



STATE OF COLORADO  
STATE BOARD OF LAND COMMISSIONERS

**Second Amendment to Surface Use Agreement No. OM-109261**

**THIS SECOND AMENDMENT** ("Second Amendment") to Surface Use Agreement No. 109261 and Amendment to Surface Use Agreement No. 109261 dated March 23, 2017, collectively referred to as the ("Agreement") is made this 12<sup>th</sup> day of April, 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 Noble Energy, Inc., hereinafter referred to as the "Operator", whose mailing address is 2001 16<sup>th</sup> Street, Suite 900, Denver, Colorado 80202:

**WITNESSETH**

**WHEREAS**, the State Land Board and Operator entered into the Agreement on December 10, 2014; and

**WHEREAS**, the Operator requested to amend the Agreement, which became effective March 23, 2017 ("First Amendment"), to change the pad location, the scope and use of which are defined in the First Amendment and its Exhibits;

**WHEREAS**, the Operator has applied to the State Land Board pursuant to Section 22 of the Agreement to amend the existing Agreement. It is the Operator's desire with this Second Amendment to change the well names, locations, and spacing as previously approved in the Agreement.

**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-A are herein incorporated to the Agreement and are intended to replace all prior Exhibits.
- The State Land Board approves the proposed well name, locations, and spacing as described in the Second Amendment - Exhibit A.
- The approved amended changes described in Second Amendment - Exhibit A, do not alter the payment structure.

**AND FURTHER**, this Second 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 Second Amendment, the Agreement and First Amendment 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 26<sup>th</sup> day of APRIL, 2022

Operator: [Signature]  
Signature

Ryan Antonio  
Printed Name

By: Attorney-In-Fact of Noble Energy, Inc.  
Position Entity

State of Colorado )

County of WELD ) ACKNOWLEDGEMENT

The foregoing instrument was acknowledged before me this 26<sup>th</sup> DAY OF APRIL by RYAN ANTONIO of Noble Energy, Inc, a Colorado Limited Liability Company, on behalf of the Limited Liability Company.

Signature: [Signature]  
Notary

Date: 4/26/2022

DONNA L TODD  
Notary Public  
State of Colorado  
Notary ID # 20044006032  
My Commission Expires 08-14-2023

