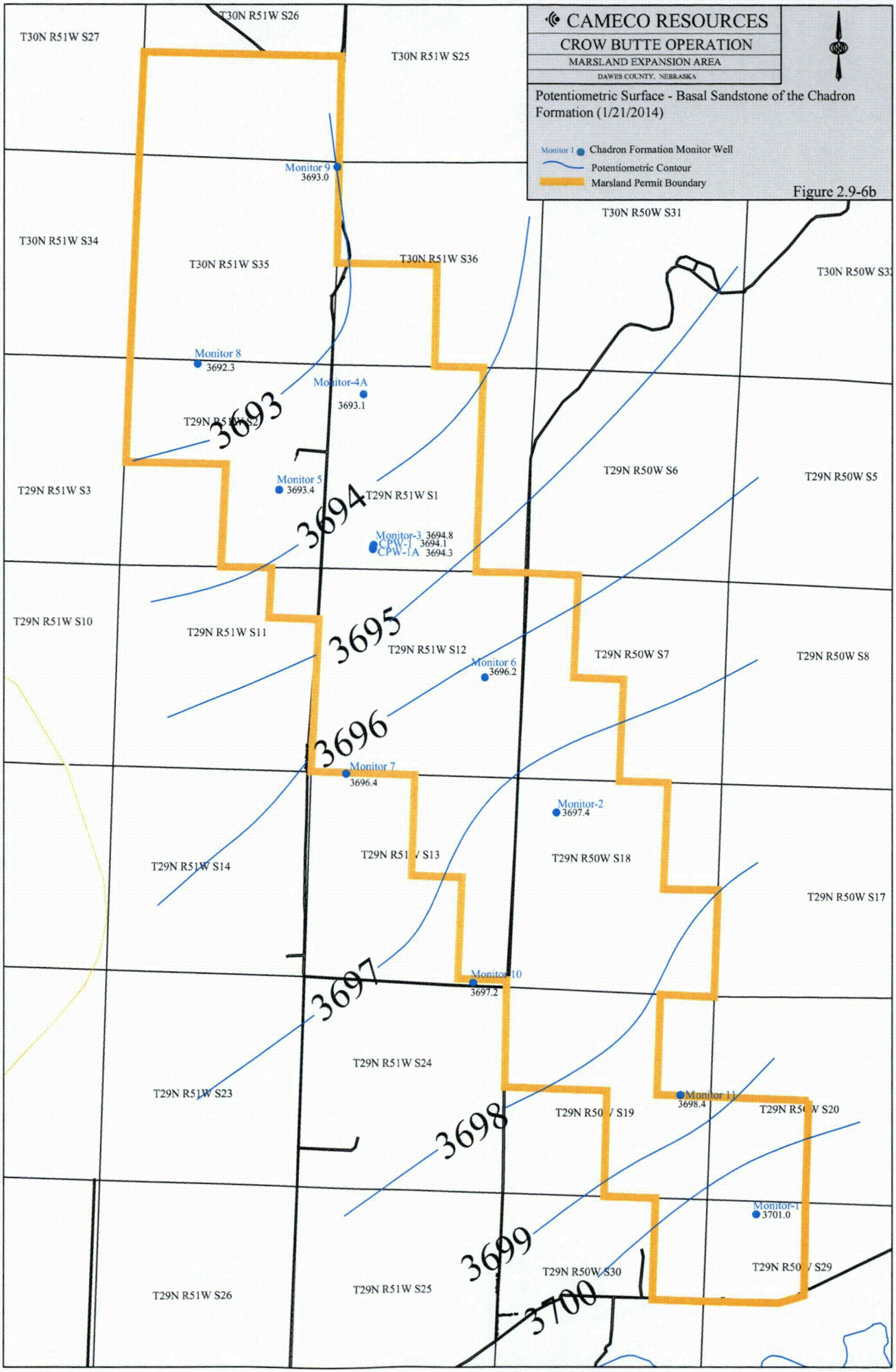

CAMECO RESOURCES
CROW BUTTE OPERATION
MARSLAND EXPANSION AREA
DAWES COUNTY, NEBRASKA
Potentiometric Surface - Basal Sandstone of the Chadron Formation (10/17/2013)
Monitor 1 Chadron Monitor Wells
Potentiometric Contour
Marsland Permit Boundary
Figure 2.9-6a
T30N R51W S27
T30N R51W S26
T30N R51W S25
T30N R51W S34
T30N R51W S35
T30N R51W S36
T30N R50W S31
T30N R50W S32
Monitor 9
3697.3
Monitor 8
3695.4
Monitor-4A
3695.4
3696
T29N R51W S2
T29N R51W S3
Monitor 5
3695.4
T29N R51W S1
T29N R50W S6
T29N R50W S5
Monitor-3 3695.9
CPW-1 3696.1
CPW-1A 3696.3
T29N R51W S10
T29N R51W S11
3697
T29N R51W S12
T29N R50W S7
T29N R50W S8
Monitor 6
3698.2
3698
Monitor 7
3698.3
Monitor-2
3699.2
T29N R51W S14
T29N R51W S13
T29N R50W S18
T29N R50W S17
Monitor 10
3699.0
3699
T29N R51W S24
T29N R51W S23
3700
T29N R50W S19
Monitor 11
3700.2
T29N R50W S20
3701
3702
Monitor-1
3703.9
T29N R50W S30
T29N R50W S29
T29N R51W S26
T29N R51W S25


