



STATE OF COLORADO  
STATE BOARD OF LAND COMMISSIONERS

**Second Amendment to Surface Use Agreement No. OM-110937**

**THIS SECOND AMENDMENT** (“Amendment”) to Surface Use Agreement No. 110937 dated February 2, 2017, collectively referred to as the (“Agreement”) is made this 11<sup>th</sup> day of July, 2022, between the State of Colorado, acting by and through the STATE BOARD OF LAND COMMISSIONERS herein referred to as the “State Land Board”, whose address is 1127 Sherman Street, Suite 300, Denver CO 80203 and Enerplus Resources (USA) Corporation, hereinafter referred to as the “Operator”, whose mailing address is 950 17<sup>th</sup> Street, Denver, CO 80202:

**WITNESSETH**

**WHEREAS**, the State Land Board and Operator entered into the Agreement on February 2, 2017;

**WHEREAS**, the State Land Board and Operator Amended the Agreement on November 7th, 2018;

**WHEREAS**, the Operator has applied to the State Land Board pursuant to Paragraph 16 of the Agreement to amend the existing Agreement. It is the Operator’s desire with this Amendment to increase the proposed number of wells drilled from this pad.

**NOW THEREFORE**, the State Land Board and the Operator, for good and valuable consideration, the receipt of which is hereby acknowledged, stipulate and agree as follows:

- The Exhibits attached labeled Second Amendment - Exhibit A, Second Amendment - Exhibit B, and Second Amendment - Exhibit C are herein incorporated to the Agreement and are intended to replace all prior Exhibits.
- The State Land Board approves the change in wellbores as described in Second Amendment - Exhibit A.

**AND FURTHER**, this Amendment to the Agreement, including all recitals contained herein, shall extend to and be binding upon both the State Land Board and the Operator, and their respective heirs, executors, administrators, successors, agents and assigns. The State Land Board and the Operator do hereby ratify, adopt, and confirm all of the terms and provisions of the Agreement, as amended herein, and the State Land Board does hereby grant, lease, demise and let, to Operator, the lands covered by said Agreement as amended herein, upon and subject to all of the terms and provisions set out in the Agreement, as amended hereby. Except as stated in this Amendment, the Agreement shall continue in full force and effect as to all of its other terms and provisions.

IN WITNESS WHEREOF, the parties hereto have executed the foregoing, the same to be effective as of the day and year first above written.

Dated this 13 day of July, 2022

Operator: [Signature]  
Signature

Beau Fritz  
Printed Name [Signature]

By: US Land Manager  
Position

of Enerplus Resources (USA) Corporation  
Entity

State of Colorado )  
County of Denver ) ACKNOWLEDGEMENT

The foregoing instrument was acknowledged before me this July 13, 2022 by Beau Fritz of Enerplus Resources (USA) Corporation, a Colorado Limited Liability Company, on behalf of the Limited Liability Company.

Signature: [Signature]  
Notary

Date: July 13, 2022

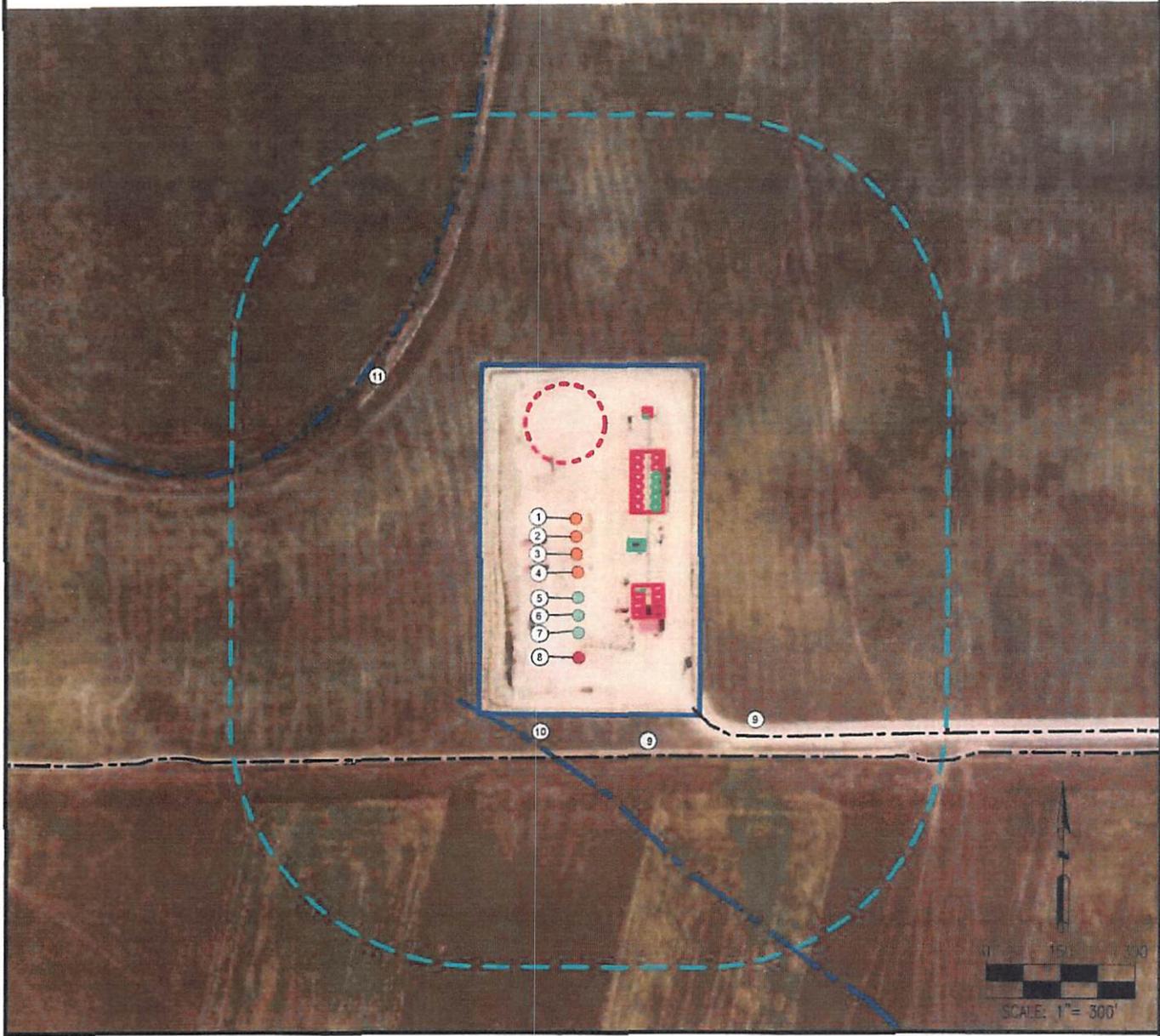
Dated this 13 day of July, 2022

(Seal) **YASUKO SHIMADA  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID 20124022883  
MY COMMISSION EXPIRES MAY 18, 2024**

STATE OF COLORADO BY THE  
STATE BOARD OF LAND COMMISSIONERS  
By: [Signature] 7/13/22  
Steve Freese, Minerals Field Specialist

# Second Amendment Exhibit A

## CANADIAN SLANG PAD LOCATION DRAWING



- |                                      |  |
|--------------------------------------|--|
| 1. BEAUFORT 8-67-36-25C              | 9. PRIVATE ROADS ARE ±319' S, ±322' SE |
| 2. HUDSON BAY 8-67-36-25N            | 10. EPHEMERAL STREAM IS ±293' SW       |
| 3. ST. LAWRENCE 8-67-36-25C          | 11. STREAM IS ±617' NW                 |
| 4. NORTHWESTERN PASSAGES 8-67-36-25C |  |
| 5. TOUQUE 8-67-36-25N                |  |
| 6. COWTOWN 8-67-36-25C               |  |
| 7. DOUBLE-DOUBLE 8-67-36-25C         |  |
| 8. MAPLE 8-67-36-25C                 |  |

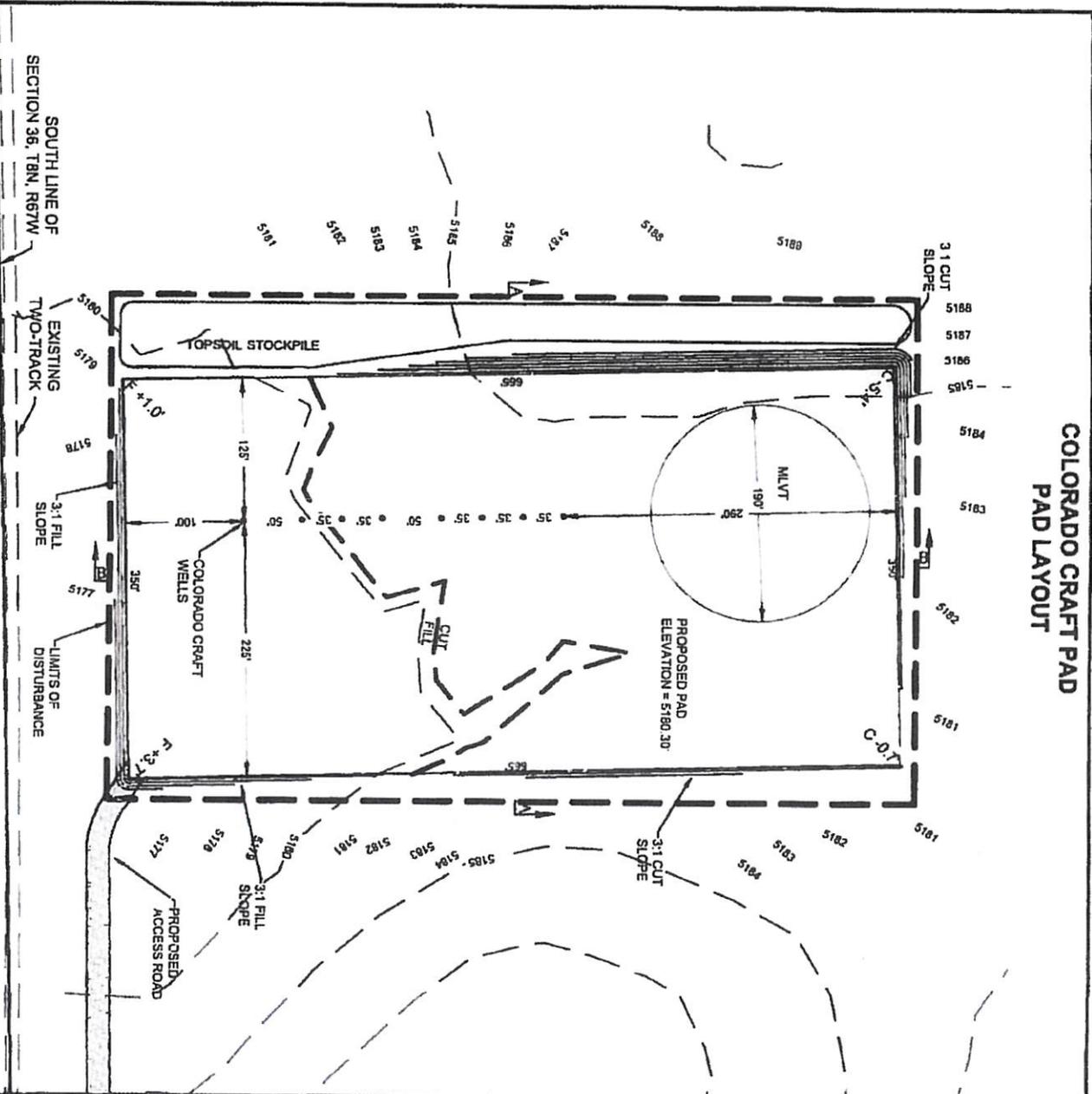
<b>LEGEND:</b> 	<b>MEASURED FROM NEAREST WELL OR FACILITY:</b> BUILDING ±2787' E BUILDING UNIT ±3606' SW PUBLIC ROAD (WELD COUNTY ROAD 25) ±3211' SE PROPERTY LINE (LINDA D BLEHM TRUST) ±308' S UTILITY (POWERLINE) ±2276' SE RAILROAD ±5280' SW	<b>REFERENCE LOCATION</b> **HUDSON BAY 8-67-36-25N** LAT: 40 611707' LONG: -104.843956' ELEVATION: 5181' 446' FSL & 1902' FWL PDOP: 1.5 GPS OPERATOR: AARON RIVERA
	<b>MEASURED FROM NEAREST EDGE OF DISTURBANCE:</b> SURFACE WATER (INTERMITTENT STREAM) ±0' SW	<b>DISTURBANCE ACREAGE:</b> 7.07 ACRES DRILLING OPERATIONS 3.54 ACRES INTERIM RECLAIM

<b>DISCLAIMER</b> THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.	DATA SOURCE AERIAL IMAGERY: NAIP 2017 WATER WELLS: COLORADO DWR NHD USGS PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY ASCENT	<b>MEASURED FROM NEAREST EDGE OF DISTURBANCE:</b> WATER WELL ±1611' SW SWL = 0' PERMIT: 56387-MH RECEIPT: 005387 WATER WELL ±3024' SW SWL = 185' PERMIT: 258314 RECEIPT: 0526274	CURRENT SURFACE USE: IMPROVED PASTURE FUTURE SURFACE USE: IMPROVED PASTURE
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 7535 Hilltop Circle Denver, CO 80221 (303) 926-7128 www.ascentgeomatics.com	FIELD DATE: 04-12-17	SITE NAME: CANADIAN SLANG PAD	PREPARED FOR 
	DRAWING DATE: 08-24-18	SURFACE LOCATION: SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M. WELD COUNTY, COLORADO	

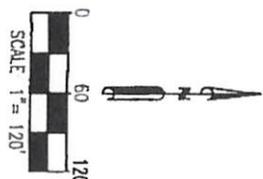
Exhibit A Doc

**COLORADO CRAFT PAD  
PAD LAYOUT**



- NOTES:**
1. COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION
  2. GEOGRAPHIC POSITIONS/COORDINATES SHOWN HEREON ARE IN NAD83 DATUM.
  3. EARTHWORK QUANTITIES ARE APPROXIMATE & FOR INFORMATION ONLY. 8" OF TOPSOIL HAS BEEN SUBTRACTED FROM EXISTING SURFACE PRIOR TO PERFORMING EARTHWORK CALCULATIONS.
  4. STOCKPILES ARE ASSUMED TO BE 10' IN HEIGHT WITH 2:1 SIDE SLOPES.