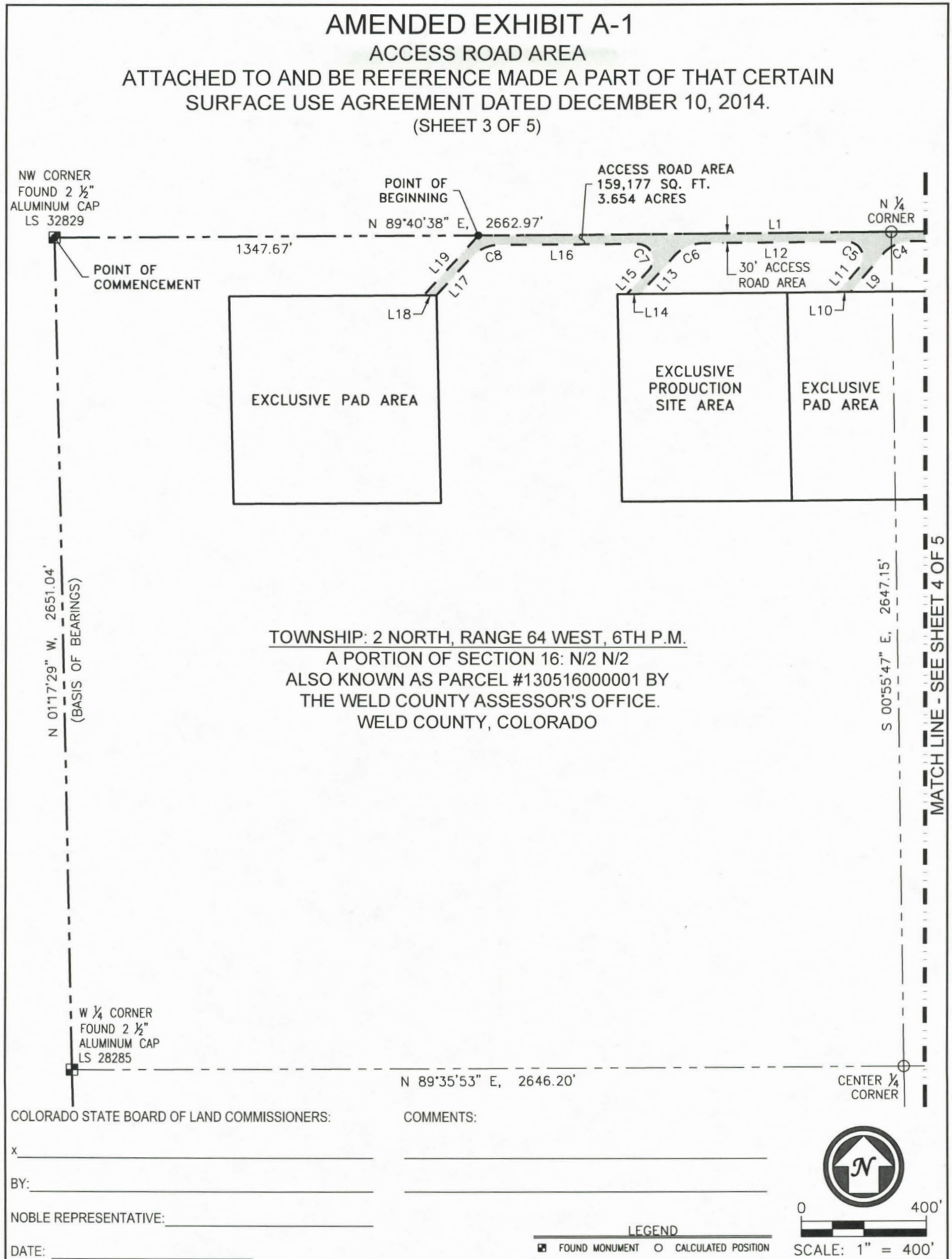
Dated this 27 day of April, 2022.

(Seal)