CAMECO RESOURCES
CROW BUTTE OPERATION
MARSLAND EXPANSION AREA
DAWES COUNTY, NEBRASKA
Potentiometric Surface - Basal Sandstone of the Chadron Formation (1/21/2014)
Monitor 1 Chadron Formation Monitor Well
Potentiometric Contour
Marsland Permit Boundary
Figure 2.9-6b
T30N R51W S27
T30N R51W S26
T30N R51W S25
T30N R51W S34
T30N R51W S35
T30N R51W S36
T30N R50W S31
T30N R50W S32
T29N R51W S3
T29N R51W S1
T29N R50W S6
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T29N R51W S11
T29N R51W S12
T29N R50W S7
T29N R50W S8
T29N R51W S14
T29N R51W S13
T29N R50W S18
T29N R50W S17
T29N R51W S23
T29N R51W S24
T29N R50W S19
T29N R50W S20
T29N R51W S26
T29N R51W S25
T29N R50W S30
T29N R50W S29
Monitor 9
3693.0
Monitor 8
3692.3
Monitor-4A
3693.1
Monitor 5
3693.4
Monitor-3
3694.8
CPW-1
3694.1
CPW-1A
3694.3
Monitor 6
3696.2
Monitor 7
3696.4
Monitor-2
3697.4
Monitor-10
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Monitor-1
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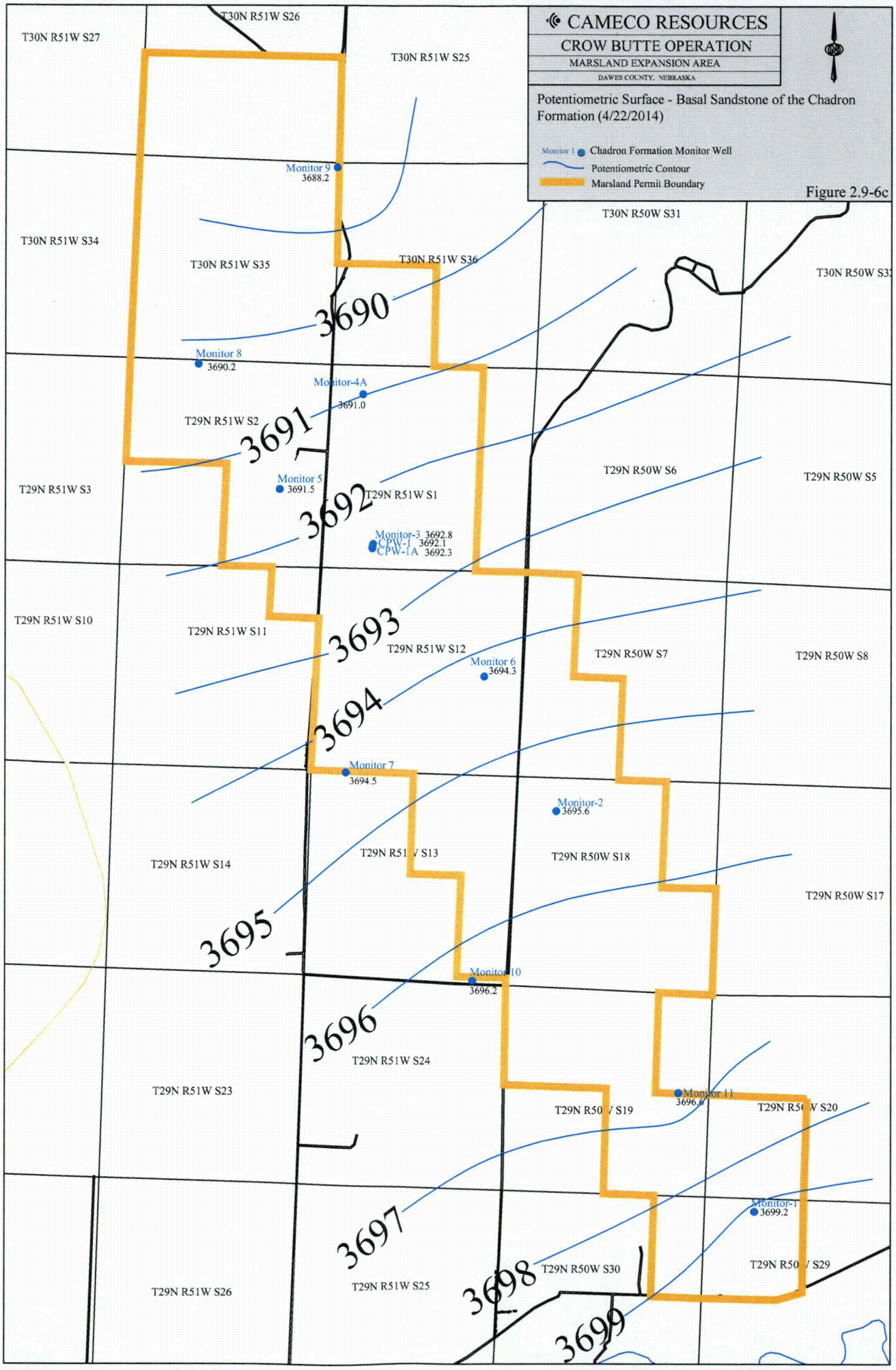
CAMECO RESOURCES
CROW BUTTE OPERATION
MARSLAND EXPANSION AREA
DAWES COUNTY, NEBRASKA
Potentiometric Surface - Basal Sandstone of the Chadron Formation (4/22/2014)
Monitor 1 Chadron Formation Monitor Well
Potentiometric Contour
Marsland Permit Boundary
Figure 2.9-6c
T30N R51W S27
T30N R51W S26
T30N R51W S25
T30N R51W S34
T30N R51W S35
T30N R51W S36
T30N R50W S31
T30N R50W S32
T29N R51W S2
T29N R51W S3
T29N R51W S1
T29N R50W S6
T29N R50W S5
T29N R51W S10
T29N R51W S11
T29N R51W S12
T29N R50W S7
T29N R50W S8
T29N R51W S14
T29N R51W S13
T29N R50W S18
T29N R50W S17
T29N R51W S23
T29N R51W S24
T29N R50W S19
T29N R50W S20
T29N R51W S26
T29N R51W S25
T29N R50W S30
T29N R50W S29
Monitor 9 3688.2
Monitor 8 3690.2
Monitor-4A 3691.0
Monitor 5 3691.5
Monitor-3 3692.8
CPW-1 3692.1
CPW-1A 3692.3
Monitor 6 3694.3
Monitor 7 3694.5
Monitor-2 3695.6
Monitor 10 3696.2
Monitor 11 3696.6
Monitor-1 3699.2
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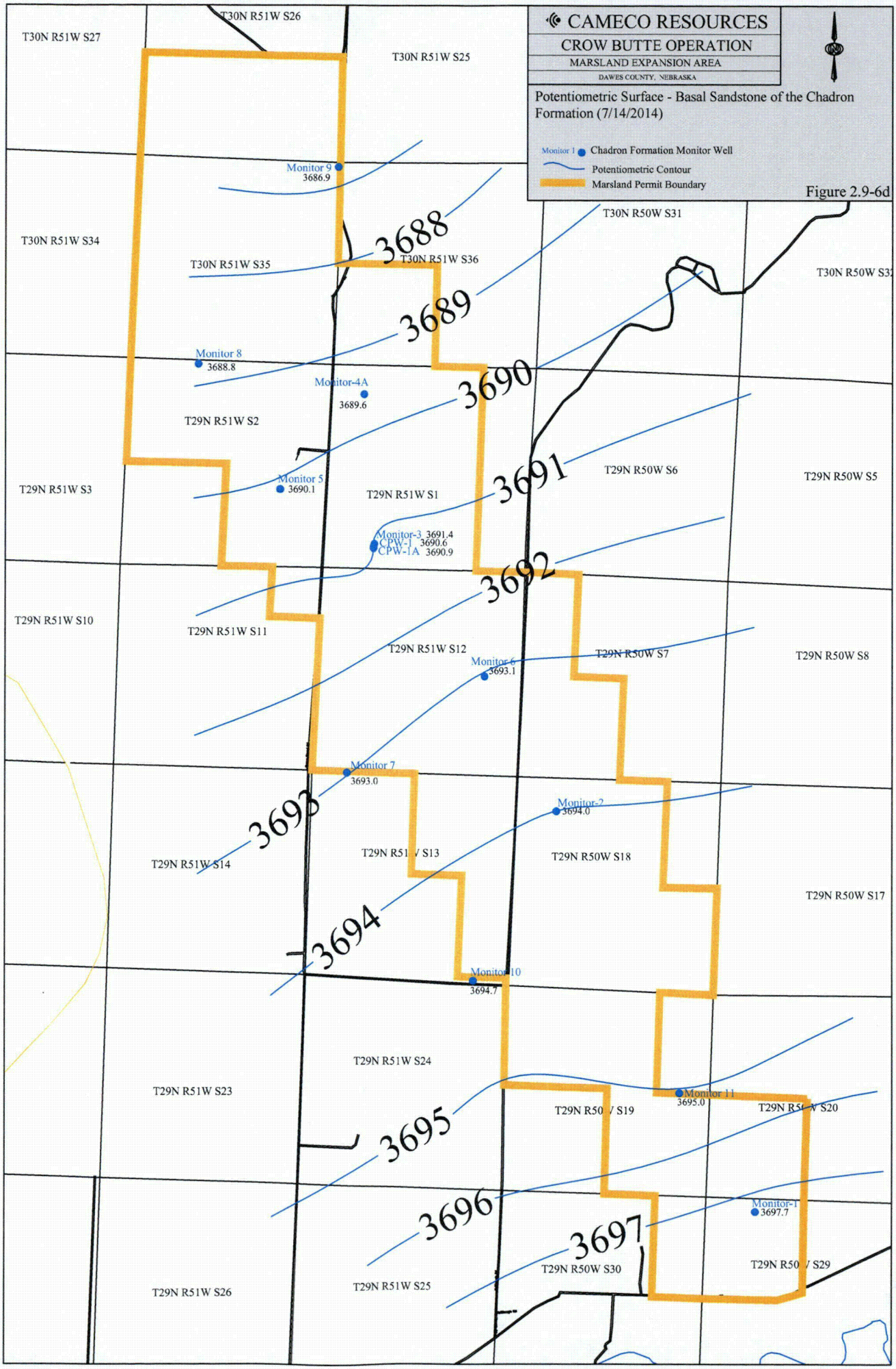
CAMECO RESOURCES
CROW BUTTE OPERATION
MARSLAND EXPANSION AREA
DAWES COUNTY, NEBRASKA
Potentiometric Surface - Basal Sandstone of the Chadron Formation (7/14/2014)
Monitor 1 Chadron Formation Monitor Well
Potentiometric Contour
Marsland Permit Boundary
Figure 2.9-6d
T30N R51W S27
T30N R51W S26
T30N R51W S25
T30N R51W S34
T30N R51W S35
T30N R51W S36
T30N R50W S31
T30N R50W S32
T29N R51W S2
T29N R51W S3
T29N R51W S1
T29N R50W S6
T29N R50W S5
T29N R51W S10
T29N R51W S11
T29N R51W S12
T29N R50W S7
T29N R50W S8
T29N R51W S14
T29N R51W S13
T29N R50W S18
T29N R50W S17
T29N R51W S24
T29N R51W S23
T29N R50W S19
T29N R50W S20
T29N R51W S26
T29N R51W S25
T29N R50W S30
T29N R50W S29
Monitor 9 3686.9
Monitor 8 3688.8
Monitor-4A 3689.6
Monitor 5 3690.1
Monitor-3 3691.4
CPW-1 3690.6
CPW-1A 3690.9
Monitor 6 3693.1
Monitor 7 3693.0
Monitor-2 3694.0
Monitor 10 3694.7
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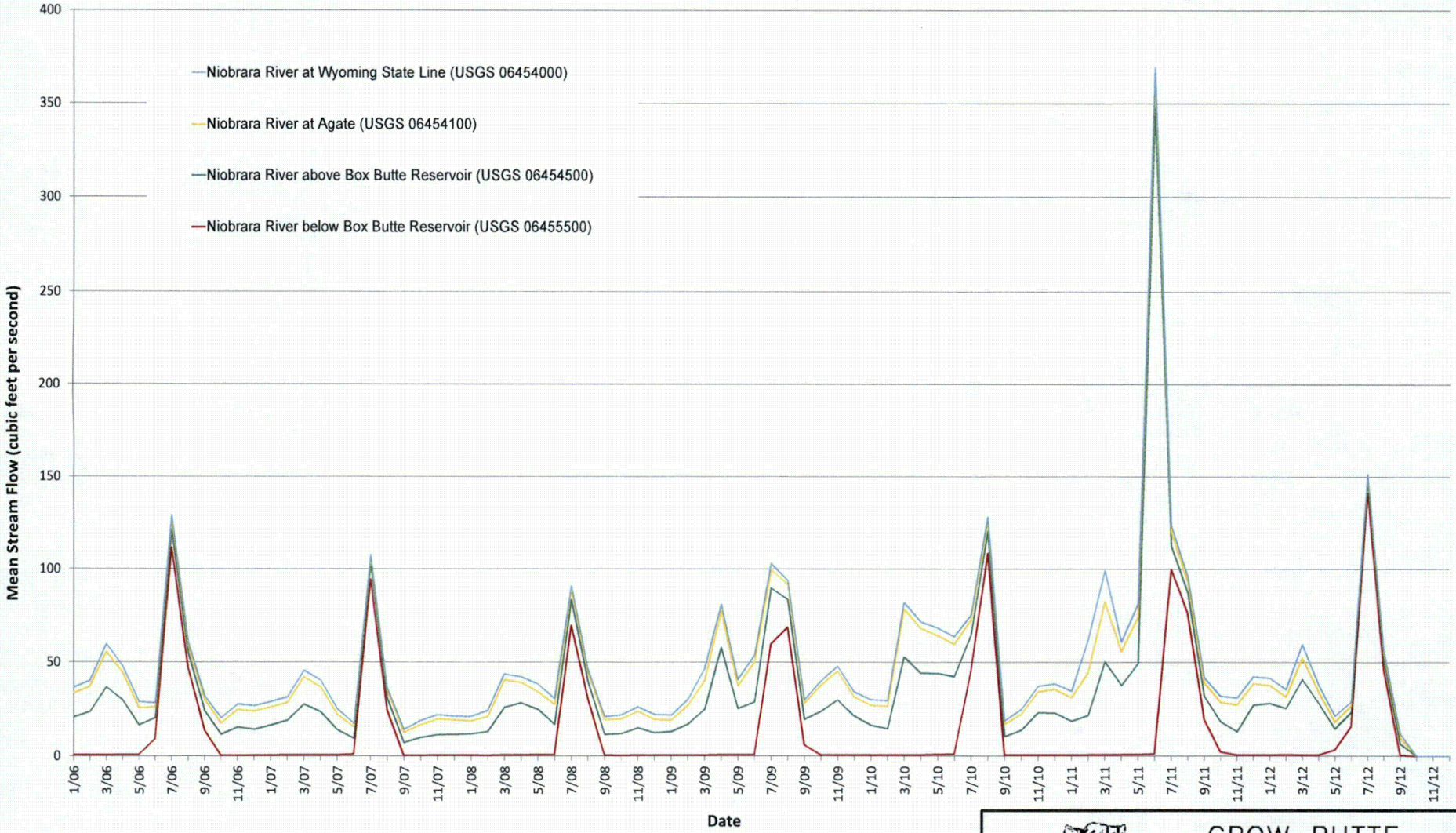

Source: Williams.2013; Table F.1-3

CROW BUTTE RESOURCES, INC.

FIGURE 2.9-7
UPPER NIOBRARA RIVER AVERAGE FLOWS AT USGS/NDNR STREAM GAGING STATIONS

PROJECT: CO001636 MAPPED BY: JC CHECKED BY: JEC

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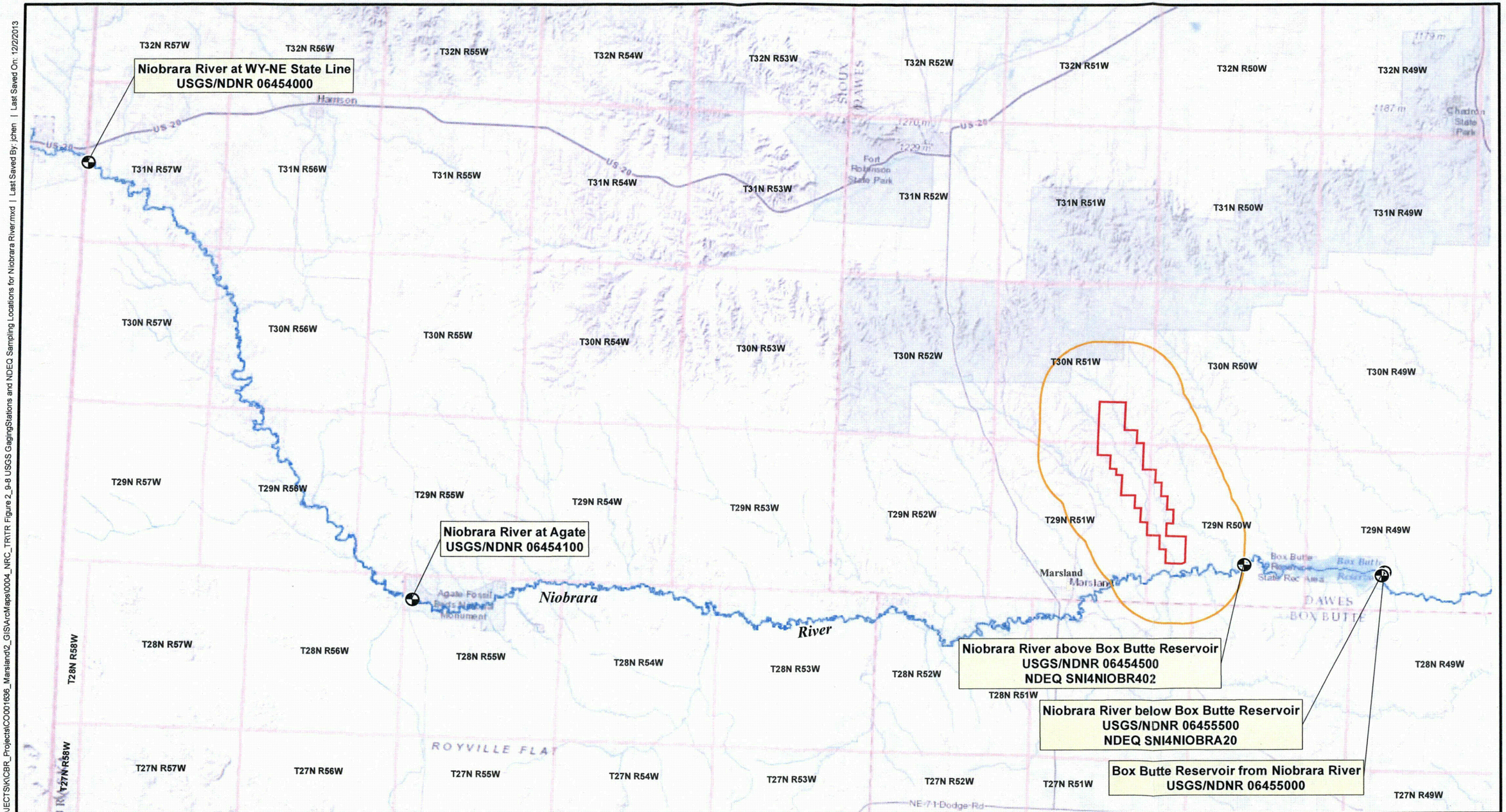
K:\CBR_Projects\CO001636_Marsland\3_IMAGES\Illustrator\UIC_Fig_F 1-5 Upper Niobrara River Average Flows at USGS_NDNR Stream Gaging Stations4.ai @ 09/04/2013



LEGEND

- USGS/NDNR Stream Gaging Station and NDEQ Sampling Location
- Niobrara River
- Proposed Marsland Expansion Area
- Area of Review (AOR)

PROJECTION: NAD 1983, STATE PLANE NEBRASKA NORTH FIPS 2600
SOURCE: TOPOGRAPHIC MAP, SERVICED BY ESRI ARCGIS ONLINE

CROW BUTTE RESOURCES, INC.