DISCLAIMER:  
THIS PLAN OF RECORD IS NOT A REPRESENTATION OF THE LAND SURFACE AND SHOULD NOT BE USED TO DETERMINE THE EXACT LOCATION OF ANY UTILITIES OR STRUCTURES. THE USER OF THIS PLAN OF RECORD SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES PRIOR TO ANY CONSTRUCTION. THE USER OF THIS PLAN OF RECORD SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES PRIOR TO ANY CONSTRUCTION.



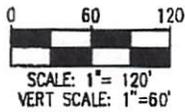
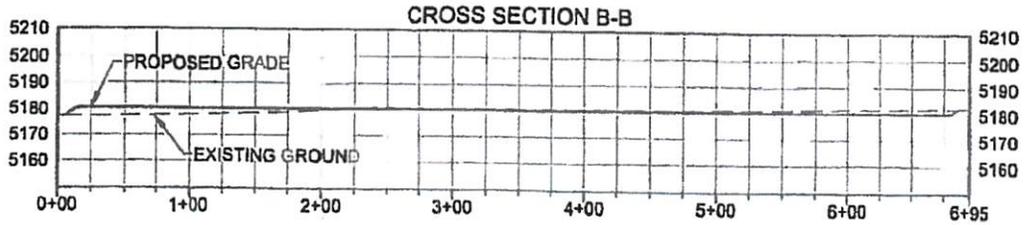
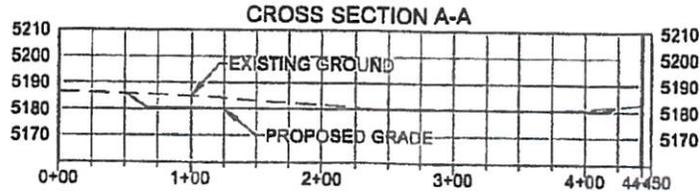
**SITE QUANTITIES**

FINISHED GRADE ELEVATION	5180.30'
TOTAL CUT FOR WELL PAD	7,810 CY
FILL FOR WELL PAD	7,100 CY
10% FILL FACTOR	710 CY
TOTAL FILL	7,810 CY
NET EXCESS MATERIAL	0 CY
TOPSOIL FROM GRADED AREA	4,820 CY
TOTAL DISTURBANCE AREA	7.1 ACRES

	FIELD DATE	12-28-16	5 TIE N/M/I	COLORADO CRAFT PAD	PREPARED FOR	
	DATE OF THIS PLAN	01-10-17	FOR THE DISTRICT	SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M., WELD COUNTY, COLORADO		
	PROJECT NO.	K&D				

Exhibit A Doc

**COLORADO CRAFT PAD  
CROSS SECTIONS**

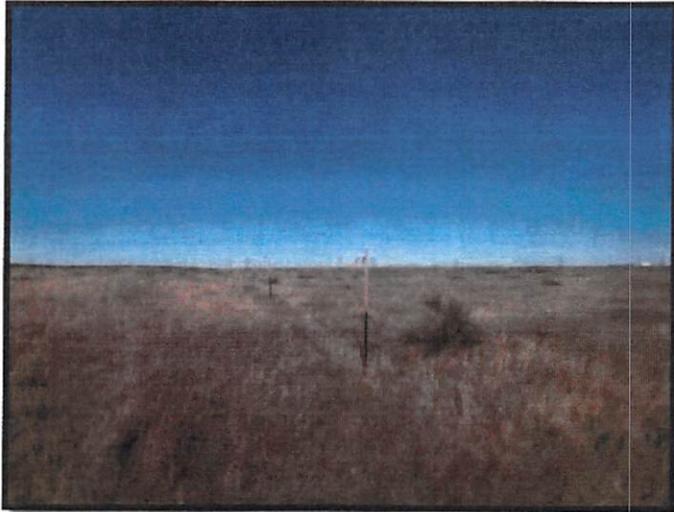


DISCLAIMER  
THIS PLAN DOES NOT REPRESENT A MEASURED LAND SURVEY AND SHOULD NOT BE  
RELIED UPON TO DETERMINE BOUNDARIES, PROPERTY INTERESTS, PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND  
MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN  
FIELD/NOVELTY VERIFIED.

**NOTE**  
1. A COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION

PREPARED BY  <small>7545 N. Meade Circle Denver, CO 80231</small>	FIELD DATE <b>12-29-16</b>	SITE NAME <b>COLORADO CRAFT PAD</b>	PREPARED FOR 
	DRAWING DATE <b>01-10-17</b>	SURFACE <b>SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M. WELD COUNTY, COLORADO</b>	
	BY <b>MDC</b>	CHECKED BY <b>KAD</b>	