STATE OF COLORADO BY THE  
STATE BOARD OF LAND COMMISSIONERS

By: [Signature]  
Steve Freese, Minerals Field Specialist

# Second Amendment Exhibit A

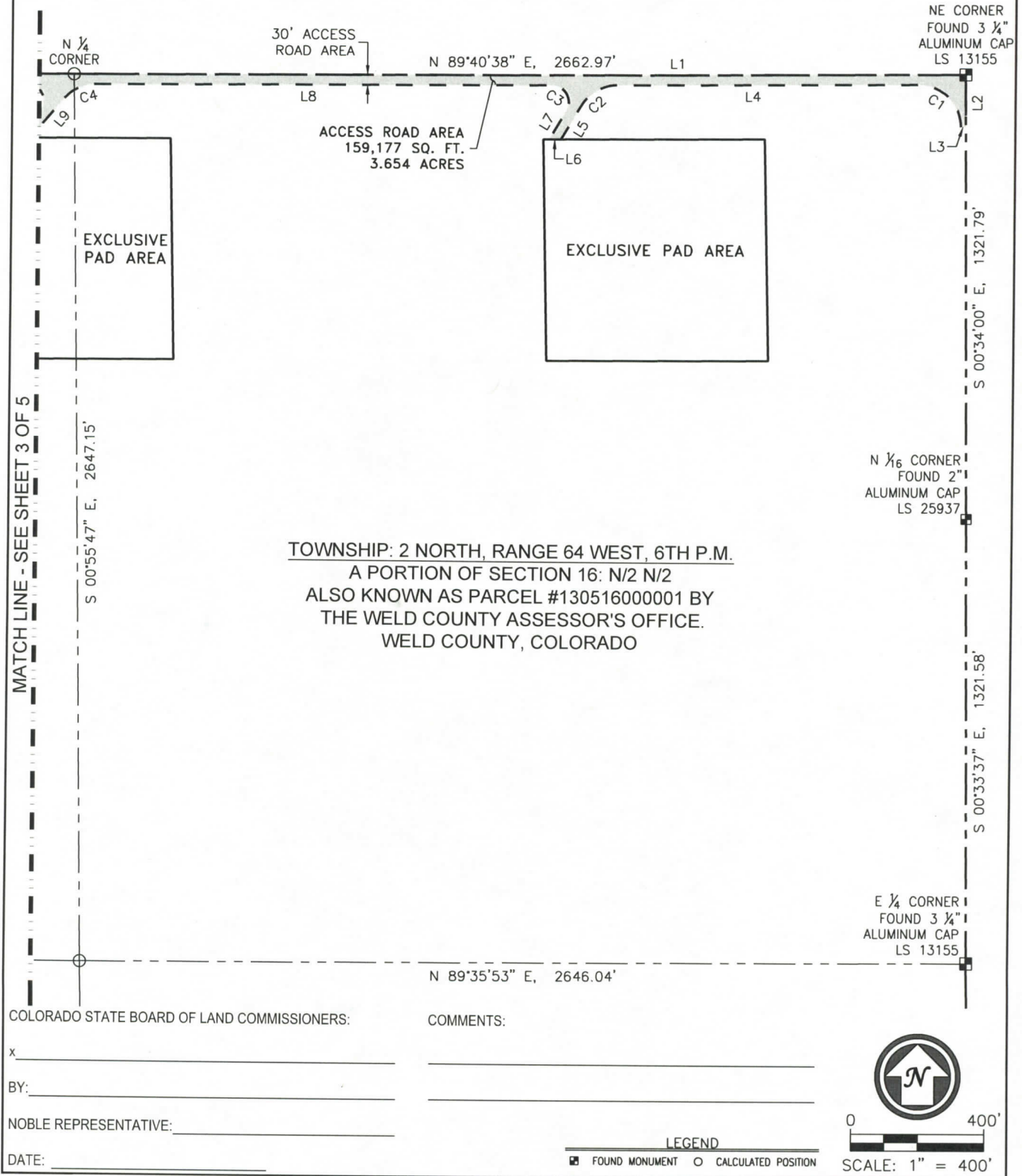


# Second Amendment Exhibit A

## AMENDED EXHIBIT A-1

### ACCESS ROAD AREA

ATTACHED TO AND BE REFERENCE MADE A PART OF THAT CERTAIN  
SURFACE USE AGREEMENT DATED DECEMBER 10, 2014.  
(SHEET 4 OF 5)





## Second Amendment Exhibit A

### AMENDED EXHIBIT A-1

#### ACCESS ROAD AREA

ATTACHED TO AND BE REFERENCE MADE A PART OF THAT CERTAIN  
SURFACE USE AGREEMENT DATED DECEMBER 10, 2014.  
(SHEET 5 OF 5)

LINE TABLE		
LINE #	BEARING	DISTANCE
L1	N 89°40'38" E	3978.28'
L2	S 00°34'00" E	154.41'
L3	S 89°26'00" W	15.00'
L4	S 89°40'38" W	902.62'
L5	S 30°56'52" W	116.86'
L6	S 89°40'38" W	35.10'
L7	N 30°56'52" E	98.33'
L8	S 89°40'38" W	1361.93'
L9	S 40°35'08" W	154.62'
L10	S 89°40'38" W	39.70'
L11	N 40°35'08" E	102.23'
L12	S 89°40'38" W	460.76'
L13	S 42°09'29" W	161.92'
L14	S 89°40'38" W	40.68'
L15	N 42°09'29" E	103.37'
L16	S 89°40'38" W	435.84'
L17	S 42°20'02" W	162.76'
L18	S 89°40'38" W	40.79'
L19	N 42°20'02" E	258.35'

CURVE TABLE					
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	195.82	125.00	89°45'22"	N45°26'41"W	176.40
C2	128.13	125.00	58°43'45"	S60°18'45"W	122.59
C3	105.83	50.00	121°16'15"	N29°41'15"W	87.15
C4	107.10	125.00	49°05'30"	S65°07'53"W	103.86
C5	114.24	50.00	130°54'30"	N24°52'07"W	90.96
C6	103.67	125.00	47°31'08"	S65°55'03"W	100.72
C7	115.61	50.00	132°28'52"	N24°04'57"W	91.52
C8	103.29	125.00	47°20'35"	S66°00'20"W	100.37