FIGURE 2.9-8
USGS/NDNR STREAM GAGING STATIONS AND NDEQ SAMPLING LOCATIONS FOR NIOBRARA RIVER

PROJECT: CO001636 MAPPED BY: JC

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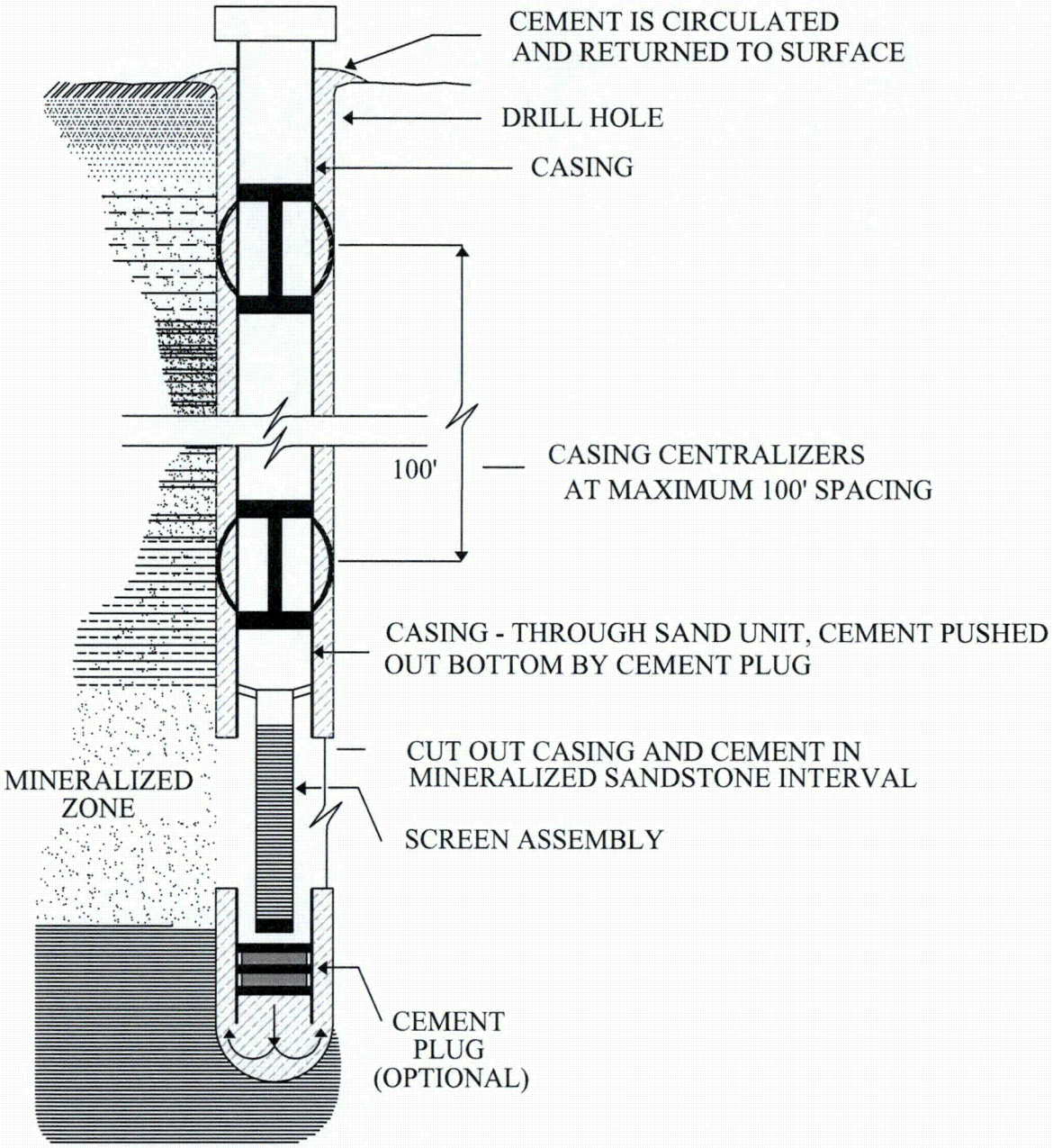
Path: C:\Users\jchen\Documents_PROJECTS\KICBR_Projects\CO001636_Marsland\2_GIS\ArcMaps\0004_NRC_TR\TR Figure 2_9-8 USGS GagingStations and NDEQ Sampling Locations for Niobrara River.mxd | Last Saved By: jchen | Last Saved On: 12/2/2013



CROW BUTTE RESOURCES, INC.

FIGURE 3.1-1

TYPICAL MINERALIZED ZONE COMPLETION FOR INJECTION/PRODUCTION WELLS

METHOD NO.1

PROJECT: CO001396.02 MAPPED BY: JC CHECKED BY: JEC

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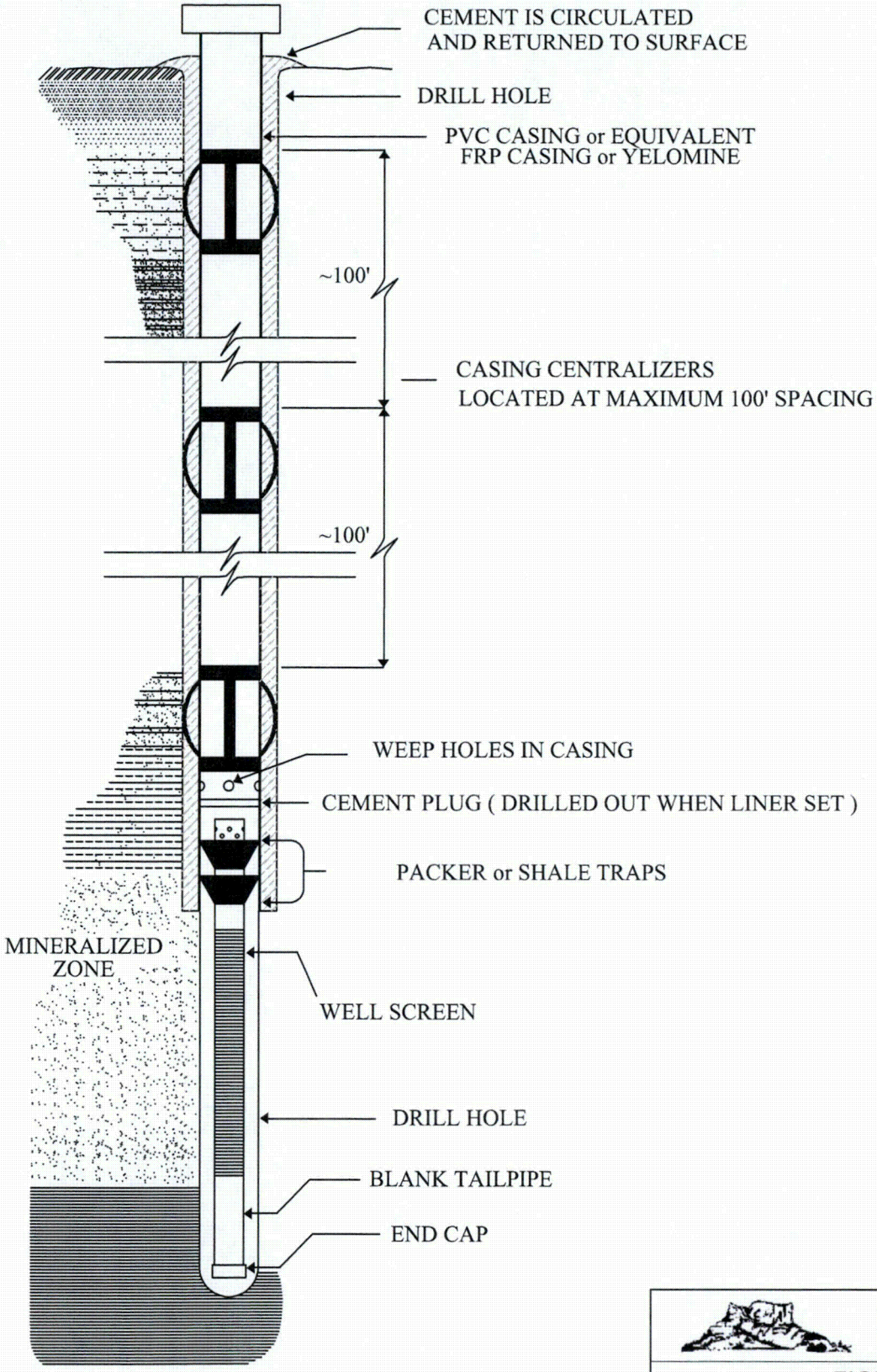
PATH: K:\CBR_Pr...O001396_ThreeCrow\1_ACAD\ARCADIS_NewDrawings\WellCompletionMethods.dwg LAYOUT: TechRpt_No1 TIME: 2/2/2010 2:24 PM



CROW BUTTE RESOURCES, INC.