# LOCATION PHOTOS



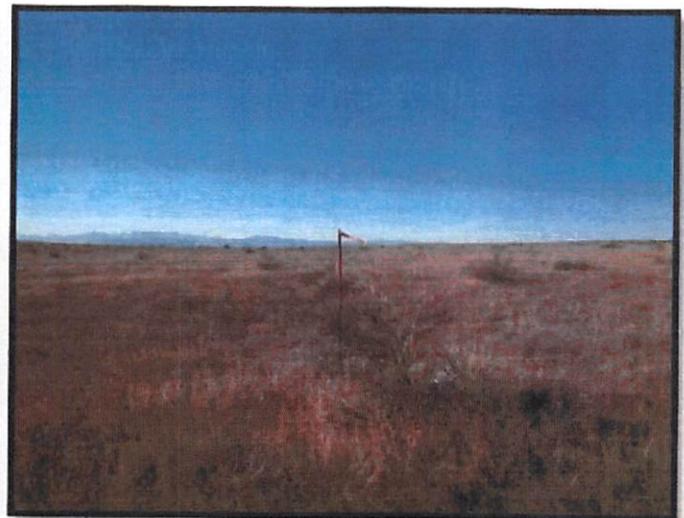
Looking North



Looking East



Looking South



Looking West

**Well Pad Name:** COLORADO CRAFT PAD

**Operator:** ENERPLUS RESOURCES (USA) CORP.

**Location:** T8N R67W S36 SESW

**Date Taken:** 12-29-2016

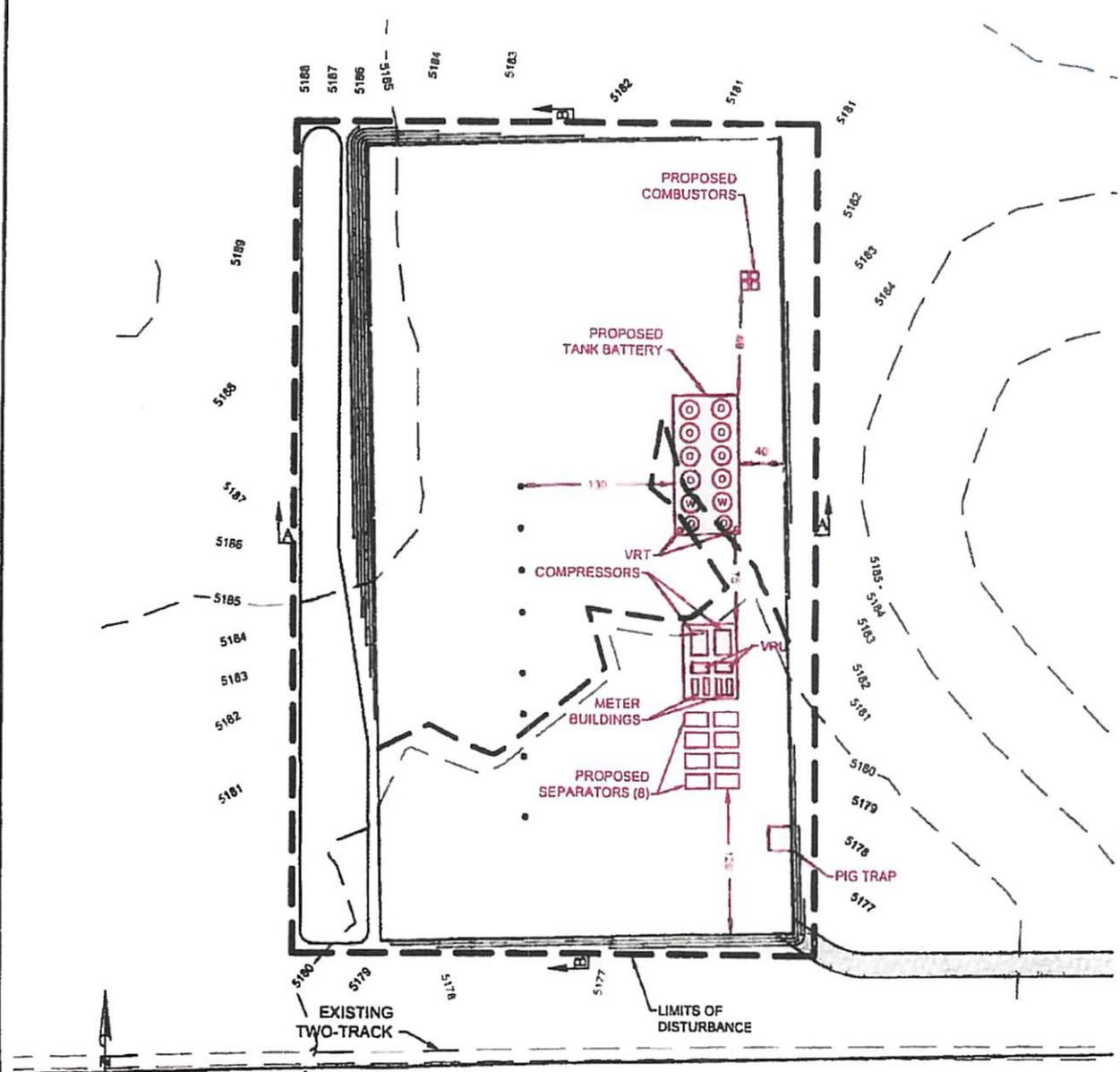
**enerPLUS**

7535 Hilltop Circle  
Denver, CO 80221  
(303) 928-7128  
[www.ascentgeomatics.com](http://www.ascentgeomatics.com)



Exhibit A Doc

**COLORADO CRAFT PAD  
PRODUCTION LAYOUT**

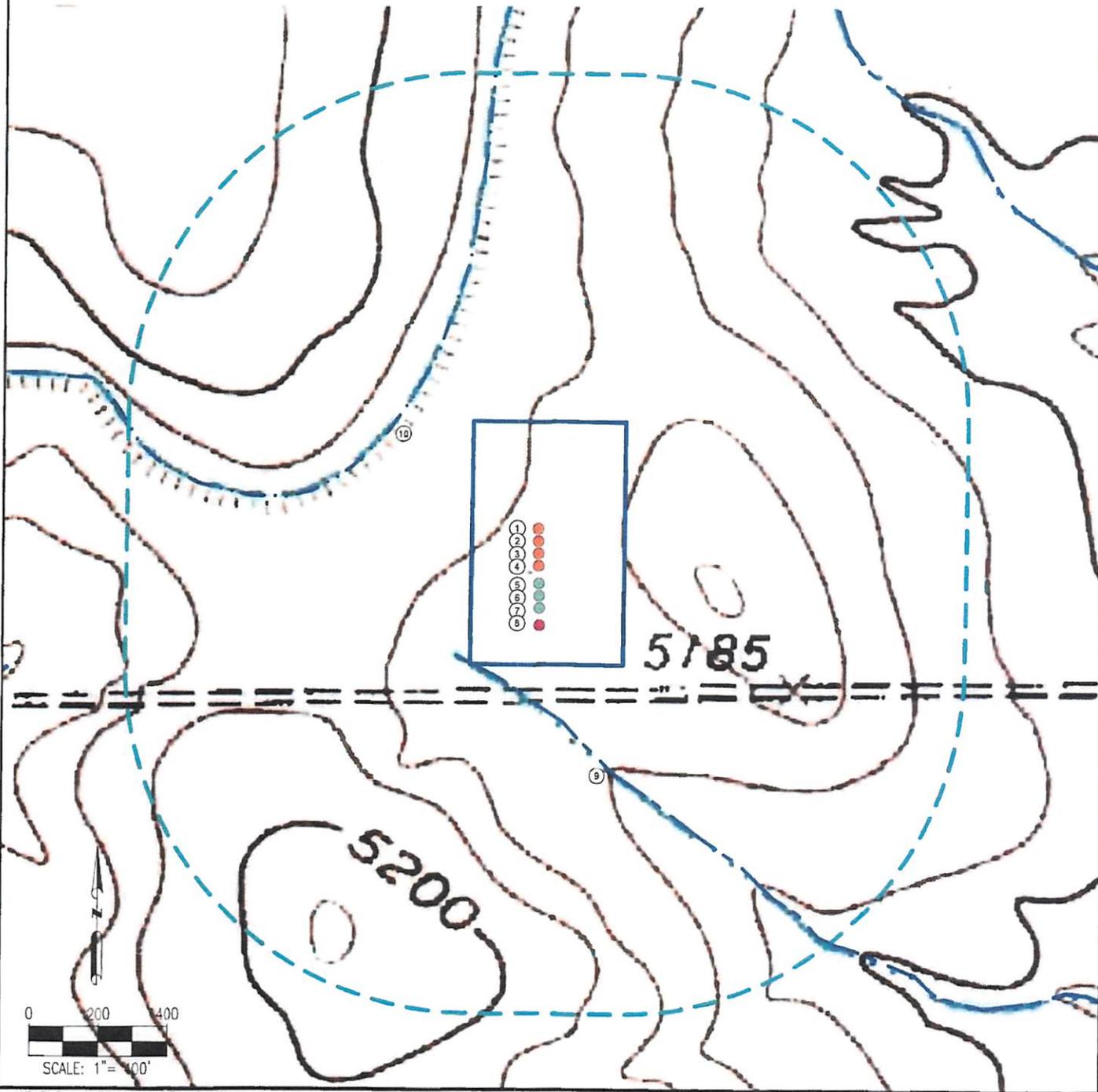


DISCLAIMER  
THIS PLOT DOES NOT REPRESENT A HIGHLY ACCURATE SURVEY AND SHOULD NOT BE  
FIELD UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER  
PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED, HAVE NOT BEEN FIELD VERIFIED AND  
MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN  
INDEPENDENTLY VERIFIED.

**NOTE:**  
1 A COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION

<b>PREPARED BY</b>  <small>1535 N. Hwy. 66 Denver, CO 80231</small>	<b>FIELD DATE</b> 12-29-16	<b>SITE NAME</b> COLORADO CRAFT PAD	<b>PREPARED FOR</b> 
	<b>DRAWING DATE</b> 01-10-17	<b>SURFACE LOCATION</b> SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M. WELD COUNTY, COLORADO	
<b>BY</b> MDC	<b>CHECKED BY</b> KAD		

# CANADIAN SLANG PAD HYDROLOGY MAP



MEASUREMENTS ARE MADE FROM THE NEAREST EDGE OF THE DISTURBANCE AREA.

- |                                      |                               |
|--------------------------------------|-------------------------------|
| 1. BEAUFORT 8-67-36-25C              | 7. DOUBLE-DOUBLE 8-67-36-25C  |
| 2. HUDSON BAY 8-67-36-25N            | 8. MAPLE 8-67-36-25C          |
| 3. ST. LAWRENCE 8-67-36-25C          | 9. EPHEMERAL STREAM IS ±0' SW |
| 4. NORTHWESTERN PASSAGES 8-67-36-25C | 10. STREAM IS ±185' NW        |
| 5. TOUQUE 8-67-36-25N                |                               |
| 6. COWTOWN 8-67-36-25C               |                               |

**LEGEND:**

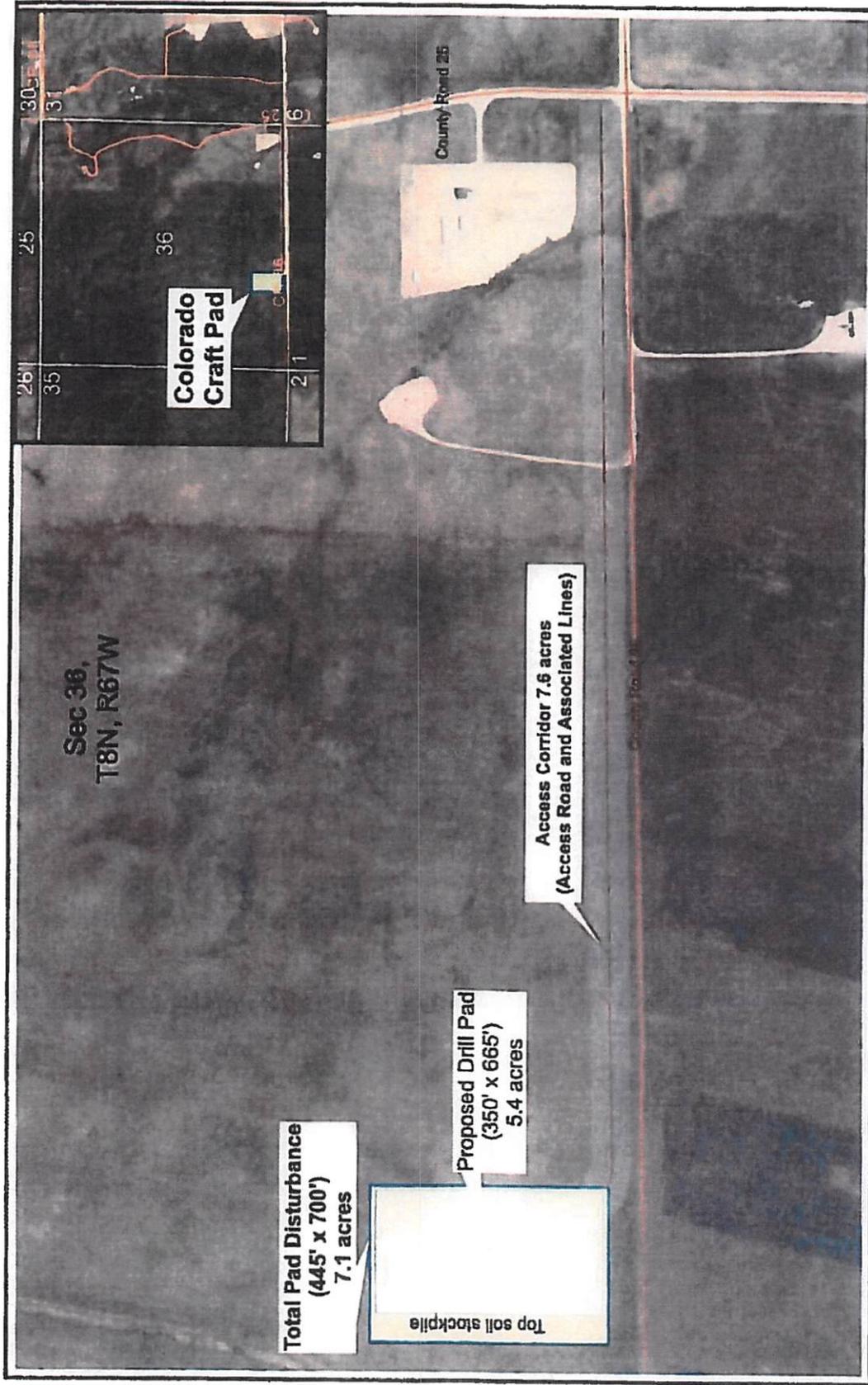
- |   |                    |
|---|--------------------|
| <span style="color: red;">●</span> = PROPOSED WELL    | = EPHEMERAL STREAM |
| <span style="color: green;">●</span> = PERMITTED WELL | = STREAM           |
| <span style="color: red;">●</span> = PRODUCING WELL   | = DISTURBANCE AREA |
|   | = 1000' RADIUS     |

**DISCLAIMER**  
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DATA SOURCE  
TOPO MAP USGS  
NHD USGS  
PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY PFS

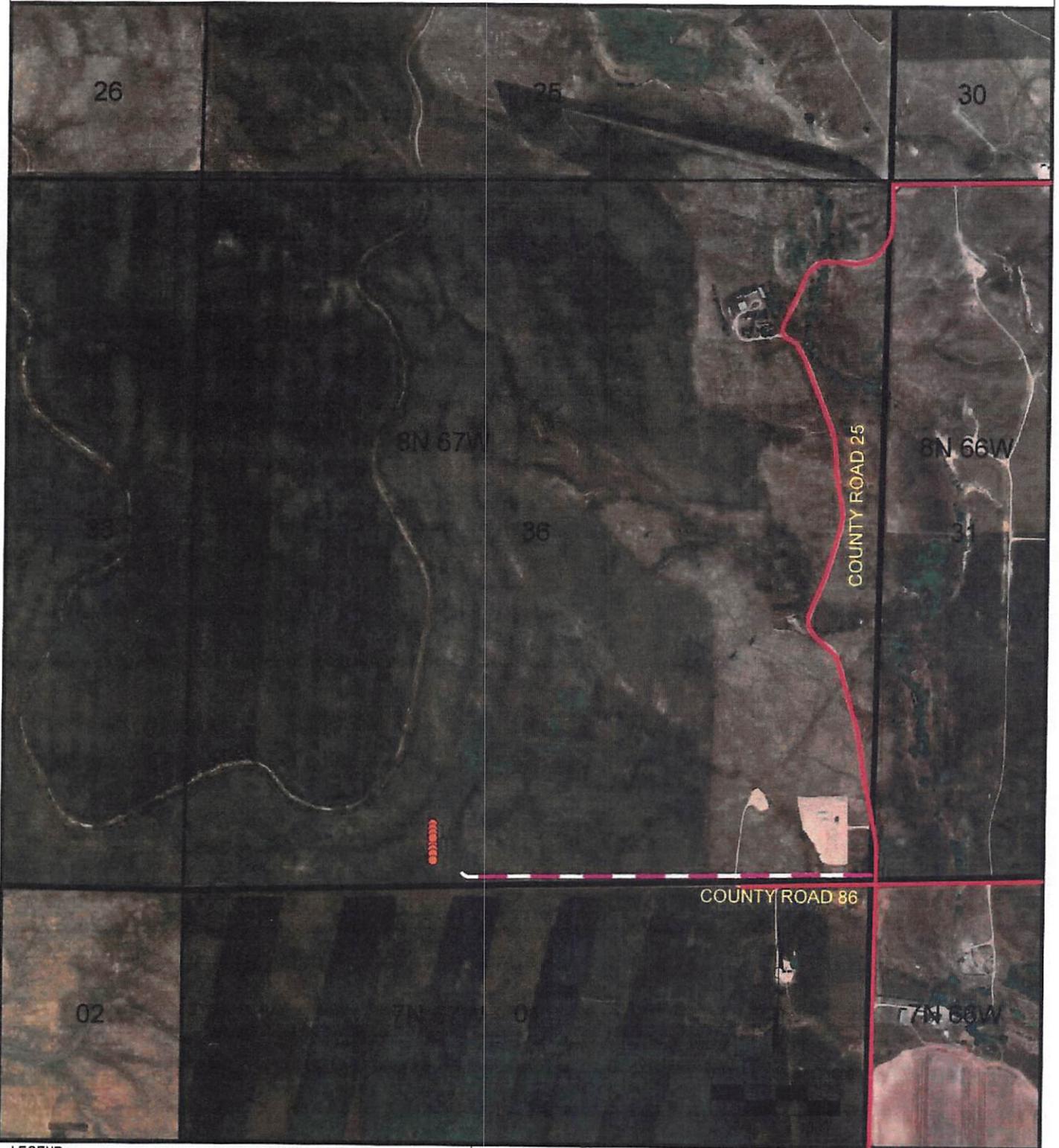
 7535 Hilltop Circle Denver, CO 80221 (303) 928-7128 www.ascentgeomatics.com	FIELD DATE: 04-12-17	SITE NAME CANADIAN SLANG PAD	PREPARED FOR  
	DRAWING DATE 08-16-18	SURFACE LOCATION SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M. WELD COUNTY, COLORADO	
BY SJH	CHECKED BY IJM		