## Second Amendment Exhibit A

### LEGAL DESCRIPTION

#### PIPELINE AREA - EXHIBIT A-2

A PORTION OF PARCEL 130516000001, AS RECORDED IN THE WELD COUNTY ACCESSORS OFFICE, LYING WITHIN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NORTHWEST CORNER OF SAID SECTION 16, THENCE NORTH 89°40'38" EAST, A DISTANCE OF 1214.67 FEET ALONG THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 16;

THENCE DEPARTING SAID SECTION LINE SOUTH 00°19'22" EAST, A DISTANCE OF 265.00 FEET TO THE **POINT OF BEGINNING**;

THENCE NORTH 89°40'38" EAST, A DISTANCE OF 575.11 FEET;

THENCE SOUTH 01°16'57" EAST, A DISTANCE OF 80.01 FEET;

THENCE SOUTH 89°40'38" WEST, A DISTANCE OF 575.09 FEET;

THENCE NORTH 01°17'41" WEST, A DISTANCE OF 80.01 FEET TO THE **POINT OF BEGINNING**.

**CONTAINING:** 46,008 SQUARE FEET / 1.056 ACRES

**BASIS OF BEARINGS:** BEARINGS ARE BASED ON THE WEST LINE OF THE NORTH HALF OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, SIXTH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, AS MONUMENTED AT THE NORTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 32829 AND AT THE SOUTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 28285. SAID LINE IS ASSUMED TO BEAR NORTH 01°17'29" WEST, BEING A GRID BEARING OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983/2007.



ANTONIO W. SMITH, PLS  
COLORADO REG. NO. 38320  
FOR AND ON BEHALF OF  
R&R ENGINEERS-SURVEYORS, INC.

SHEET 1 of 2

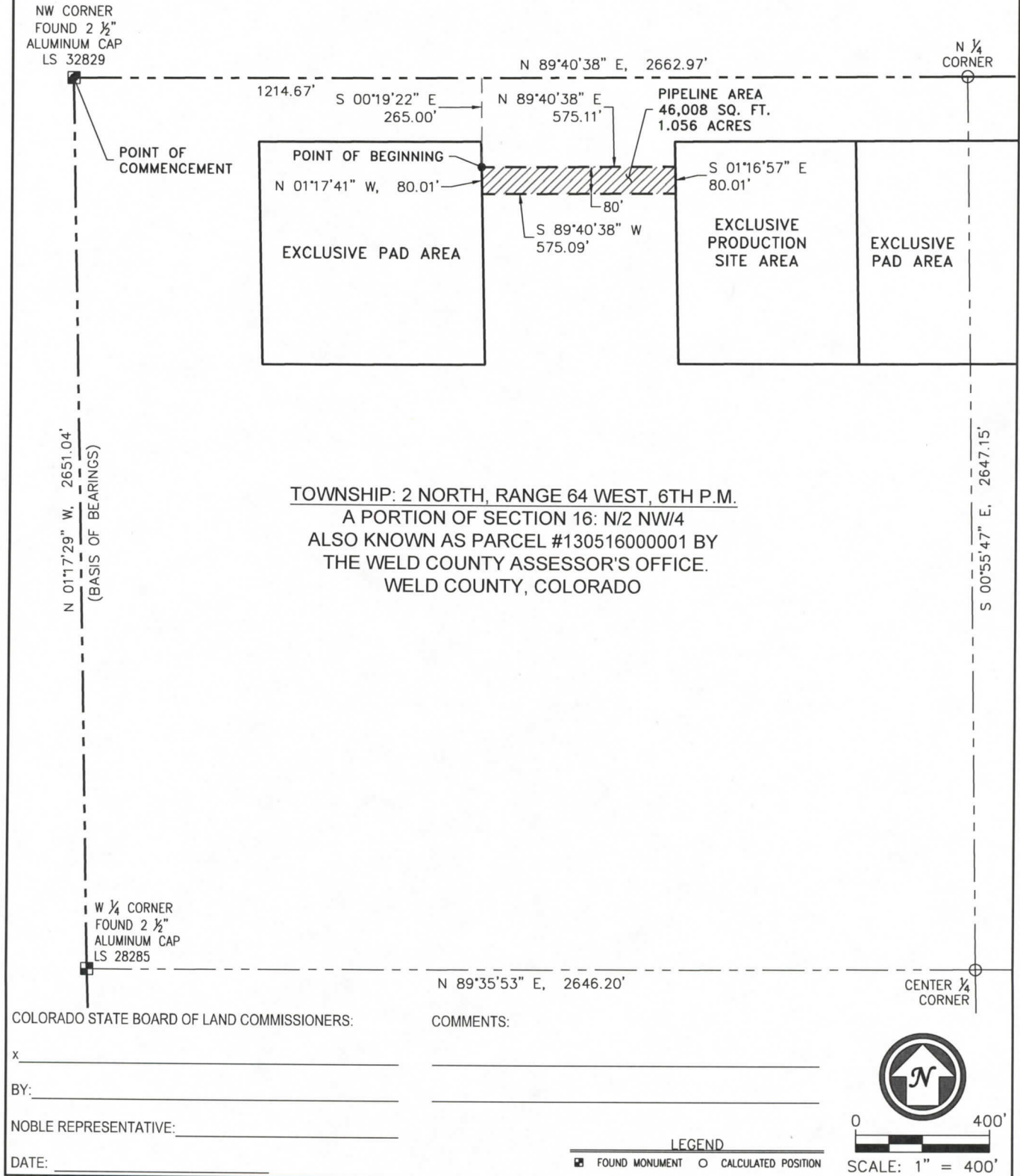
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# Second Amendment Exhibit A