FIGURE 3.1-2

TYPICAL LINER COMPLETION FOR MONITOR OR INJECTION/PRODUCTION WELLS

METHOD NO.2

PROJECT: CO001396.02 MAPPED BY: JC CHECKED BY: JEC

ARCADIS 630 Plaza Drive, Ste. 100 Highlands Ranch, CO 80129 P: 720-344-3500 F: 720-344-3535 www.arcadis-us.com

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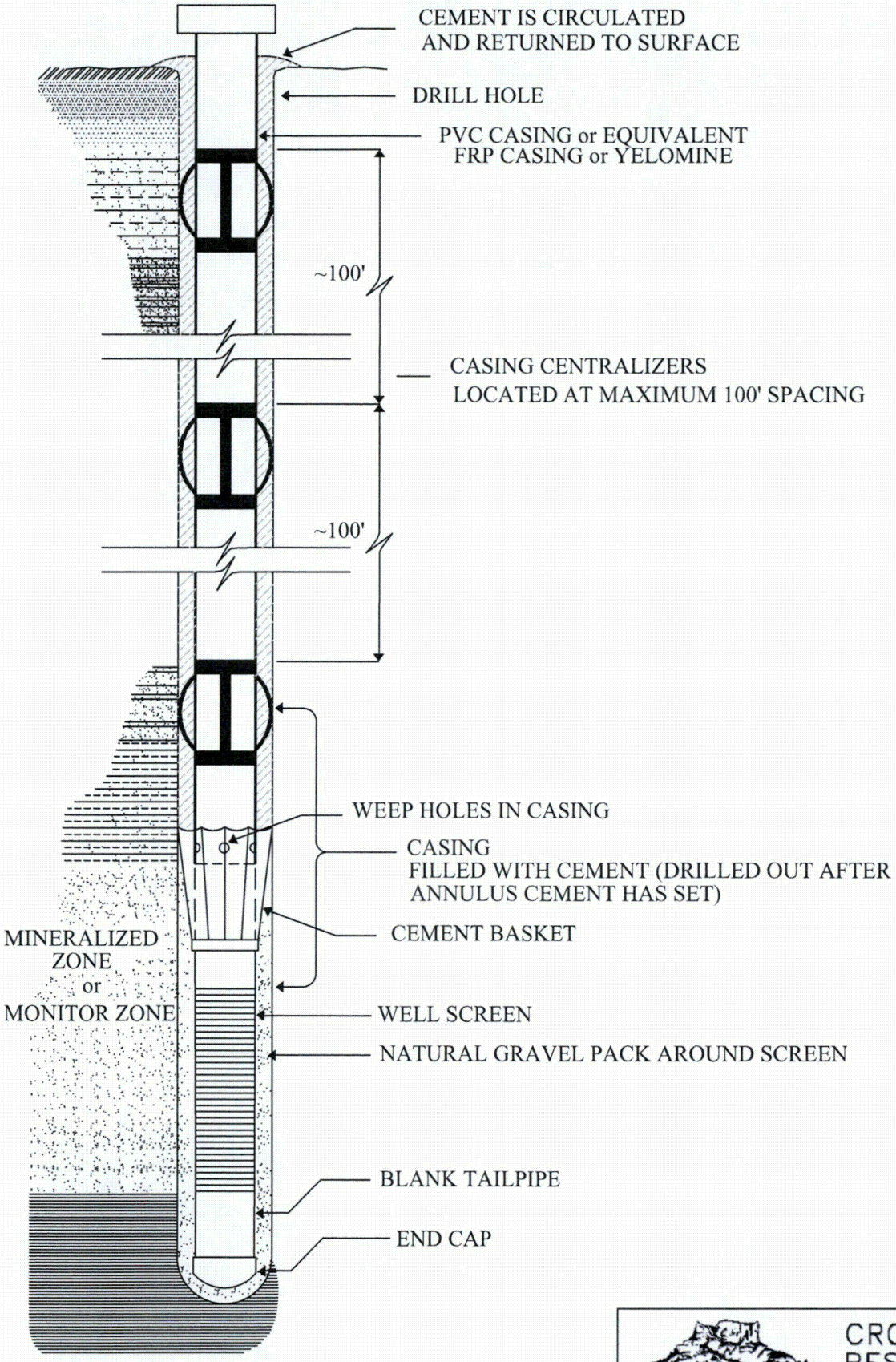

CROW BUTTE RESOURCES, INC.

FIGURE 3.1-3

TYPICAL CEMENT BASKET COMPLETION FOR MONITOR OR INJECTION/PRODUCTION WELLS

METHOD NO.3

PROJECT: CO001396.02 MAPPED BY: JC CHECKED BY: JEC

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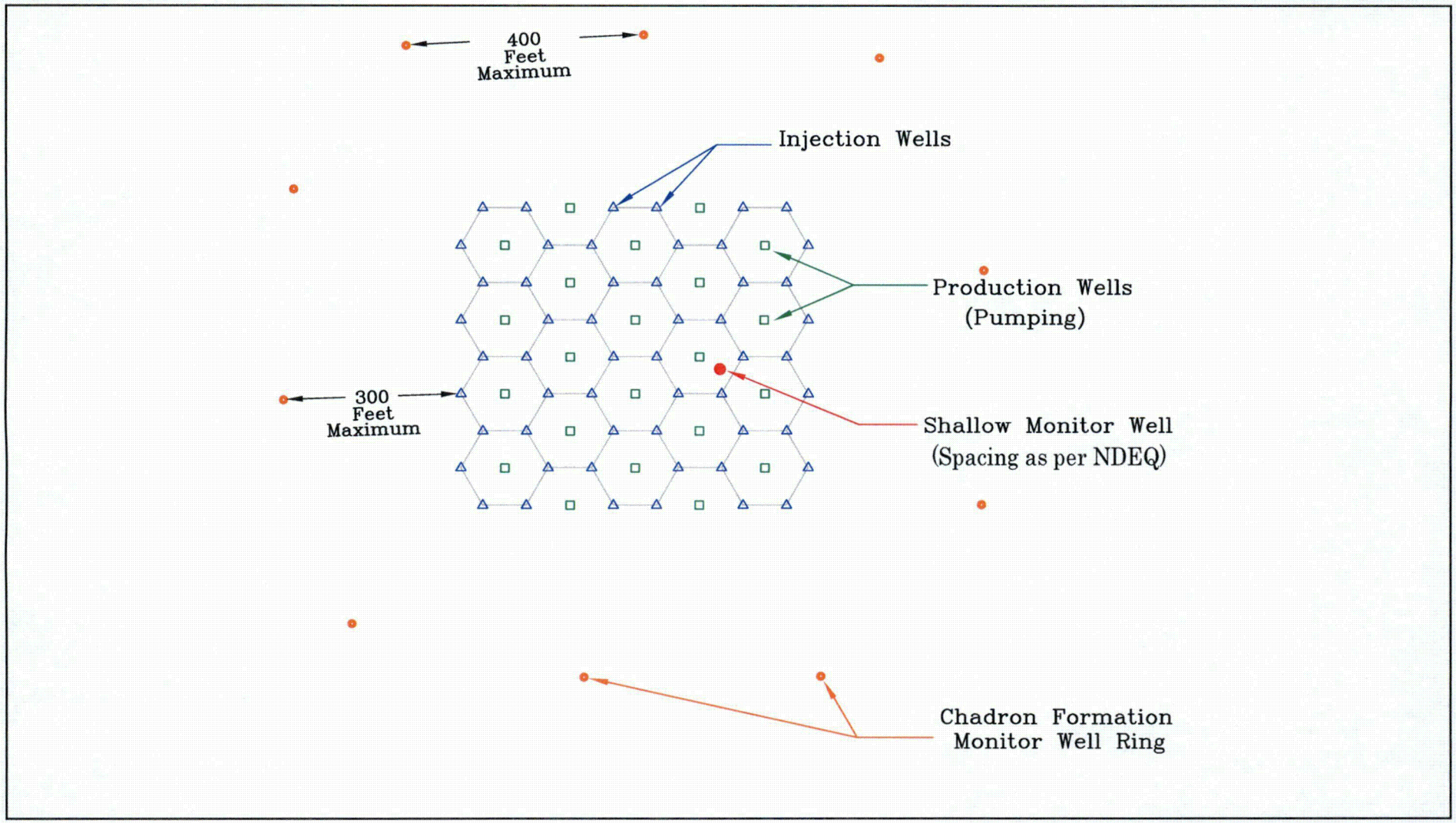
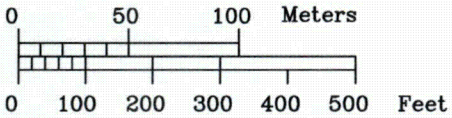
PATH: C:\Users\jchen\Documents_PROJECTS\KCBR_Projects\CO001636_Marsland\1_ACAD\WellCompletionMethods.dwg LAYOUT: UIC_3 DATE/TIME: 10/21/2011 11:46 AM





CROW BUTTE RESOURCES, INC.

FIGURE 3.1-4

TYPICAL WELLFIELD LAYOUT

PROJECT: CO001636 MAPPED BY: JC CHECKED BY: JEC

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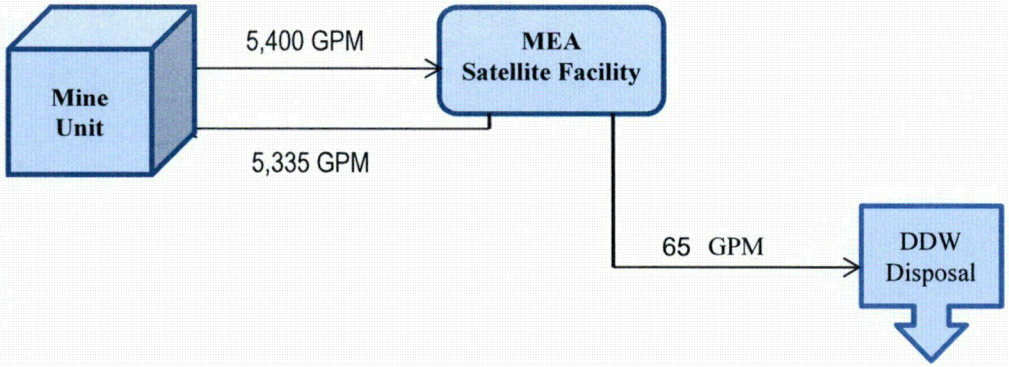
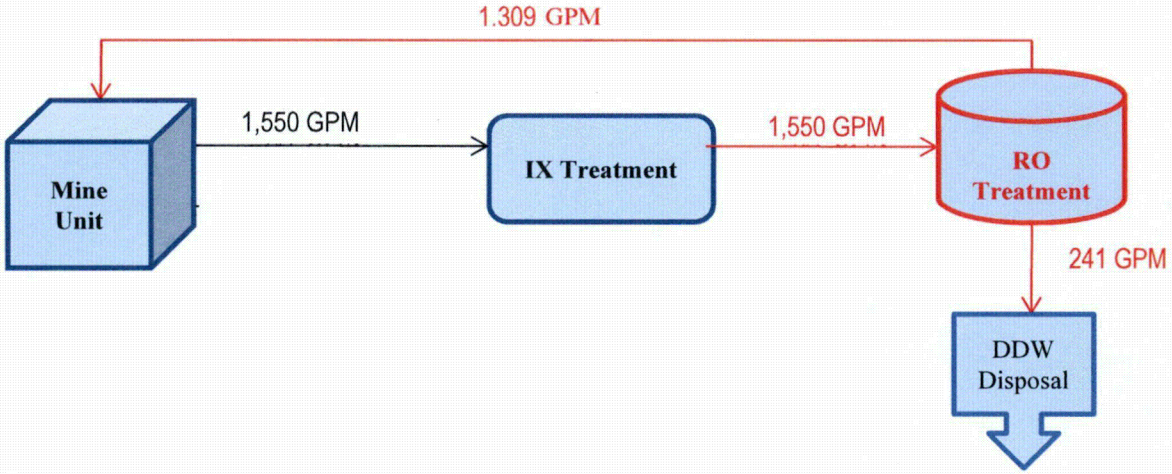
K:\CBR_Projects\CO001636_Marsland\3_IMAGES\Illustrator\TR Figure 3_1-4 Typical Wellfield Layout.ai @ 10/21/2011 BY: J. CHEN @ Boulder, CO



Water Balance Flow Example for Production



Water balance Flow Example: Restoration – IX Treatment & RO Treatment Phase

CROW BUTTE RESOURCES, INC.