Exhibit A Doc  
**Colorado Craft Initial Operations Area**  
 Exhibit A



**SE/4 SW/4, Sec. 36, T8N, R67W, 6th P.M.  
Weld County, Colorado**

# COLORADO CRAFT PAD ACCESS ROAD MAP



**LEGEND:**

- = PROPOSED WELL
- = EXISTING ROAD
- = SECTION LINE
- = PROPOSED ACCESS ROAD

DISCLAIMER  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

DATA SOURCE  
AERIAL IMAGERY NAIP 2015  
PLUS BLM  
PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY PFS

PREPARED BY



FIELD DATE:

12-29-16

DRAWING DATE

01-13-17

BY

KAD

CHECKED BY

MDC

SITE NAME:

COLORADO CRAFT PAD

SURFACE LOCATION

SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M.  
WELD COUNTY, COLORADO

PREPARED FOR



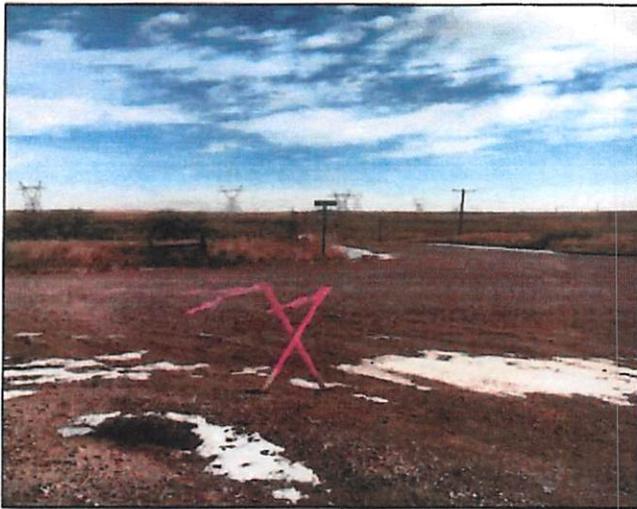
# ACCESS ROAD PHOTOS



Looking from the roadway into the access location



Looking down the roadway to the left of the access



Looking from the access to the roadway



Looking down the roadway to the right of the access

Well Pad Name: COLORADO CRAFT PAD

Operator: ENERPLUS RESOURCES (USA) CORP.

Access Location: T8N R67W S36 SESW

Date Taken: 12-14-2016

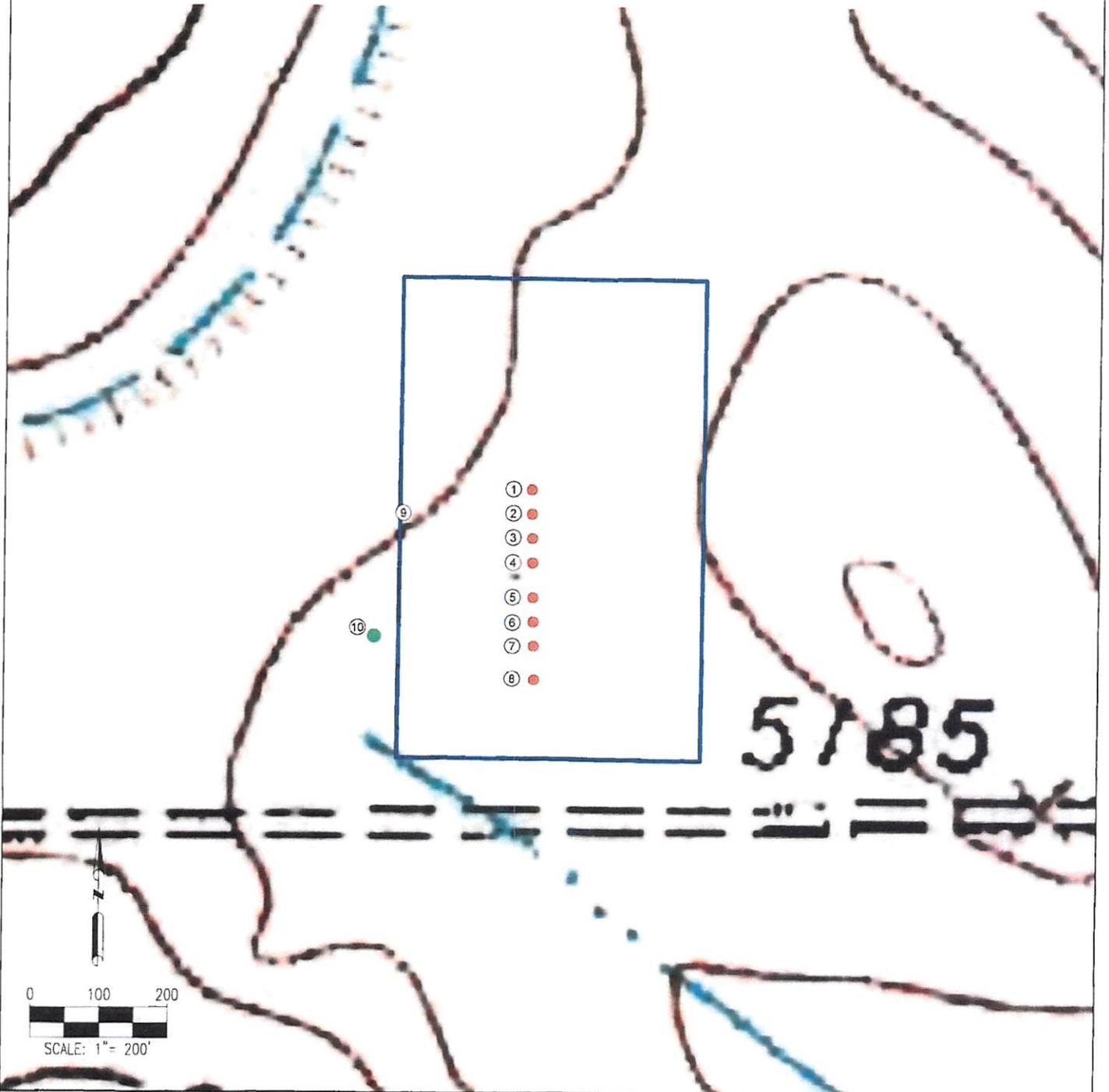
LAT: 40.610821 LONG: -104.831765

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Denver, CO 80221  
(303) 928-7128  
www.ascentgeomatics.com

**ASCENT**  
GEOMATICS SOLUTIONS

# COLORADO CRAFT PAD REFERENCE AREA MAP

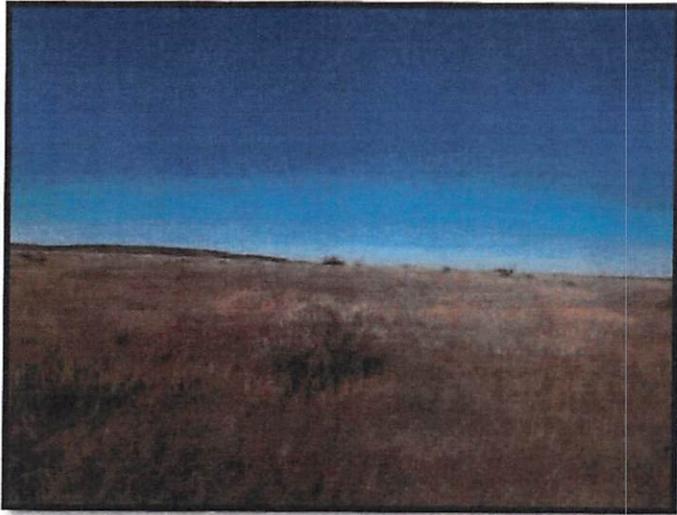


<ol style="list-style-type: none"> <li>1. AIMING FLUID 8-67-36-25N</li> <li>2. AMBER NECTAR 8-67-36-25C</li> <li>3. BARLEY POP 8-67-36-25C</li> <li>4. BREW 8-67-36-25C</li> <li>5. BREWSKI 8-67-36-25N</li> </ol>	<ol style="list-style-type: none"> <li>6. FROSTIE 8-67-36-25C</li> <li>7. LIQUID BREAD 8-67-36-25C</li> <li>8. SUDS 8-67-36-25C</li> <li>9. DISTURBANCE AREA BOUNDARY</li> <li>10. REFERENCE PHOTO POINT</li> </ol>	<p style="text-align: center;"><b>REFERENCE LOCATION</b></p> <p style="text-align: center;">**REFERENCE PHOTO POINT**</p> <p style="text-align: center; font-size: small;">LAT: 40.611226° LONG: -104.844785° ELEVATION: 5181'</p>
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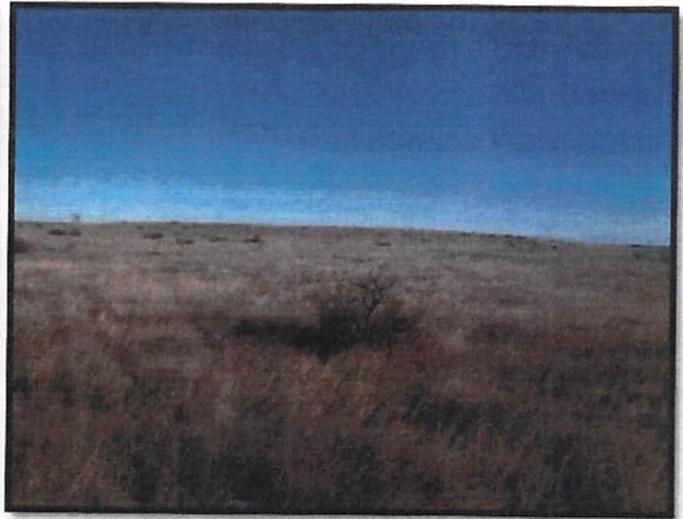
<p><b>DISCLAIMER</b> THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.</p>	<p><b>DATA SOURCE</b> TCPO MAP USGS</p> <p><small>PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY PFS</small></p>	<p><b>LEGEND:</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">●</span> = PROPOSED WELL</li> <li><span style="color: green;">●</span> = REFERENCE PHOTO POINT</li> <li><span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> = DISTURBANCE AREA</li> </ul>
---	---	---

<p>PREPARED BY</p>	<p>FIELD DATE: 12-29-16</p> <p>DRAWING DATE 01-13-17</p> <p>BY KAD</p>	<p>CHECKED BY MDC</p>	<p>SITE NAME: COLORADO CRAFT PAD</p> <p>SURFACE LOCATION SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M. WELD COUNTY, COLORADO</p>	<p>PREPARED FOR</p>
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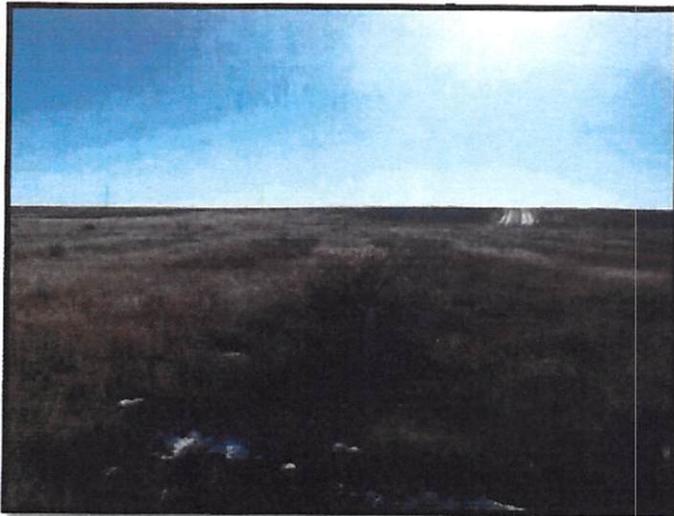
# REFERENCE PHOTOS



