UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

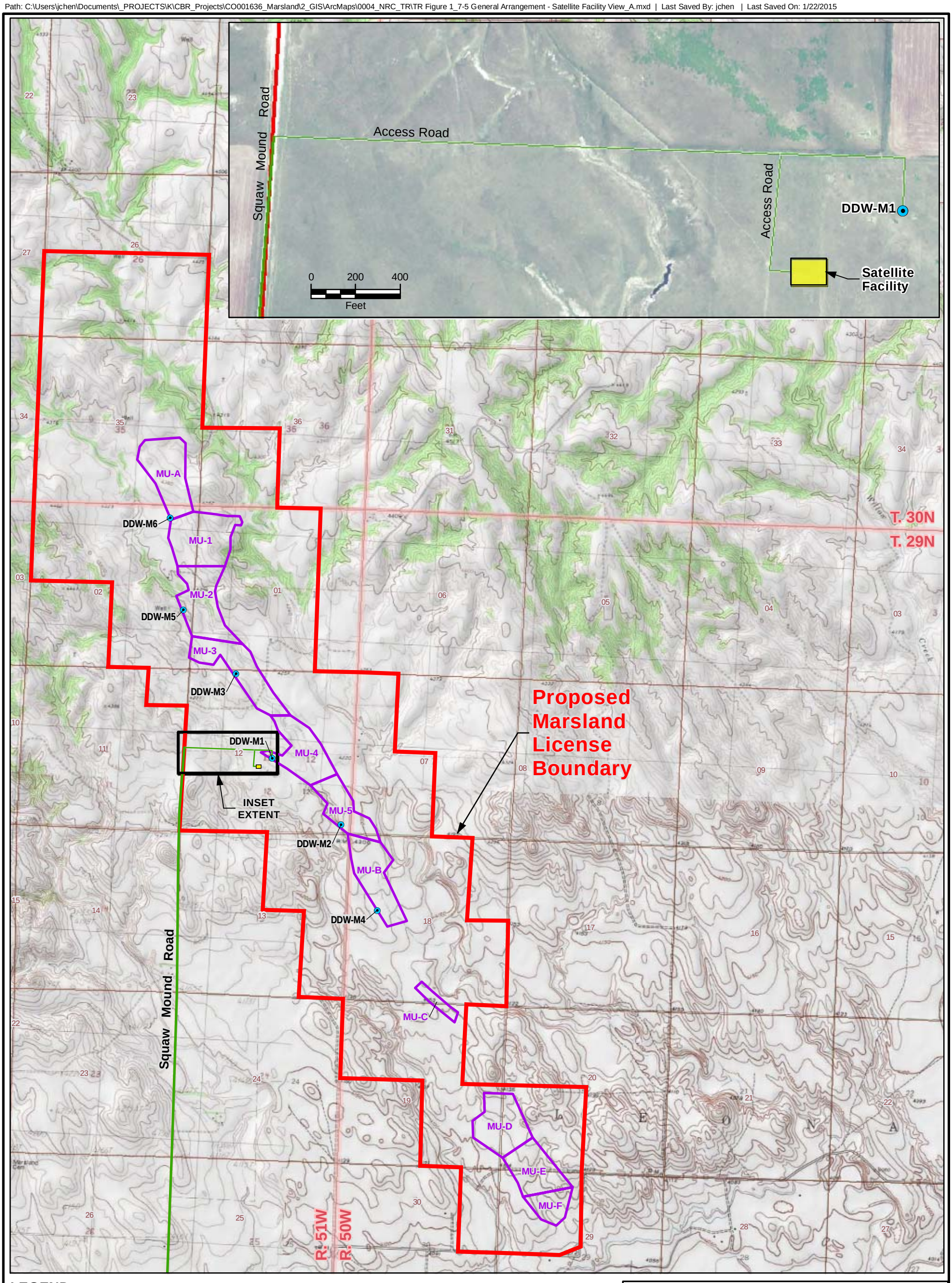
In the Matter of CROW BUTTE RESOURCES, INC. (Marsland Expansion Area)	Docket No. 40-8943-MLA-2 ASLBP No. 13-926-01-MLA-BD01

Hearing Exhibit

Exhibit Number: CBR027

Exhibit Title: Deep Disposal Well Location Information

Path: C:\Users\jchen\Documents_PROJECTS\K\CBR_Projects\CO001636_Marsland\2_GIS\ArcMaps\0004_NRC_TR\TR Figure 1_7-5 General Arrangement - Satellite Facility View_A.mxd | Last Saved By: jchen | Last Saved On: 1/22/2015



LEGEND

- Proposed Deep Disposal Well
- Squaw Mound Road
- Access Road
- Satellite Facility (Restricted Area)
- Mine Unit
- Proposed Marsland License Boundary

N

0 1,500 3,000

Feet

PROJECTION: NAD 1983, STATE PLANE NEBRASKA NORTH, FIPS 2600
SOURCES: US TOPO MAPS, SERVICED BY ESRI ARCGIS ONLINE

CROW BUTTE RESOURCES, INC.