FIGURE 3.1-5
WATER BALANCE FOR MARSLAND FACILITY

PROJECT: CO001636.00001 MAPPED BY: JC CHECKED BY: JEC

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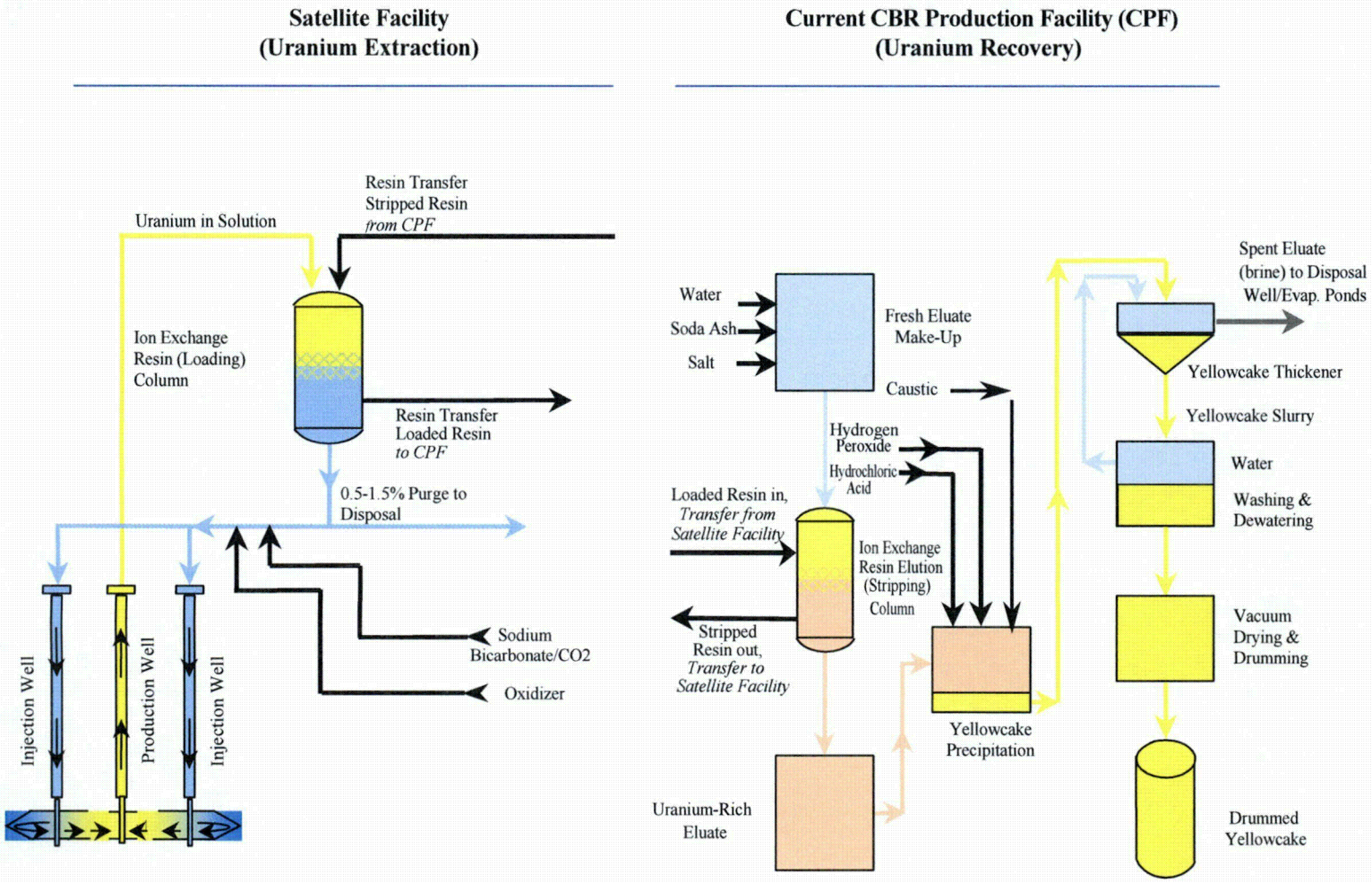
K:\CBR_Projects\CO001636_Marsland\3_IMAGES\Illustrator\TR Figure 3_1-5 WaterBalance.ai @ 04/06/2012 BY: J.CHEN @ Boulder, CO



CROW BUTTE RESOURCES, INC.

FIGURE 3.1-6
MARSLAND EXPANSION AREA
SATELLITE FACILITY AND
CURRENT CBR PRODUCTION FACILITY
PROCESS FLOW DIAGRAM

PROJECT: CO001636.00001 MAPPED BY: JC CHECKED BY: JEC

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K:\CBR_Projects\CO001636_Marsland\3_IMAGES\Illustrator\TR Figure 3_6-1 Process Flow Diagram.ai @ 10/21/2011 BY: J.CHEN @ Boulder, CO

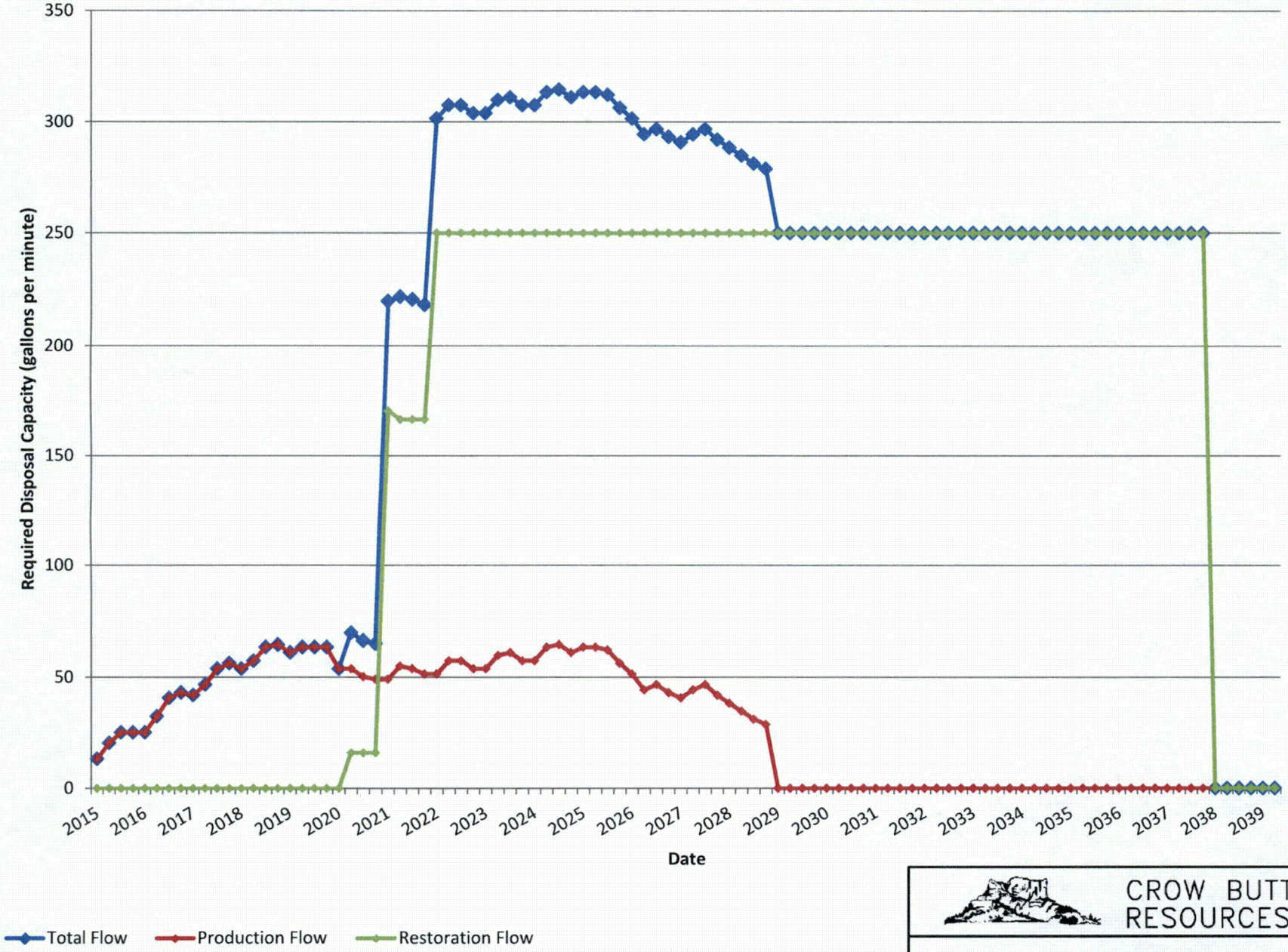

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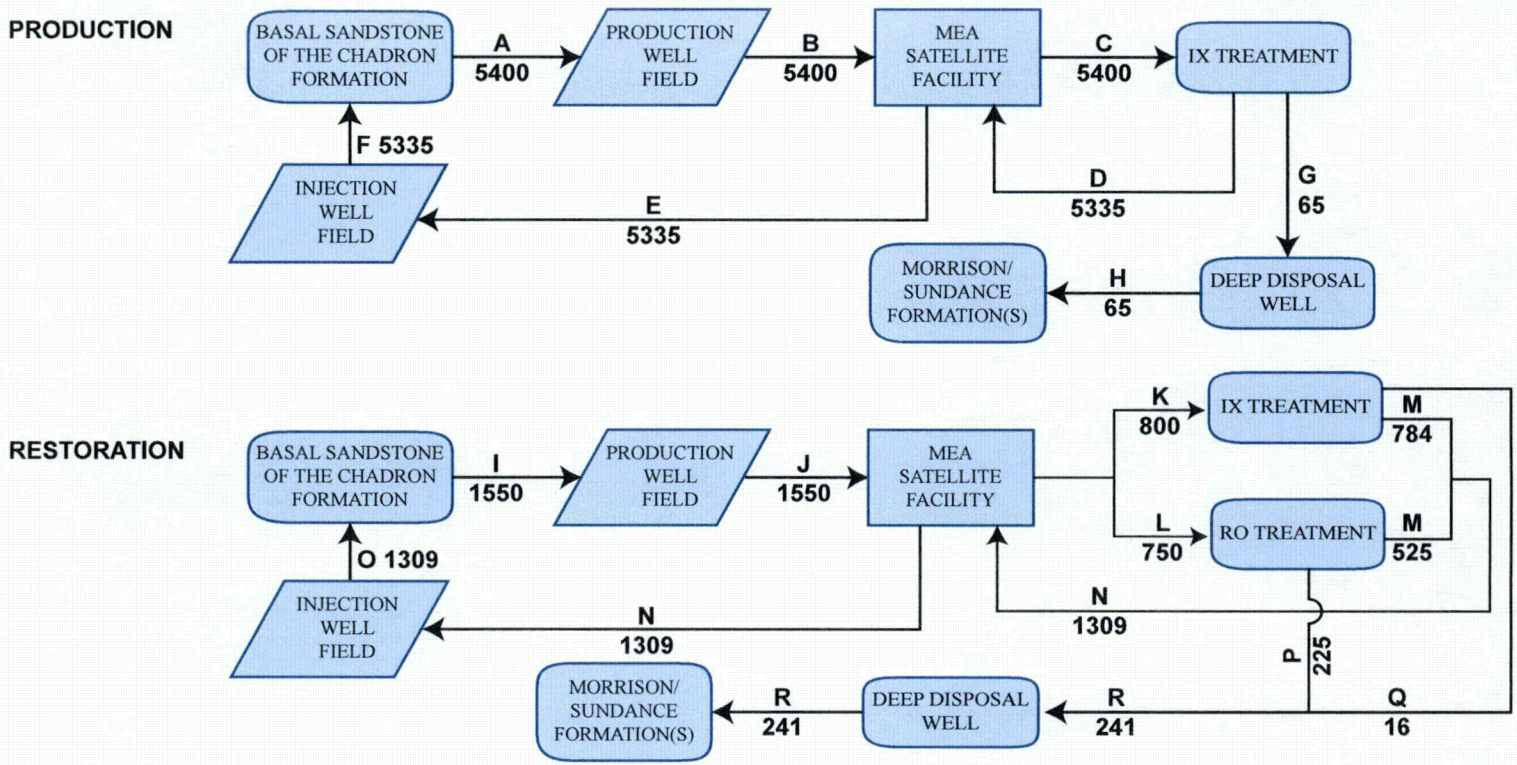
FIGURE 3.1-7
DISPOSAL WATER BALANCE
MARSLAND EXPANSION AREA

K:\CBR_Projects\CO001636_Marsland\3_IMAGES\Illustrator\TR Figure 3_1-7 Disposal Water Balance.ai @ 06/11/2013



Stream ID	Description
A	Extraction from Basal Sandstone of the Chadron Formation 850-1,200 ft bgs
B	Extraction solution piped from production well field to satellite facility
C	Sent for IX Treatment
D	Recovered solution
E	Recovered solution piped from satellite facility to injection well field
F	Injection into Basal Sandstone of the Chadron Formation
G	Production bleed (1.2%) sent to deep disposal well
H	Injection into Morrison/Sundance Formations 3,400-3,700 ft bgs
I	Extraction from Basal Sandstone of the Chadron Formation
J	Extraction solution piped from production well field to satellite facility
K	Sent for IX Treatment
L	Sent for RO Treatment
M	Recovered solution
N	Recovered solution piped from satellite facility to injection well field
O	Injection into Basal Sandstone of the Chadron Formation
P	RO Bleed sent to deep disposal well
Q	IX Bleed sent to deep disposal well
R	Injection into Morrison/Sundance Formations

NOTES:
1. Balanced for maximum flow rates projected to occur during 3Q 2024.
2. All flow rates are in gallons per minute.