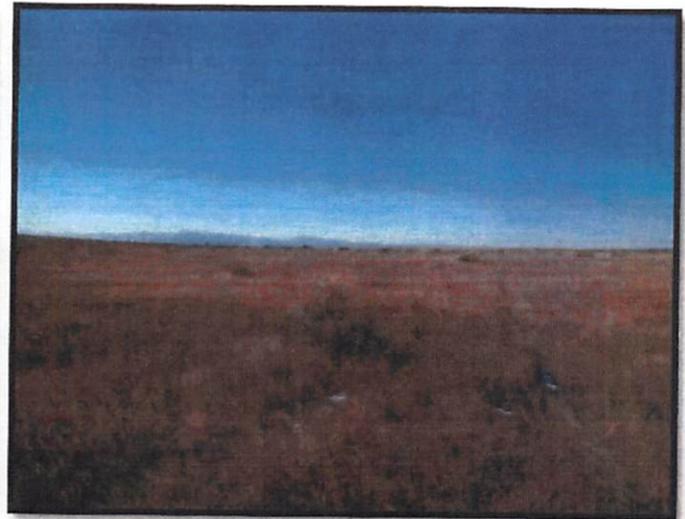
Looking North



Looking East



Looking South



Looking West

**Well Pad Name:** COLORADO CRAFT PAD

**Operator:** ENERPLUS RESOURCES (USA) CORP.

**Location:** T8N R67W S36 SESW

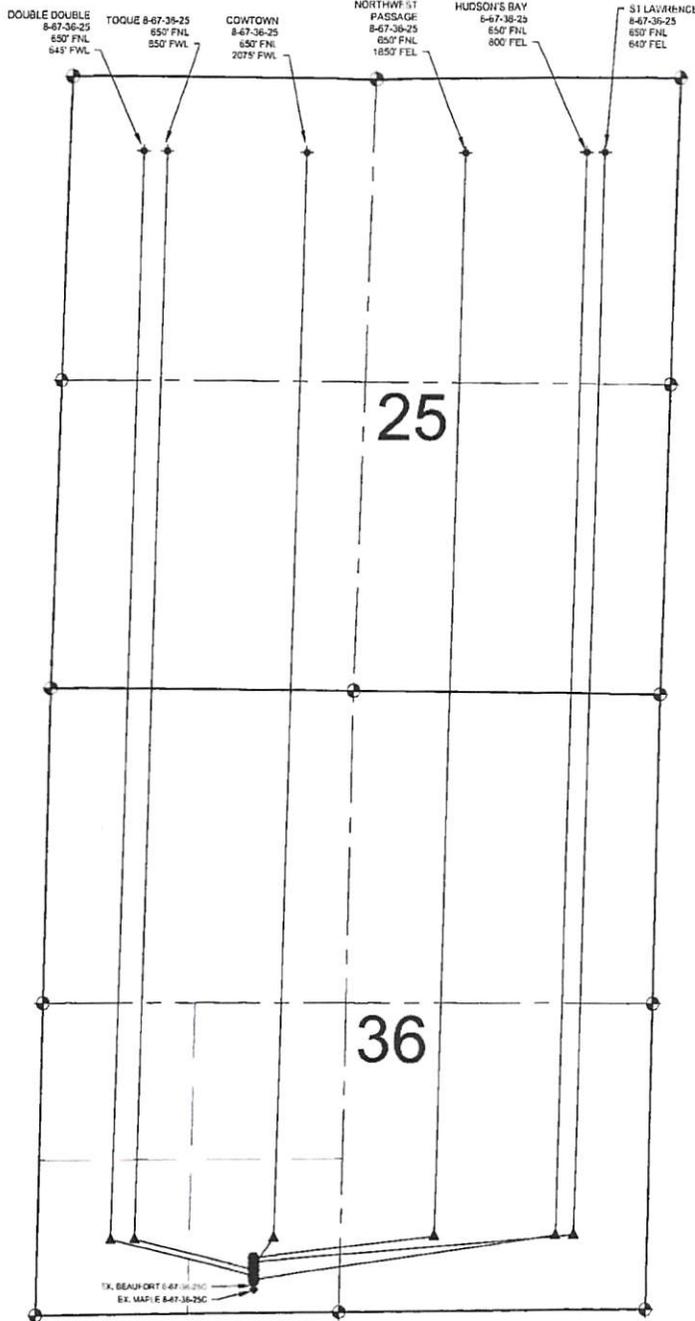
**Date Taken:** 12-29-2016

**enerPLUS**

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Denver, CO 80221  
(303) 928-7128  
[www.ascentgeomatics.com](http://www.ascentgeomatics.com)



# CANADIAN SLANG PAD DIRECTIONAL WELL PLAT



**NOTES:**

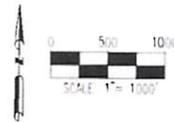
1. THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE COGCC, RULE NO. 215
2. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE GROUND VALUES AS GPS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO LINES SHOWN HEREON. THIS LOW DISTORTION PROJECTION (LDP) IS BASED ON THE NORTH AMERICAN DATUM OF 1983, U.S. SURVEY FOOT WITH A LATITUDE ORIGIN OF 40.654362°N, A CENTRAL MERIDIAN LONGITUDE OF 104.887025°W, AND A SCALE FACTOR ON THE CENTRAL MERIDIAN OF 1.000253 (EXACT). THE LDP BASIS OF BEARINGS IS GEODETIC NORTH.
3. FIELD VERIFICATION OF MONUMENTS COMPLETED WITHIN 1 YEAR OF SIGNATURE DATE, UNLESS OTHERWISE NOTED.

**NOTES:**

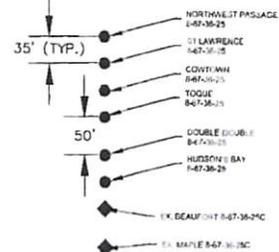
- DOUBLE DOUBLE 8-67-36-25 TO BE AT 326' FSL & 1906' FWL. BOTTOM HOLE AT 650' FNL & 645' FWL, SEC. 25.
- TOQUE 8-67-36-25 TO BE AT 376' FSL & 1904' FWL. BOTTOM HOLE AT 650' FNL & 850' FWL, SEC. 25.
- COWTOWN 8-67-36-25 TO BE AT 411' FSL & 1903' FWL. BOTTOM HOLE AT 650' FNL & 2075' FWL, SEC. 25.
- NORTHWEST PASSAGE 8-67-36-25 TO BE AT 481' FSL & 1901' FWL. BOTTOM HOLE AT 650' FNL & 1850' FWL, SEC. 25.
- HUDSON'S BAY 8-67-36-25 TO BE AT 291' FSL & 1907' FWL. BOTTOM HOLE AT 650' FNL & 800' FWL, SEC. 25.
- ST LAWRENCE 8-67-36-25 TO BE AT 446' FSL & 1902' FWL. BOTTOM HOLE AT 650' FNL & 640' FWL, SEC. 25.
- EX. BEAUFORT 8-67-36-25C IS AT 258' FSL & 1907' FWL.
- EX. MAPLE 8-67-36-25C IS AT 206' FSL & 1909' FWL.

**LEGEND**

- ⊕ = EXISTING MONUMENT
- = CALCULATED POSITION
- ◐ = PROPOSED WELL
- ◆ = BOTTOM HOLE
- ▲ = LANDING POINT
- ◆ = EXISTING WELL
- LP = LANDING POINT
- BHL = BOTTOM HOLE



**WELL DETAILS**  
1" = 100'



FILED DATE: 06-05-18  
DRAWING DATE: 06-28-22  
BY: CSS  
CHECKED: HJL

WELL NAME: CANADIAN SLANG PAD  
SURFACE LOCATION: SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M.  
WELD COUNTY, COLORADO



**HUDSON'S BAY 8-67-36-25  
WELL LOCATION EXHIBIT**

**WELL HUDSON'S BAY 8-67-36-25 TO BE  
LOCATED 291' FSL & 1907' FWL**

**WELL BORE COORDINATES  
(NAD83)**

**SURFACE LOCATION:**  
GROUND ELEVATION=5181'  
LATITUDE 40.611281°N  
LONGITUDE 104.843947°W

**LANDING POINT:**  
LATITUDE 40.612383°N  
LONGITUDE 104.834569°W

**BOTTOM HOLE:**  
LATITUDE 40.638054°N  
LONGITUDE 104.833962°W

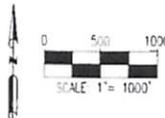
**WELL NOTES:**  
BH LOCATION PROVIDED BY CLIENT.  
LAND SURFACE USE - IMPROVED PASTURE  
EX. BEAUFORT 8-67-36-25C IS 35' S AT 256' FSL &  
1907' FWL.  
SEE LOCATION DRAWING FOR ADDITIONAL  
IMPROVEMENTS WITHIN 500'

PDOP = 2.0  
GPS OPERATOR: AARON RIVERA

- NOTES:**
1. THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE COGCC, RULE NO. 215
  2. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE GROUND VALUES AS GPS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO LINES SHOWN HEREON. THIS LOW DISTORTION PROJECTION (LDP) IS BASED ON THE NORTH AMERICAN DATUM OF 1983, U.S. SURVEY FOOT WITH A LATITUDE ORIGIN OF 40.654382°N, A CENTRAL MERIDIAN LONGITUDE OF 104.887025°W, AND A SCALE FACTOR ON THE CENTRAL MERIDIAN OF 1.000253 (EXACT). THE LDP BASIS OF BEARINGS IS GEODETIC NORTH.
  3. FIELD VERIFICATION OF MONUMENTS COMPLETED WITHIN 1 YEAR OF SIGNATURE DATE, UNLESS OTHERWISE NOTED.

**LEGEND**

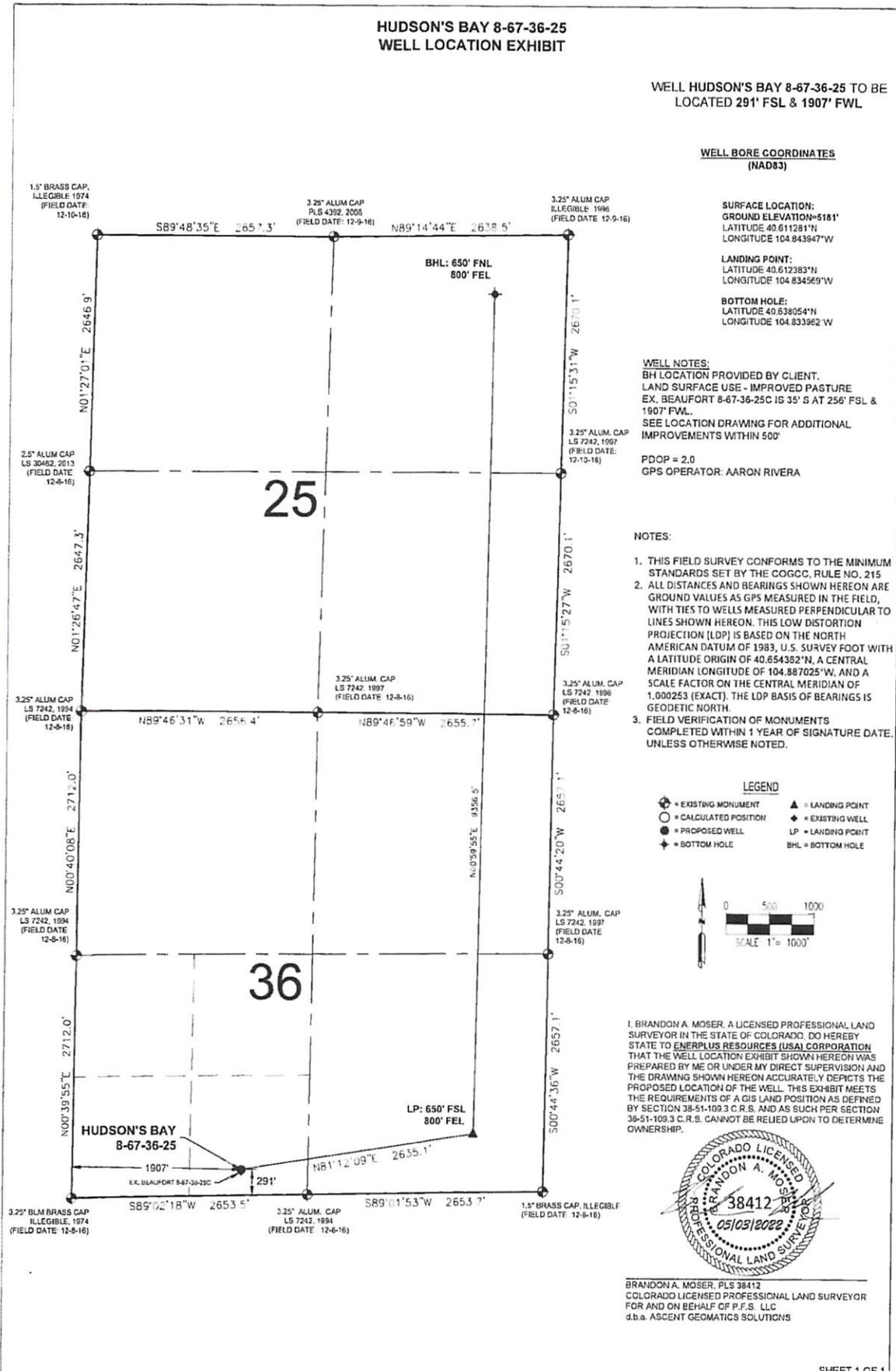
- ⊕ = EXISTING MONUMENT
- = CALCULATED POSITION
- = PROPOSED WELL
- ⊕ = BOTTOM HOLE
- ▲ = LANDING POINT
- ◆ = EXISTING WELL
- LP = LANDING POINT
- BHL = BOTTOM HOLE



I, BRANDON A. MOSER, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY STATE TO ENERPLUS RESOURCES (USA) CORPORATION THAT THE WELL LOCATION EXHIBIT SHOWN HEREON WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE PROPOSED LOCATION OF THE WELL. THIS EXHIBIT MEETS THE REQUIREMENTS OF A GIS LAND POSITION AS DEFINED BY SECTION 38-51-109.3 C.R.S. AND AS SUCH PER SECTION 38-51-109.3 C.R.S. CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.