FIGURE 1.7-5
GENERAL ARRANGEMENT
SATELLITE FACILITY VIEW

PROJECT: CO001636 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

A — **A'**

26045210360000	26045050210000	26045050120000	26045210040000	26045210080000	26013052030000	26013050490000
TRUE-STATE 34-16	*SOESTER 1*	*ROYAL 1*	*HOLLIBAUGH 1*	*SMITH 1-A*	*MONAHAN CATTLE CO 1*	*HOVORKE 1*

<5.10MI> <3.53MI> <3.72MI> <3.60MI> <6.16MI> <3.34MI>

Subsea Depth(ft) 4800 3800 2800 1800 800 -200 -1200

Dual Laterlog — INL — Electrical Log — INL — Electrical Log — INL — Induction Electrical Log — INL — Acoustilog — Ground Surface — Induction Electrical Log — INL — Electrical Log — INL

DDW-M1
PROJECTED LOCATION

Chadron
Basal Chadron (USDW)
Pierre Shale
Niobrara
Carlile
Greenhorn
Graneros
Skull Creek Shale
Dakota
Morrison
Sundance
Satanka Shale

Proposed Pine Ridge Fault
Proposed Niobrara River Fault

NDE
INL

NDE: Not deep enough
INL: Interval not logged

0 6500 13000 19500 26000 32500 39000 45500 52000 58500 65000 71500 78000 84500 91000 97500 104000 110500 117000 123500

Crow Butte Resources, Inc.

Figure F7
Geologic Cross Section
A – A'

Marsland Expansion Area - Class I UIC Area Permit Application

Scale: See Bar Scale	Date: September 2015	
_MEA_CIA_Figure F7_15.pdf	By: KRS	Checked: HD

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5935 South Zang Street, Suite 200
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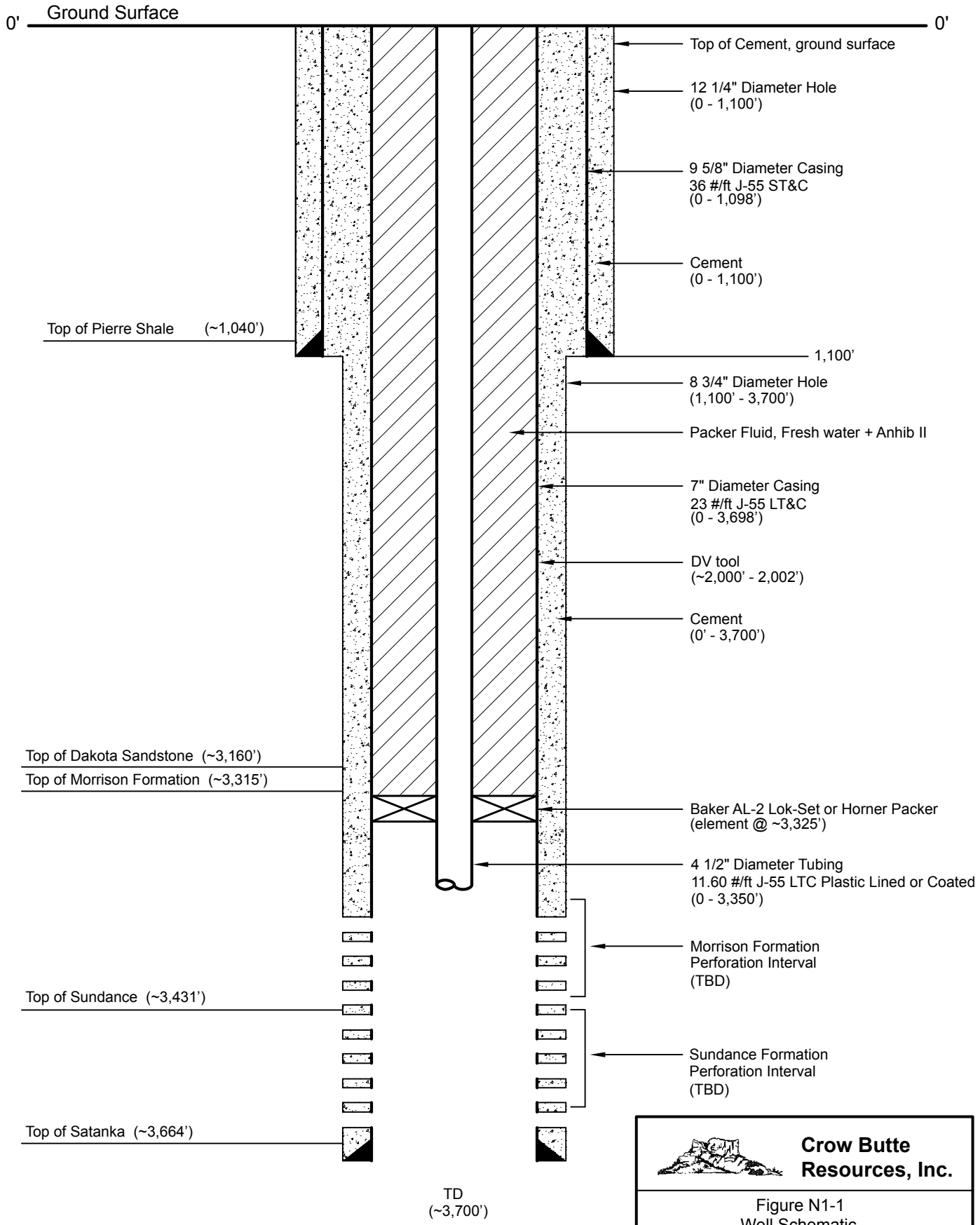

Note:

Approximate depths in feet below ground surface based on estimated geologic tops at proposed well DDW-M1.

NOT TO SCALE

Crow Butte Resources, Inc.

Figure N1-1
Well Schematic
Proposed MEA Class 1 Well
Marsland Expansion Area - Class I UIC Area Permit Application

Scale: NTS	Date: September 2014	
_MEA_CIA_Figure N1-1.pdf	By: KRS	Checked: HD

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