ABBREVIATIONS:

IX Ion Exchange
RO Reverse Osmosis
MEA Marsland Expansion Area

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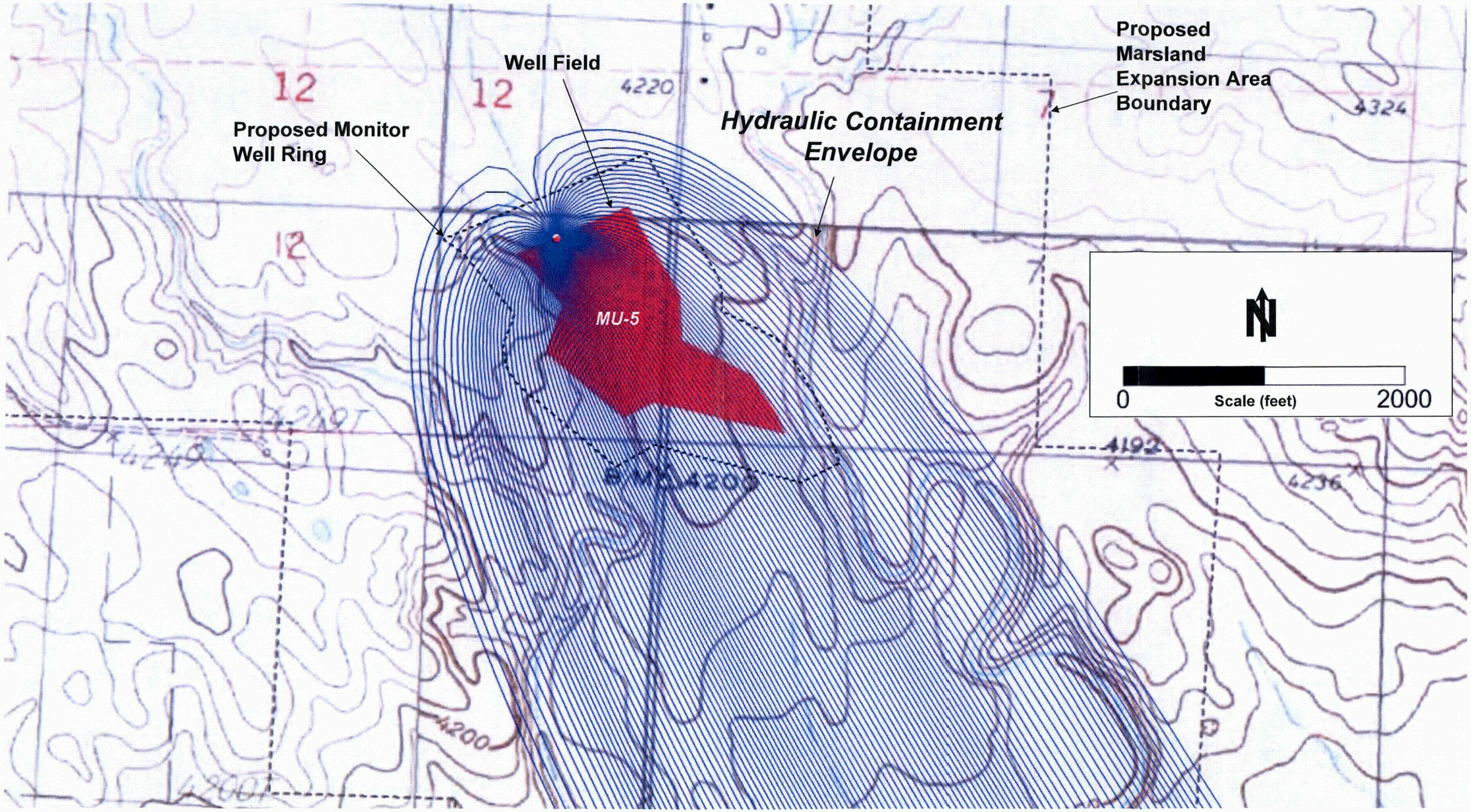
FIGURE 3.1-8
MARSLAND EXPANSION AREA
WATER BALANCE AND
PROCESS FLOW DIAGRAM

September 2015

K:\CBR_Projects\CO001636_Marsland\3_IMAGES\Illustrator\MEA_WaterBalance_v3.ai @ 01/16/2015



Source: AQUI-VER, INC., 5/30/2013

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FIGURE 3.1-9
MARSLAND HYDRAULIC CONTAINMENT ANALYSES

PROJECT: CO001636 MAPPED BY: JC CHECKED BY: JEC

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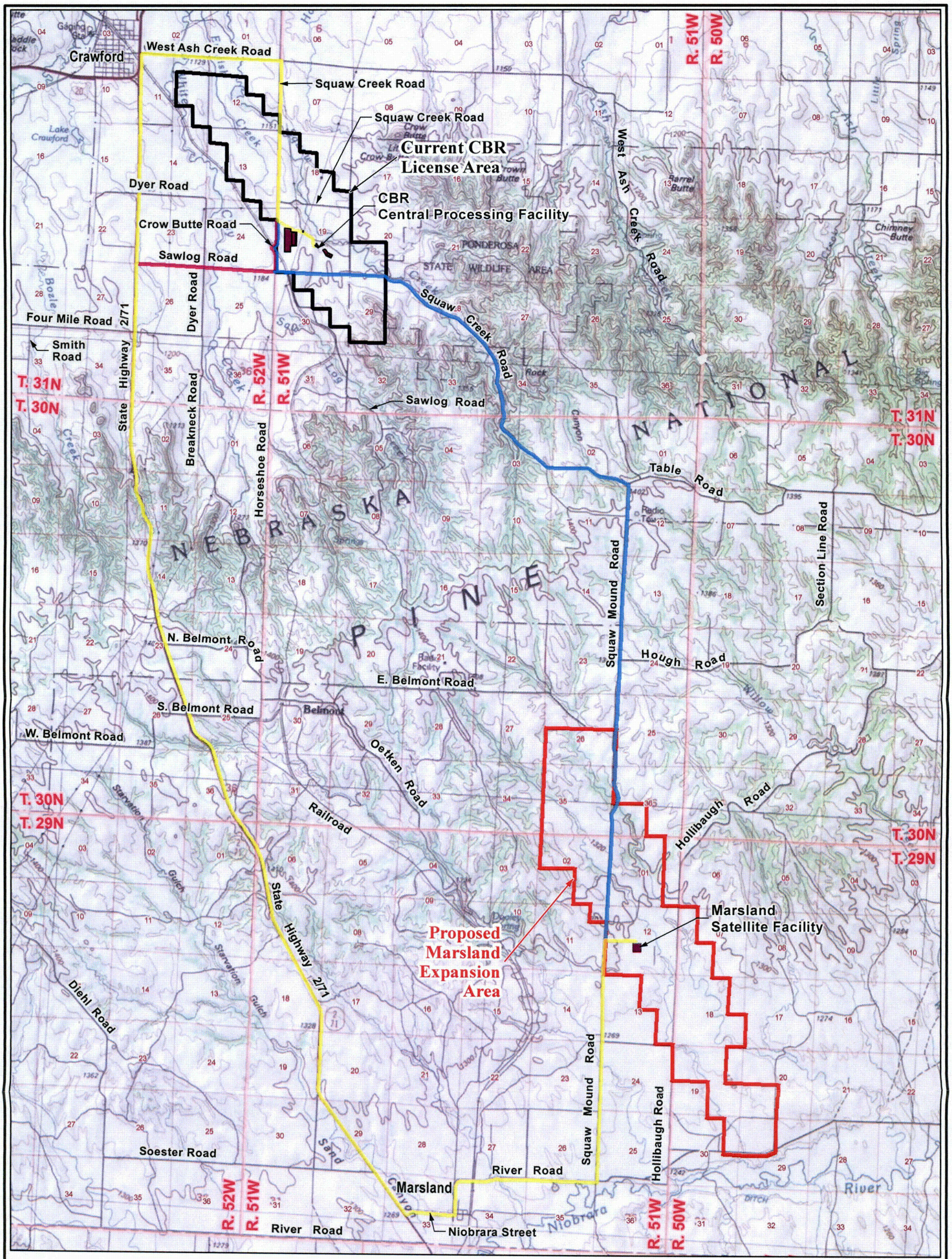
K:\CBR_Projects\CO001636_Marsland\3_IMAGES\Illustrator\TR Figure 3_1-9 Marsland Hydraulic Containment Analyses.ai @ 12/02/2013



LEGEND

- Primary Access Route
- Alternative Route A
- Alternative Route B

N

0 3,500 7,000

Feet

PROJECTION: NAD1927, STATE PLANE NEBRASKA NORTH, FIPS 2601
SOURCES: USA TOPO MAPS, SERVICED BY ESRI ARCGIS ONLINE

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FIGURE 4.2-1
PROPOSED ACCESS ROUTE BETWEEN MARSLAND EXPANSION AREA SATELLITE FACILITY AND CROW BUTTE CENTRAL PROCESSING FACILITY