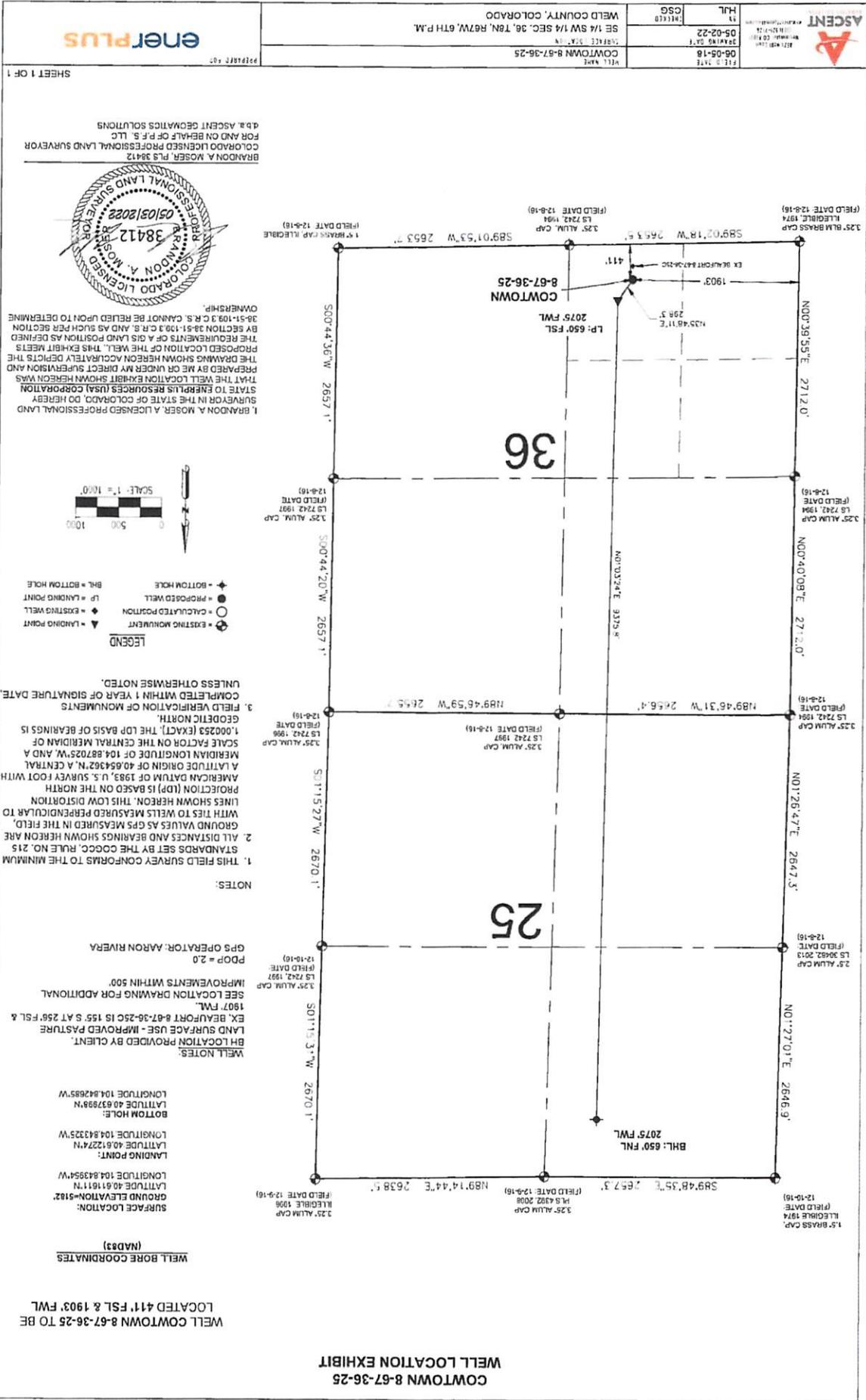
BRANDON A. MOSER, PLS 38412  
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
FOR AND ON BEHALF OF P.F.S. LLC  
d.b.a. ASCENT GEOMATICS SOLUTIONS



	FIELD DATE <b>06-05-18</b>	WELL NAME <b>HUDSON'S BAY 8-67-36-25</b>	SHEET 1 OF 1
	DRAWING DATE <b>05-02-22</b>	SURFACE USED ON SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M. WELD COUNTY, COLORADO	
BY <b>HJL</b>	CHECKED <b>CSG</b>	PLOT DATE FOR 	







**WELL BORE COORDINATES (NAD83)**

WELL COWTOWN 8-67-36-25 TO BE LOCATED 411' FSL & 1903' FWL

**WELL LOCATION EXHIBIT**

**COWTOWN 8-67-36-25**

**WELL NOTES:**

BH LOCATION PROVIDED BY CLIENT.  
 LAND SURFACE USE - IMPROVED PASTURE  
 EX. BEAUFORT 8-67-36-25C IS 155' S AT 256' FSL & 1907' FWL.  
 SEE LOCATION DRAWING FOR ADDITIONAL IMPROVEMENTS WITHIN 500'.  
 PDDP = 2.0  
 GPS OPERATOR: AARON RIVERA

**NOTES:**

1. THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE COGCC, RULE NO. 215. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE GROUND VALUES AS GPS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO PROJECTION (LIP) IS BASED ON THE NORTH AMERICAN DATUM OF 1983, U.S. SURVEY FOOT WITH A LATITUDE ORIGIN OF 40.664362°N, A CENTRAL MERIDIAN LONGITUDE OF 104.887025°W, AND A SCALE FACTOR ON THE CENTRAL MERIDIAN OF 1.000259 (EXACT). THE LIP BASIS OF BEARINGS IS GEODETIC NORTH.  
 2. FIELD VERIFICATION OF MONUMENTS COMPLETED WITHIN 1 YEAR OF SIGNATURE DATE, UNLESS OTHERWISE NOTED.

**LEGEND**

- = EXISTING MONUMENT
- = EXISTING WELL
- = PROPOSED WELL
- ◆ = LANDING POINT
- ◆ = BOTTOM HOLE

**LANDING POINT:**  
 LATITUDE 40.612274°N  
 LONGITUDE 104.843954°W

**BOTTOM HOLE:**  
 LATITUDE 40.637998°N  
 LONGITUDE 104.842685°W

**SURFACE LOCATION:**  
 GROUND ELEVATION - 5182  
 LATITUDE 40.611611°N  
 LONGITUDE 104.843954°W

**BRANDON A. MOSER, PLUS 38412**  
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
 FOR AND ON BEHALF OF P.F.S. LLC  
 d/b/a ASCENT GEOMATICS SOLUTIONS

**enerPlus**

WELD COUNTY, COLORADO  
 COWTOWN 8-67-36-25  
 SHEET 1 OF 1

**ASCENT**  
 WELD COUNTY, COLORADO  
 COWTOWN 8-67-36-25  
 SHEET 1 OF 1

**DOUBLE DOUBLE 8-67-36-25  
WELL LOCATION EXHIBIT**

**WELL DOUBLE DOUBLE 8-67-36-25 TO BE  
LOCATED 326' FSL & 1906' FWL**

**WELL BORE COORDINATES  
(NAD83)**

**SURFACE LOCATION:**  
GROUND ELEVATION=5180'  
LATITUDE 40.611377°N  
LONGITUDE 104.843949°W

**LANDING POINT:**  
LATITUDE 40.612210°N  
LONGITUDE 104.848475°W

**BOTTOM HOLE:**  
LATITUDE 40.638013°N  
LONGITUDE 104.847838°W

**WELL NOTES:**  
BH LOCATION PROVIDED BY CLIENT.  
LAND SURFACE USE - IMPROVED PASTURE  
EX. BEAUFORT 8-67-36-25C IS 70'S AT 256' FSL &  
1907' FWL.  
SEE LOCATION DRAWING FOR ADDITIONAL  
IMPROVEMENTS WITHIN 500'

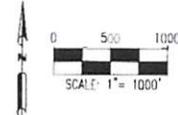
PDOP = 2.0  
GPS OPERATOR: AARON RIVERA

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- ◆ = BOTTOM HOLE
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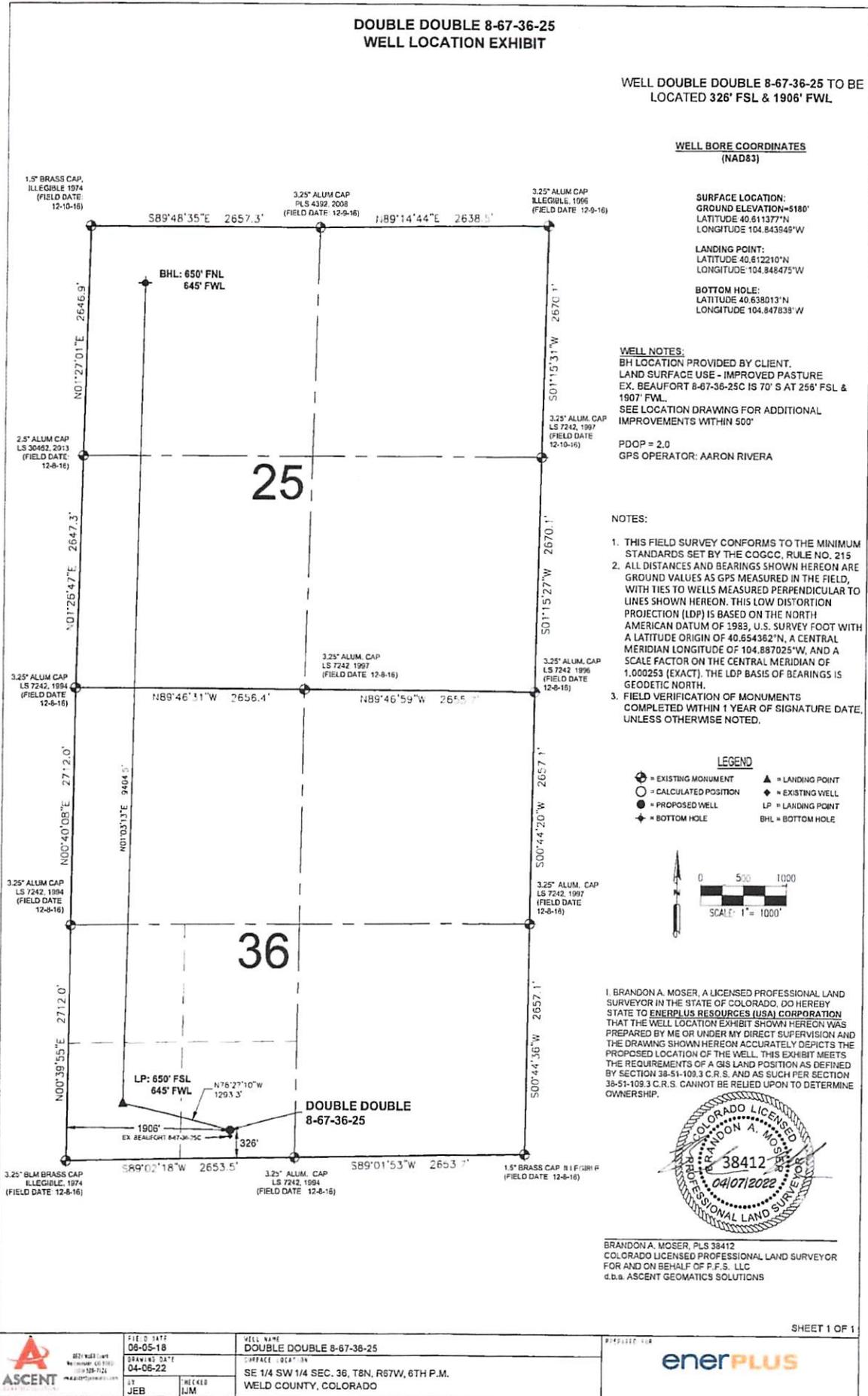


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BRANDON A. MOSER, PLS 38412  
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
FOR AND ON BEHALF OF P.F.S. LLC  
d.b.a. ASCENT GEOMATICS SOLUTIONS