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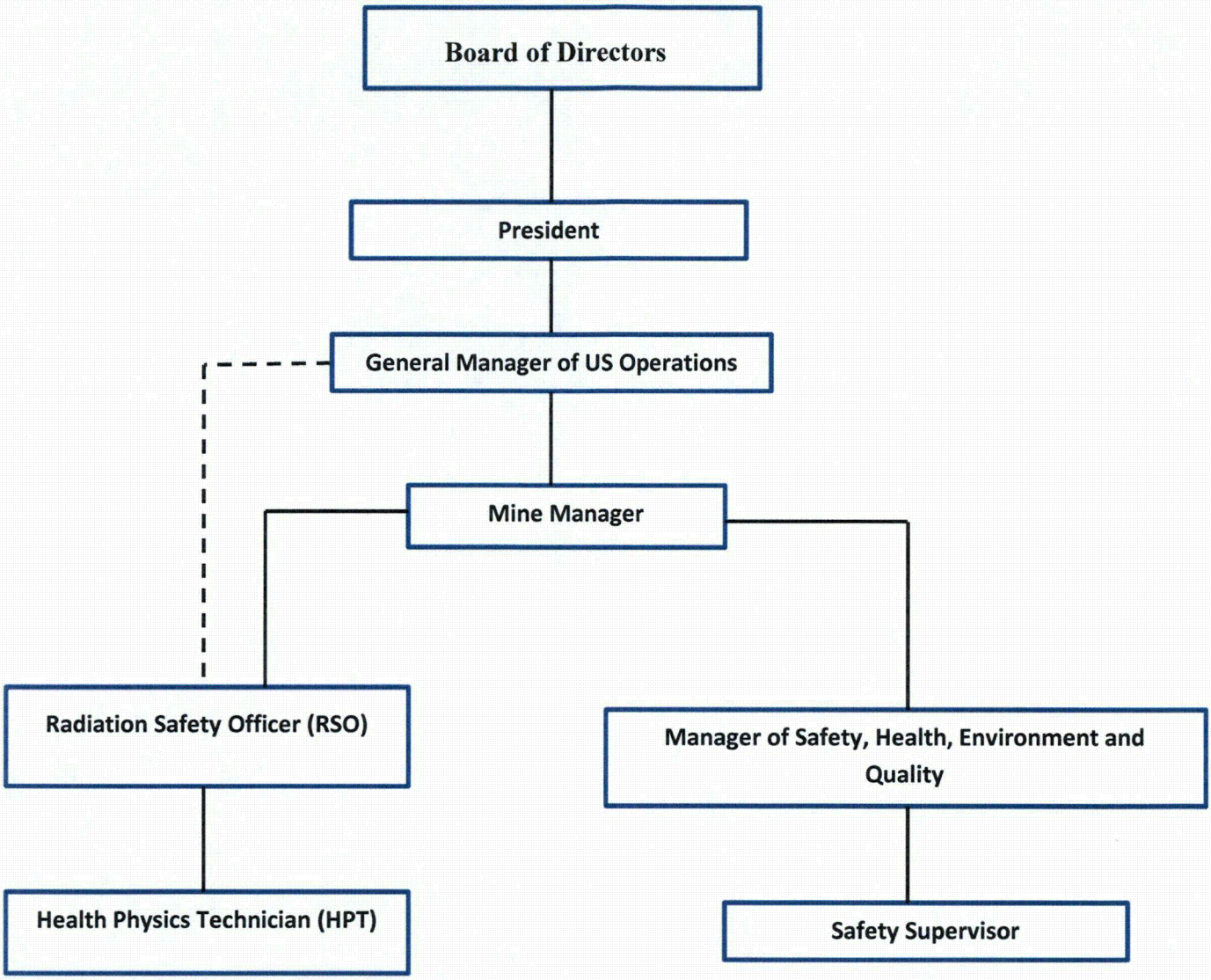
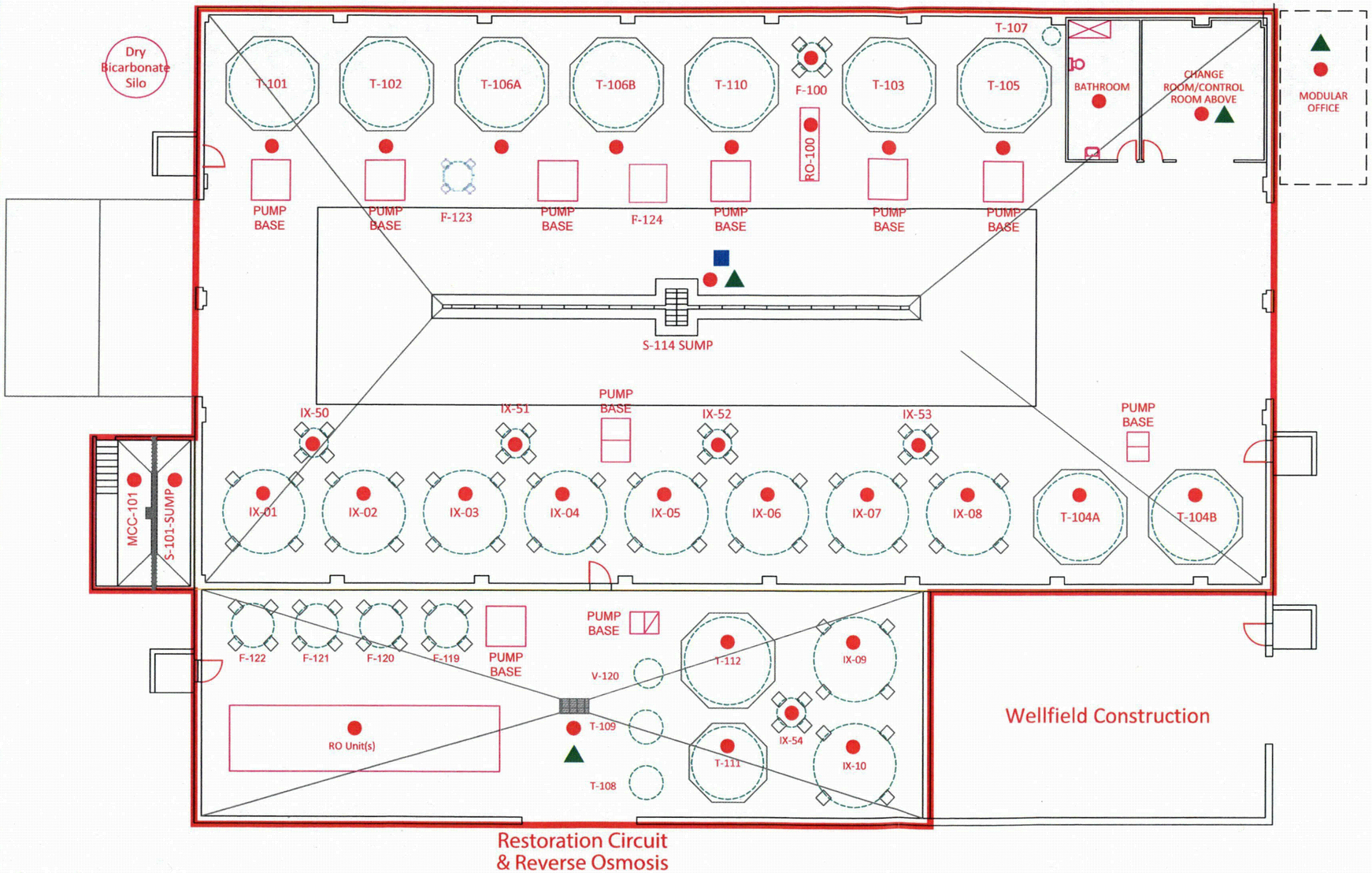
Figure 5.1-1: Crow Butte Resources Organizational Chart





Tank (# Each)	Description
IX-01 through 08	Ion Exchange
IX-50 through 54	Ion Exchange Resin Trap
IX-09 through 10	Restoration IX Column
T-101	Bicarbonate Mix
T-102	Bicarbonate Storage
T-103	Reverse Osmosis Feed
T-104A	Resin Transfer
T-104B	Resin Transfer
T-105	Water supply/Make-up Water
T-106A	Wastewater
T-106B	Wastewater
T-107	Water Pressure Tank
T-108	Sodium Sulfide Day
T-109	Sodium Sulfide Mix
T-110	Well Work Over Fluid
T-111	RO Cleaning Tank
T-112	Permeate Tank
F-119 through 122	RO Filter
V-120	Degaser
F-100	Sock filters
MCC-101	Injection pumps on trunk lines to wellfield
RO-100	RO Pump Base
F-123	Filter
F-124	Belt Filter

Legend:

- Gamma Survey Location
- Radon Testing Location
- Airborne Particulate Survey Location
- Restricted Area

Notes:

1. Illustration only, not to scale.
2. Adapted from Cameco Resources, 2011.

September 2015

CROW BUTTE RESOURCES, INC.

FIGURE 5.7-2
PROPOSED OPERATIONAL RADIOLOGICAL MONITORING LOCATIONS FOR SATELLITE FACILITY

PROJECT: CO001636 MAPPED BY: JC CHECKED BY: JEC

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K:\CBR_Projects\CO001636_Marsland\3_IMAGES\Illustrator\ER Figure 1_1-8 MEA SAT Building Layout_Revised.ai @ 08/08/2013 By: J.Chen

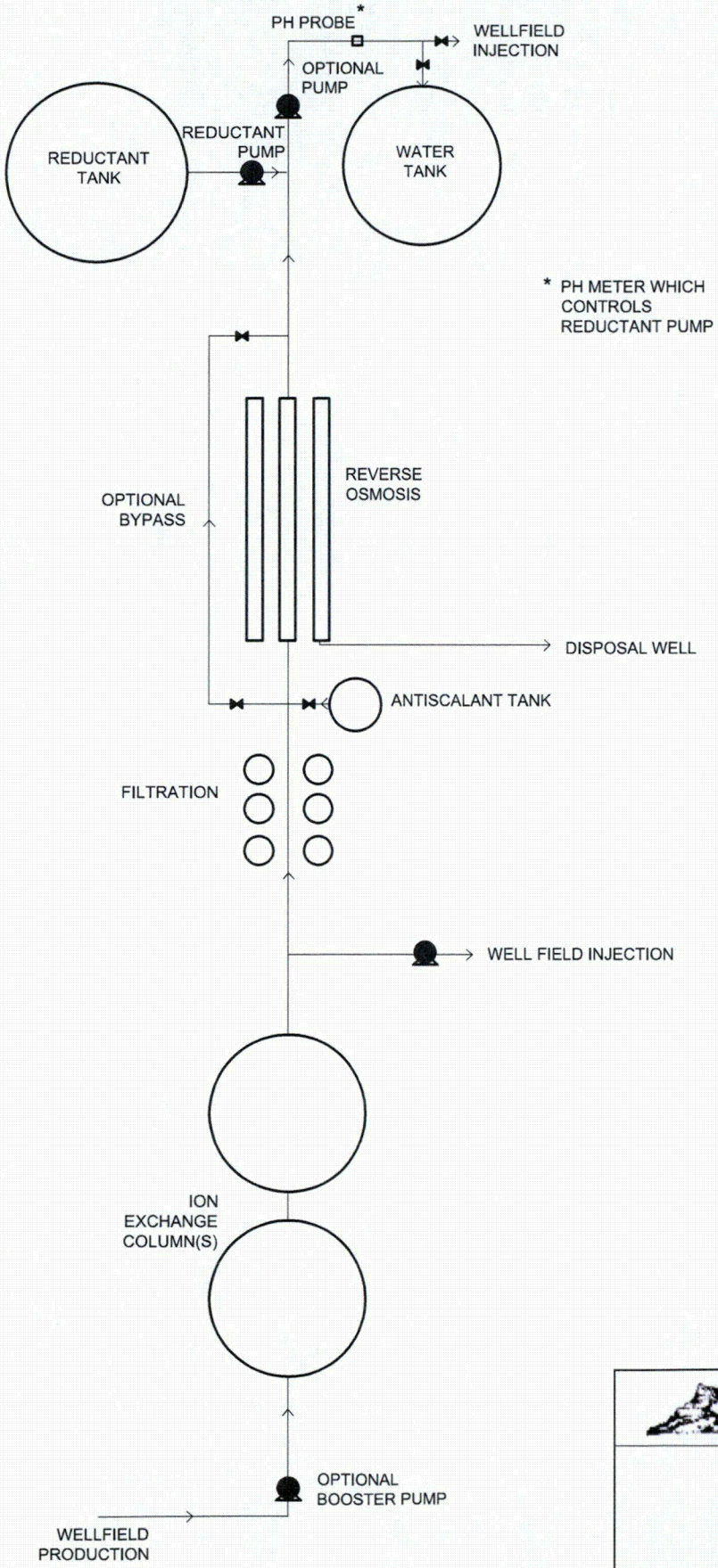

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FIGURE 6.1-1
RESTORATION PROCESS FLOW DIAGRAM