SHEET 1 OF 1



	FILED DATE <b>06-05-18</b>	WELL NAME <b>DOUBLE DOUBLE 8-67-36-25</b>	
	DRAWING DATE <b>04-06-22</b>	SURFACE LOCATION <b>SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M. WELD COUNTY, COLORADO</b>	
BY JEB	CHECKED JJM		

**TOQUE 8-67-36-25  
WELL LOCATION EXHIBIT**

WELL TOQUE 8-67-36-25 TO BE  
LOCATED 376' FSL & 1904' FWL

**WELL BORE COORDINATES  
(NAD83)**

**SURFACE LOCATION:**  
GROUND ELEVATION=5182'  
LATITUDE 40.611515°N  
LONGITUDE 104.843952°W

**LANDING POINT:**  
LATITUDE 40.612219°N  
LONGITUDE 104.847737°W

**BOTTOM HOLE:**  
LATITUDE 40.638011°N  
LONGITUDE 104.847099°W

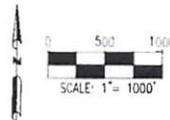
**WELL NOTES:**  
BH LOCATION PROVIDED BY CLIENT.  
LAND SURFACE USE - IMPROVED PASTURE  
EX. BEAUFORT 8-67-36-25C IS 120' S AT 256' FSL &  
1907' FWL.  
SEE LOCATION DRAWING FOR ADDITIONAL  
IMPROVEMENTS WITHIN 500'  
PDOP = 2.0  
GPS OPERATOR: AARON RIVERA

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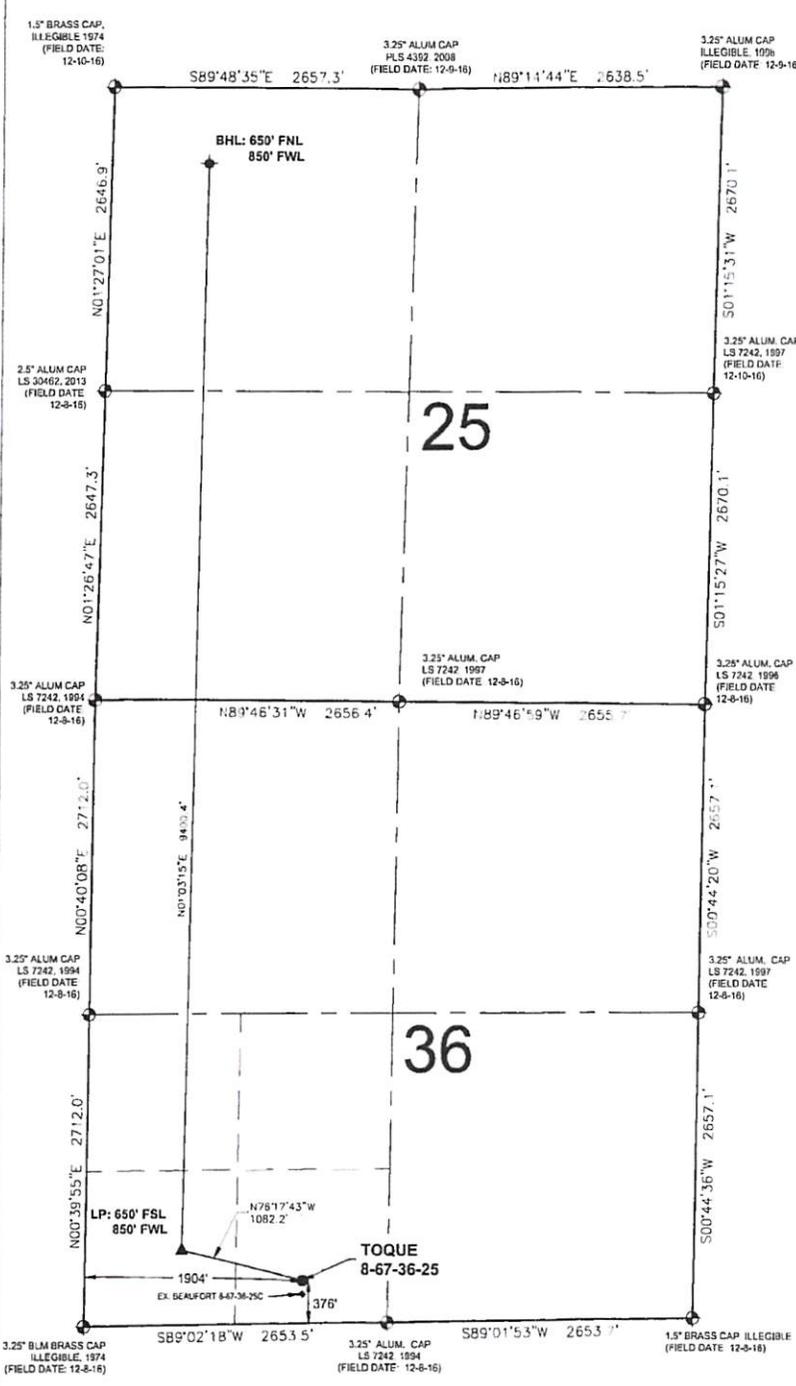
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BRANDON A. MOSER, PLS 38412  
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
FOR AND ON BEHALF OF P.F.S., LLC  
d.b.a. ASCENT GEOMATICS SOLUTIONS



	FIELD DATE 05-05-18	WELL NAME TOQUE 8-67-36-25	PREPARED FOR 
	DRAWING DATE 04-06-22	SURFACE LOCATION SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M. WELD COUNTY, COLORADO	



3155 Hilltop Circle  
Denver, CO 80231  
303.924.1122  
www.ascendinc.com

BY SJH  
CHECKED BY JUM  
DRAWING DATE 08-16-18  
FIELD DATE 04-12-17

WELD COUNTY, COLORADO  
SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M.  
SURFACE LOCATION  
BEAUFORT 8-67-36-25C

enerPLUS  
PREPARED FOR

SHEET 1 OF 2

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT, IN NO EVENT MAY ANY ACTION BE BASED UPON ANY DEFECT IN THIS SURVEY COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.

NOTES:  
1. THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C., RULE NO. 215  
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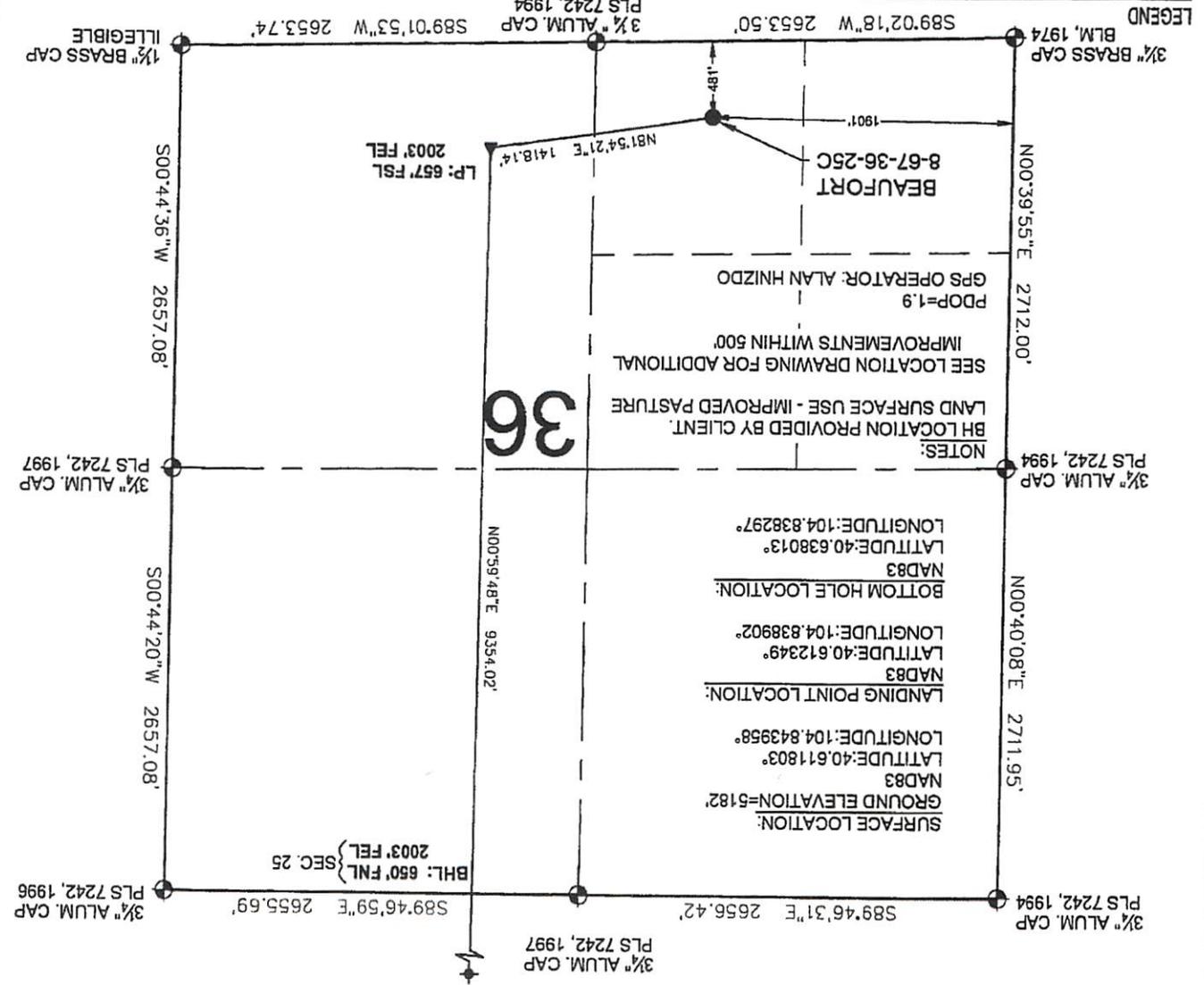
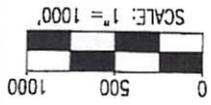
ROBERT J. GUFFEY, PLS 206880  
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
FOR AND ON BEHALF OF P.F.S., LLC  
d.b.a. ASCENT GEOMATICS SOLUTIONS



ROBERT J. GUFFEY, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY STATE THAT THIS WELL LOCATION CERTIFICATE WAS MADE FROM AN ACTUAL FIELD SURVEY PERFORMED UNDER MY RESPONSIBLE CHARGE ON THE DATE SHOWN HEREON AND CORRECTLY SHOWS THE LOCATION OF THE WELL SHOWN HEREON, AS STAKED ON THE GROUND, AND THE LOCATION OF THE LINES OF THE PUBLIC LAND SURVEY SYSTEM TO MY KNOWLEDGE, INFORMATION, AND BELIEF. THIS CERTIFICATE DOES NOT REPRESENT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AS DEFINED BY C.R.S. 38-51-102 AND IS IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF PRACTICE FOR PROFESSIONAL LAND SURVEYING. THIS CERTIFICATE IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

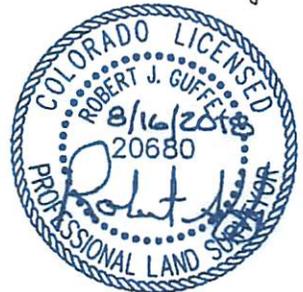
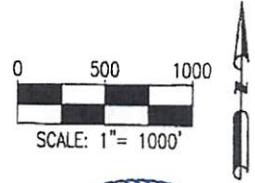
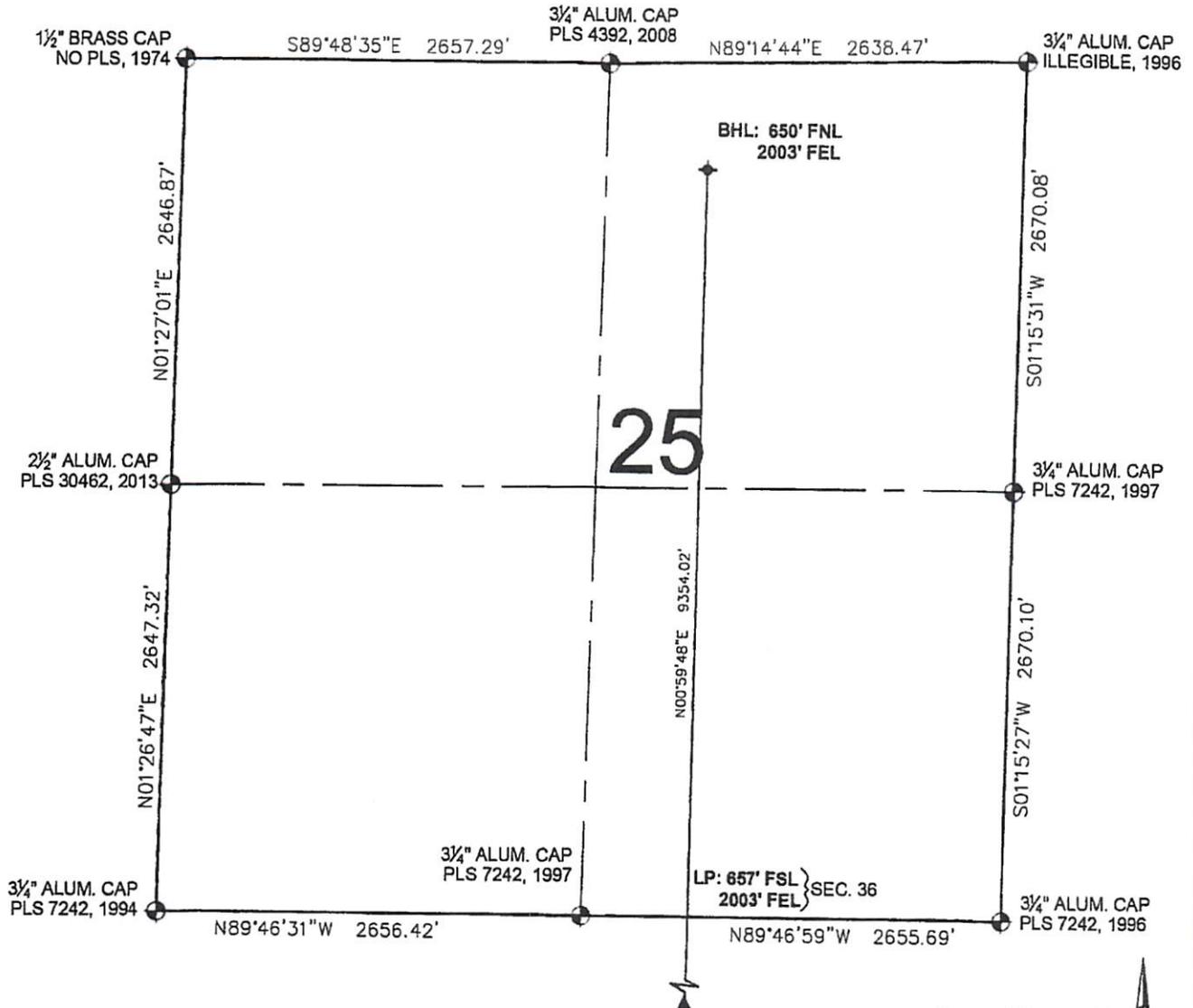
LEGEND  
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 ○ = CALCULATED POSITION  
 ▲ = LANDING POINT  
 ◆ = BOTTOM HOLE  
 ◆ = EXISTING WELL  
 ● = PROPOSED WELL

WELL BEAUFORT 8-67-36-25C TO BE LOCATED 481' FSL & 1901' FWL



BEAUFORT 8-67-36-25C WELL LOCATION CERTIFICATE

# BEAUFORT 8-67-36-25C WELL LOCATION CERTIFICATE



**LEGEND**

- ⊕ = EXISTING MONUMENT      ◆ = BOTTOM HOLE
- = CALCULATED POSITION    ▲ = LANDING POINT
- = PROPOSED WELL        LP = LANDING POINT
- ◆ = EXISTING WELL        BHL = BOTTOM HOLE LOCATION

ROBERT J. GUFFEY, PLS 20680  
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
 FOR AND ON BEHALF OF P.F.S., LLC  
 d.b.a. ASCENT GEOMATICS SOLUTIONS

SHEET 2 OF 2



<b>FIELD DATE</b> 04-12-17	<b>WELL NAME</b> BEAUFORT 8-67-36-25C	<b>PREPARED FOR</b>
<b>DRAWING DATE</b> 08-16-18	<b>SURFACE LOCATION</b> SE 1/4 SW 1/4 SEC. 36, T8N, R67W, 6TH P.M. WELD COUNTY, COLORADO	
<b>BY:</b> SJH	<b>CHECKED BY:</b> IJM	

Second Amendment  
EXHIBIT B - 1  
to  
SURFACE USE AGREEMENT

PAYMENT TABLE

Fee Category	Tier 1	Tier 2	Tier 3
	State has a mineral interest of greater than or equal to 50% but less than 100% <sup>5</sup>	State has a mineral interest of greater than 10% but less than 50%	State has a mineral interest of less than or equal to 10% <sup>4</sup>
Initial Damage Payment: Initial well pad or facility payment per acre	\$5,000	\$7,500	TBD
Well Payments: Well payment per well <sup>1</sup>	\$5,000 one-time	\$7,500 one-time	TBD <sup>6</sup>
Annual Payment: Rental due per year	10% of initial well pad or facility payment	10% of initial well pad or facility payment	TBD
Access Corridor Payment: Access roads, pipeline and powerline easements, and other off-pad disturbances	\$5,000 per acre or ROW pricing <sup>2</sup> , one-time payment	\$5,000 per acre or ROW pricing <sup>2</sup> , one-time payment	TBD
Production Facilities Payment: Off-property wells producing through an onsite Production Facility <sup>3</sup>	\$5,000 per well, one-time payment	\$7,500 per well, one-time payment	TBD

- (1) Payment is due on or before the next annual anniversary date after the spud of a well.
- (2) \$5,000 per acre or the Standard State ROW rates, whichever is greater; may be subject to either the SUA or a separate ROW agreement.
- (3) Requires prior written approval by the State Land Board and payment before any construction may begin. Please refer to the COGCC Rules and Regulations for the definition of Production Facility.
- (4) All applications that fall into the Tier 3 category require that the proposed fee structure be submitted to the Board for approval.
- (5) SUAs are not required when the state has 100% mineral ownership or when wellbores are contained entirely within state minerals.
- (6) Well Payments will be \$10,000 when the Initial Damage Payment falls into Tier 1 or Tier 2.

## Second Amendment

### Exhibit B

#### Acreage and Annual Payment Calculator

**Instructions:** Please fill out all of the sections that are highlighted in yellow. In the well column input the well name and the percentage of the wellbore or spacing unit that will be committed to the Colorado State Land Board. If there are more spaces than wells please leave them blank and do not enter "0". Please enter all numbers to the maximum known decimal interest to insure accuracy. The total initial payment and the annual rental payment will then be automatically calculated. Please note that if the total State percentage is 10% or less then board approval will be required and this chart should not be used.

Input each well's State Mineral Percentage that runs into this facility. Please only enter one well per row. Example 0%=0, 49%=49, 100%=100, Leave unused rows blank.	Fee Schedule	
Well Name	%	Percentage of State Minerals
Toque 8-67-36-25C (f.k.a. Brewski 8-67-36-25C)	50	10% to 0% State minerals
Cowtown 8-67-36-25C (f.k.a. Frostie 8-67-36-25N)	50	Greater than 10% but less than 50% State Minerals
Double-double 8-67-36-25C (f.k.a. Liquid Bread 8-67-36-25C)	50	50% or greater but less than 100% State Minerals
Maple 8-67-36-25C (f.k.a. Suds 8-67-36-25C & f.k.a. Loony 8-67-36-25C)	50	100% State Minerals
Beaufort 8-67-36-25C	50	
Hudson Bay 8-67-36-25N	50	
Northwestern Passages 8-67-36-25C	50	
St. Lawrence 8-67-36-25C	50	
		Input the proposed total disturbance to the maximum known decimal point below.
		Input the total acreage of the wellpad
		7.1
		Input the total acreage of all pipeline easements, access roads, and other disturbances NOT on the well pad
		7.6
		Calculated Total State Percentage from previous column
		50
		Well pad cost per acre based to State Percentage
		\$5,000.00
		Off well pad cost per acre for off well pad disturbances
		\$5,000.00
		Initial payment due for well pad disturbance
		\$35,500.00
		One time payment due for off well pad disturbance
		\$38,000.00
		<b>Final Calculated Payments</b>
		Total initial payment due for all planned construction
		\$73,500.00
The Calculated State Percentage will automatically be carried over and input.		Annual Rental Payment due on anniversary date
		\$3,550.00

## Second Amendment

### Exhibit B

Total Well Payment Calculator			
Percentage of State Minerals	Enter the number of wells running into the State Facility for each category	Charge per well	Total Payments
10% to 0% State minerals		\$10,000	\$0.00
Greater than 10% but less than 50% State Minerals		\$7,500	\$0.00
50% or greater but less than 100% State Minerals	8	\$5,000	\$40,000.00
100% State Minerals		\$0	\$0.00
		<b>Total Well Payment*</b>	<b>\$40,000.00</b>

\*Well Payments are due on the next annual anniversary date of the Effective date following spud. This number assumes full development.

Second Amendment

Exhibit C Doc



January 30, 2017

State Board of Land Commissioners  
Main Office  
Attn: Steve Freese  
1127 Sherman Street, Suite 300  
Denver, Colorado 80203

RE: Site Consult Request Colorado Craft Pad, SE 4SW 4 Section 36-18N-R67W, Weld  
County, Colorado State Oil and Gas Lease No. 2897.14

Dear Mr. Freese,

Enerplus Resources (USA) Corporation (Enerplus) would like to request a site consult for the  
above referenced well pad at your earliest convenience.

Enerplus intends to eventually drill four ( 4 ) horizontal wells on the Colorado Craft pad in  
SE/4SW/4 Section 36-8N-67W. The wells Enerplus intends to drill are shown on the included  
survey plat package that is being submitted herewith. The proposed wells will be drilled in  
accordance with the lease rights granted by the State of Colorado.

Upon review of oil and gas lease number OG 2897.14, Enerplus has determined that there are  
additional stipulations as listed in section 5 of the lease and attached as Exhibit A. Enerplus  
intends to accommodate any timing or locations issues that may affect its drilling operations.

Enclosed please find the applicable survey documents for the Colorado Craft pad. Please let us  
know if you would like to set up a consult to view the pad site. Should you find the location  
satisfactory and approve the location and wells to be drilled, please sign and return the attached  
acknowledgement.

Should you have any questions, please do not hesitate to contact me at my phone number given  
below.

Sincerely,

Tommy Carpenter  
AFE Coordinator  
Enerplus Resources (USA) Corporation  
(720) 279-5520 - Direct  
[t.carpenter@enerplus.com](mailto:t.carpenter@enerplus.com)

**ENERPLUS RESOURCES  
(USA) CORPORATION**

100 Davis Avenue, Suite 1000

Denver, CO 80202

Phone: (720) 279-5520

Fax: (720) 279-5520

www.enerplus.com

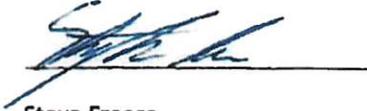
© 2017 Enerplus Resources (USA) Corporation

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**Exhibit C**

A desktop review was performed using the CNHP database that was last updated in March of 2016. Upon completion of the review it was determined that there are no issues of concern for Sect. 36 Twp 8N Rng 67W.



Steve Freese  
Mineral Field Technician  
Colorado State Land Board

Date 2/2/17



STATE OF  
COLORADO

Freese - DNR, Steve <steve.freese@state.co.us>

## Re: Request for CPW review 36 8N 67W

1 message

Marette - DNR, Brandon <brandon.marette@state.co.us>  
To: "Freese - DNR, Steve" <steve.freese@state.co.us>

Tue, Dec 13, 2016 at 4:53 PM

Hi Steve,

Thank you for proactively reaching out to CPW.

While nothing showed up on our HB1298, raptor nest, or prairie dog maps, in talking with the local DWM, CPW has three concerns:

1) There is a prairie dog town on the east 1/2 of Section 36. If initial site disturbance is planned within any portion of this prairie dog town and begins during the burrowing owl nesting season (March 15 to October 31), CPW recommends a survey to determine if burrowing owls are actively nesting. If burrowing owls are actively nesting, then CPW recommends a 300 foot buffer during the nesting season.

2) The riparian area of Coalbank Creek has the potential for nesting raptors. If initial site disturbance is planned within 1/2-mile of the riparian area during raptor nesting season (Feb. 15 to July 15), then CPW recommends a raptor nest survey. If any raptors are actively nesting, then CPW recommends the species-specific buffer and timing stipulation as stated here: <https://cpw.state.co.us/Documents/WildlifeSpecies/LivingWithWildlife/RaptorBufferGuidelines2008.pdf>

3) CPW recommends no surface disturbance within an appropriate distance of Coalbank Creek.

Should you have any comments about these recommendations, please feel free to contact me.

Best regards,

**Brandon B. Marette**  
Northeast Region Energy Liaison



COLORADO  
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THINK SAFETY FIRST!

On Mon, Dec 5, 2016 at 10:46 AM, Freese - DNR, Steve <steve.freese@state.co.us> wrote:  
Brandon,

I have an operator looking to construct a well pad in the above section. Could you please review this location and provide a list of recommendations. This section was leased in 2014 and CPW did not have any concerns at that time.

Thank you,

**Steve Freese**  
Minerals Field Technician  
Colorado State Board of Land Commissioners

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