PROJECT: CO001396.02 MAPPED BY: JC CHECKED BY: JEC

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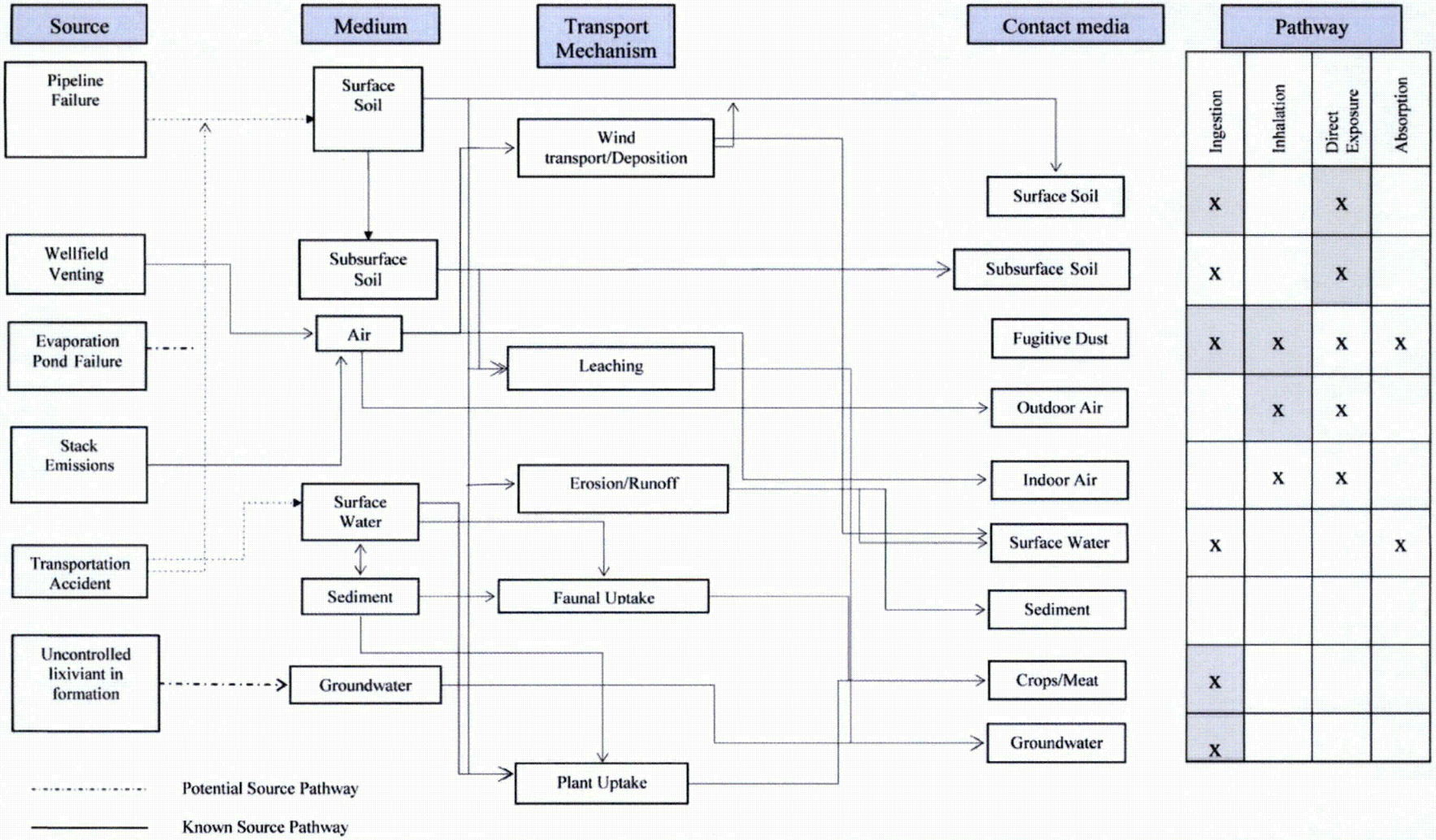
PATH: K:\CBR_Proje...001636_Marsland\1_ACAD\RestorationProcessRevised.dwg LAYOUT: TR DATE/TIME: 3/16/2012 2:24 AM



Note: X depicts the pathway that outlines the route which radiological emissions may follow to reach the public.
Gray shading depicts predominant pathway.

CROW BUTTE RESOURCES, INC.

FIGURE 7.3-1
MARSLAND
HUMAN EXPOSURE PATHWAYS FOR KNOWN AND POTENTIAL SOURCES OF RADIOLOGICAL EMISSIONS

PROJECT: CO001396.00001 MAPPED BY: JC CHECKED BY: LW

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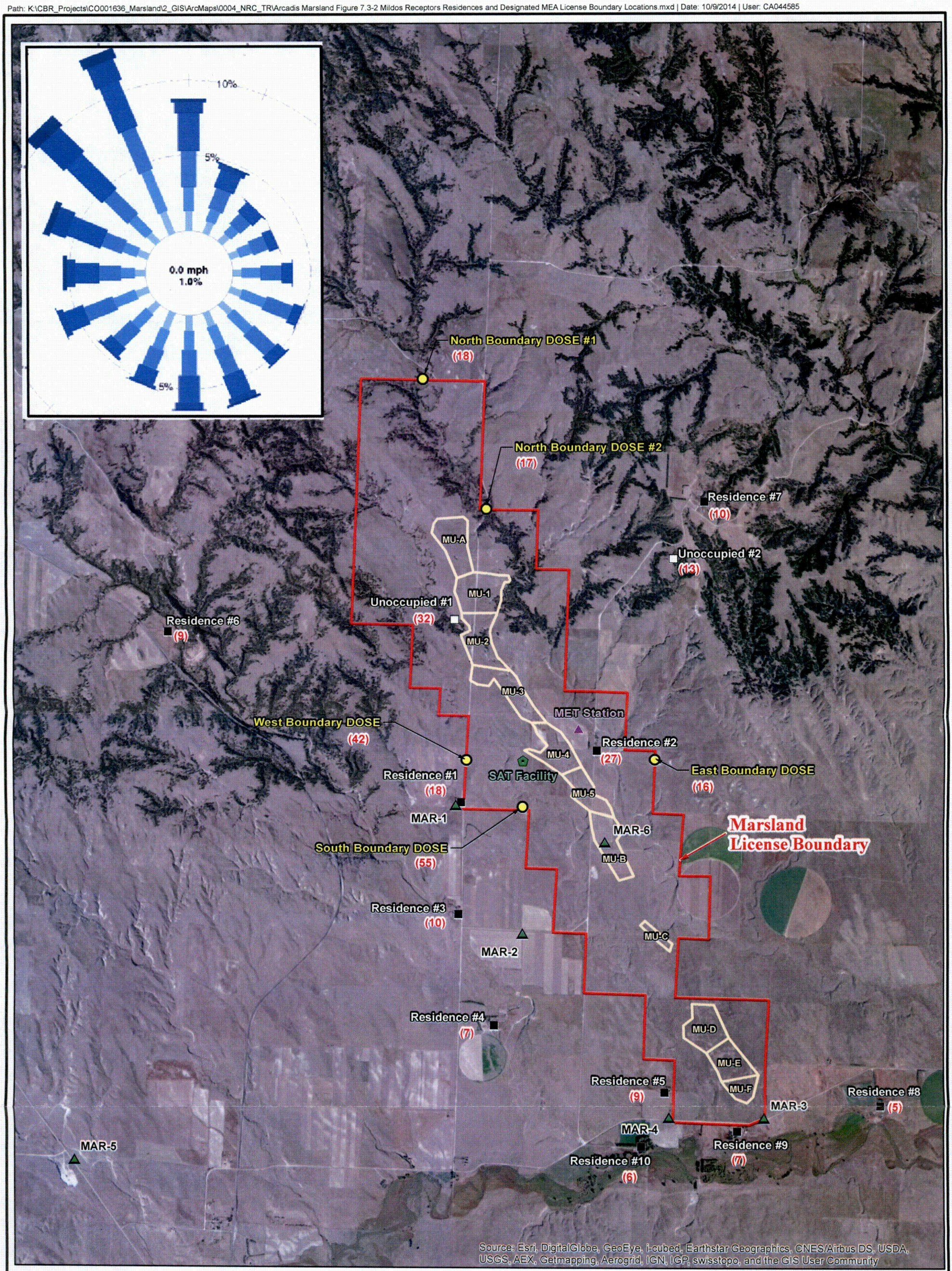
K:\CBR_Projects\CO001636_Marsland\3_IMAGES\Illustrator\TR Fig_7_3-1 Human Exposure Pathways.ai @ 01/08/2010

Path: K:\CBR_Projects\CO001636_Marsland\2_GIS\ArcMaps\0004_NRC_TR\Arcadis Marsland Figure 7.3-2 Mildos Receptors Residences and Designated MEA License Boundary Locations.mxd | Date: 10/9/2014 | User: CA044585



LEGEND

- Air Sample Station
- Boundary Dose Point
- Residence (Occupiable)
- Unoccupied Structure (Unoccupiable)
- Proposed Satellite Plant Location
- MEA Met Station
- Project Boundary
- Mine Unit
- (10) MEA Mildos Estimated Radiation Dose Rate (in mrem/yr)

MEA = Marsland Expansion Area
mrem = millirems per year

Map Updated on: 10/9/2014

N

0 2,000 4,000
Feet

PROJECTION: NAD1983, STATE PLANE NEBRASKA NORTH, FIPS 2600
SOURCES: USDA NAIP IMAGERY 2010

CROW BUTTE RESOURCES, INC.

FIGURE 7.3-2
MILDOS RECEPTORS
RESIDENCES AND DESIGNATED MEA
LICENSE BOUNDARY LOCATIONS

PROJECT: CO001636 MAPPED BY: JC CHECKED BY: MS

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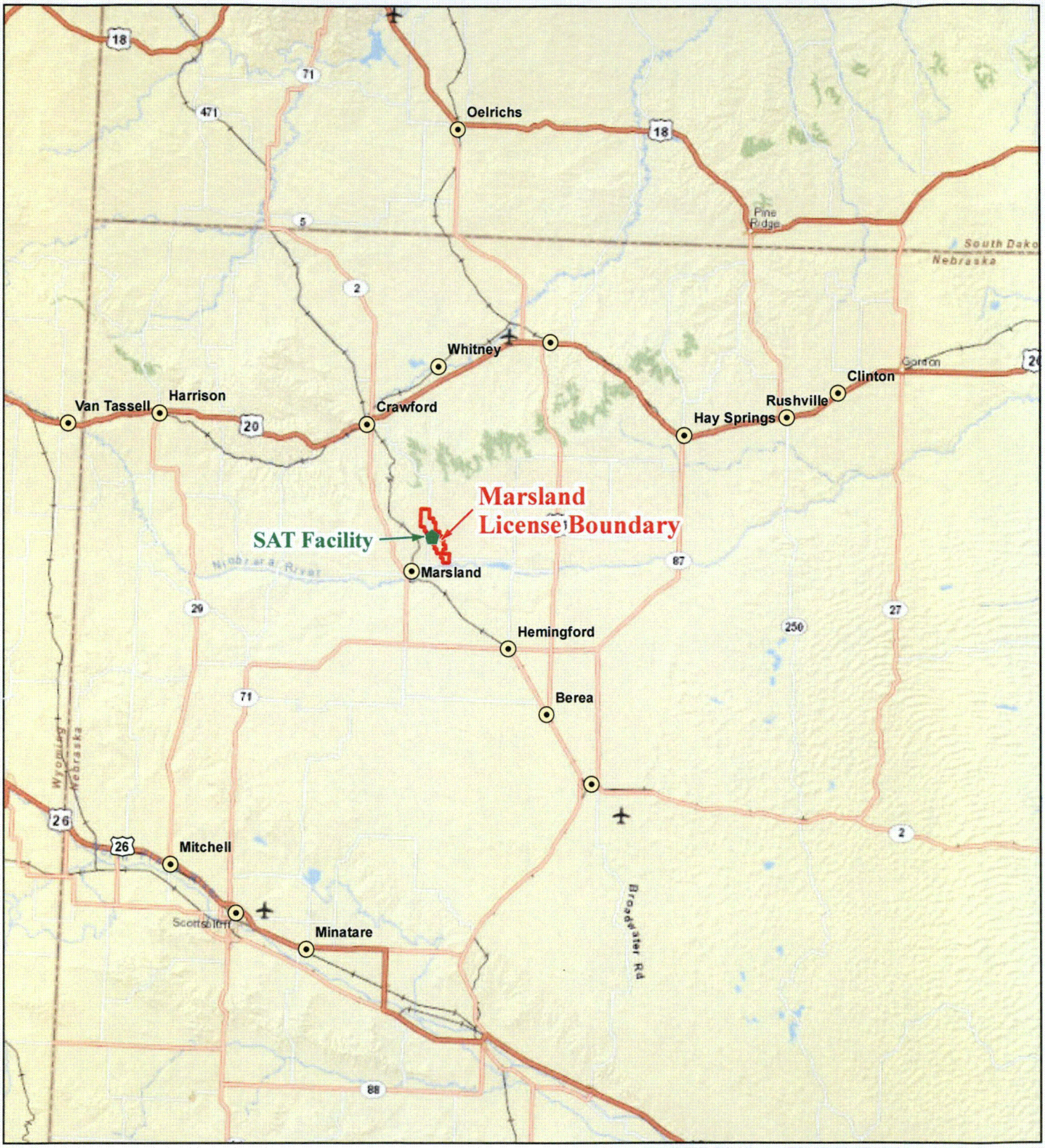

N

0 7.5 15

Miles

PROJECTION: NAD 1927,
STATE PLANE NEBRASKA NORTH, FIPS 2601
SOURCES: WORLD STREET MAP SERVICED
BY ESRI ARCGIS ONLINE

CROW BUTTE RESOURCES, INC.

FIGURE 7.3-3
MILDOS RECEPTORS
CITIES AND TOWNS IN REGION
AROUND MEA

PROJECT: CO001636 MAPPED BY: BB CHECKED BY: J. CEARLEY

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