## AMENDED EXHIBIT A-2

### PIPELINE AREA

ATTACHED TO AND BE REFERENCE MADE A PART OF THAT CERTAIN  
SURFACE USE AGREEMENT DATED DECEMBER 10, 2014.  
(SHEET 2 OF 2)





## Second Amendment Exhibit A

### LEGAL DESCRIPTION

#### PIPELINE AREA - EXHIBIT A-3

A PORTION OF PARCEL 130516000001, AS RECORDED IN THE WELD COUNTY ACCESSORS OFFICE, LYING WITHIN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NORTHWEST CORNER OF SAID SECTION 16, THENCE NORTH 89°40'38" EAST, A DISTANCE OF 1214.67 FEET ALONG THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 16;

THENCE DEPARTING SAID SECTION LINE SOUTH 00°55'27" EAST, A DISTANCE OF 695.04 FEET TO THE **POINT OF BEGINNING**;

THENCE NORTH 89°40'38" EAST, A DISTANCE OF 575.02 FEET;

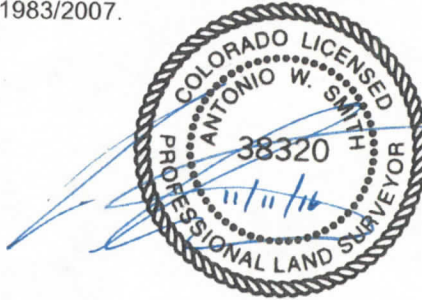
THENCE SOUTH 01°16'57" EAST, A DISTANCE OF 80.01 FEET;

THENCE SOUTH 89°40'38" WEST, A DISTANCE OF 575.00 FEET;

THENCE NORTH 01°17'41" WEST, A DISTANCE OF 80.01 FEET TO THE **POINT OF BEGINNING**.

**CONTAINING:** 46,001 SQUARE FEET / 1.056 ACRES

**BASIS OF BEARINGS:** BEARINGS ARE BASED ON THE WEST LINE OF THE NORTH HALF OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, SIXTH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, AS MONUMENTED AT THE NORTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 32829 AND AT THE SOUTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 28285. SAID LINE IS ASSUMED TO BEAR NORTH 01°17'29" WEST, BEING A GRID BEARING OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983/2007.



ANTONIO W. SMITH, PLS  
COLORADO REG. NO. 38320  
FOR AND ON BEHALF OF  
R&R ENGINEERS-SURVEYORS, INC.

SHEET 1 of 2

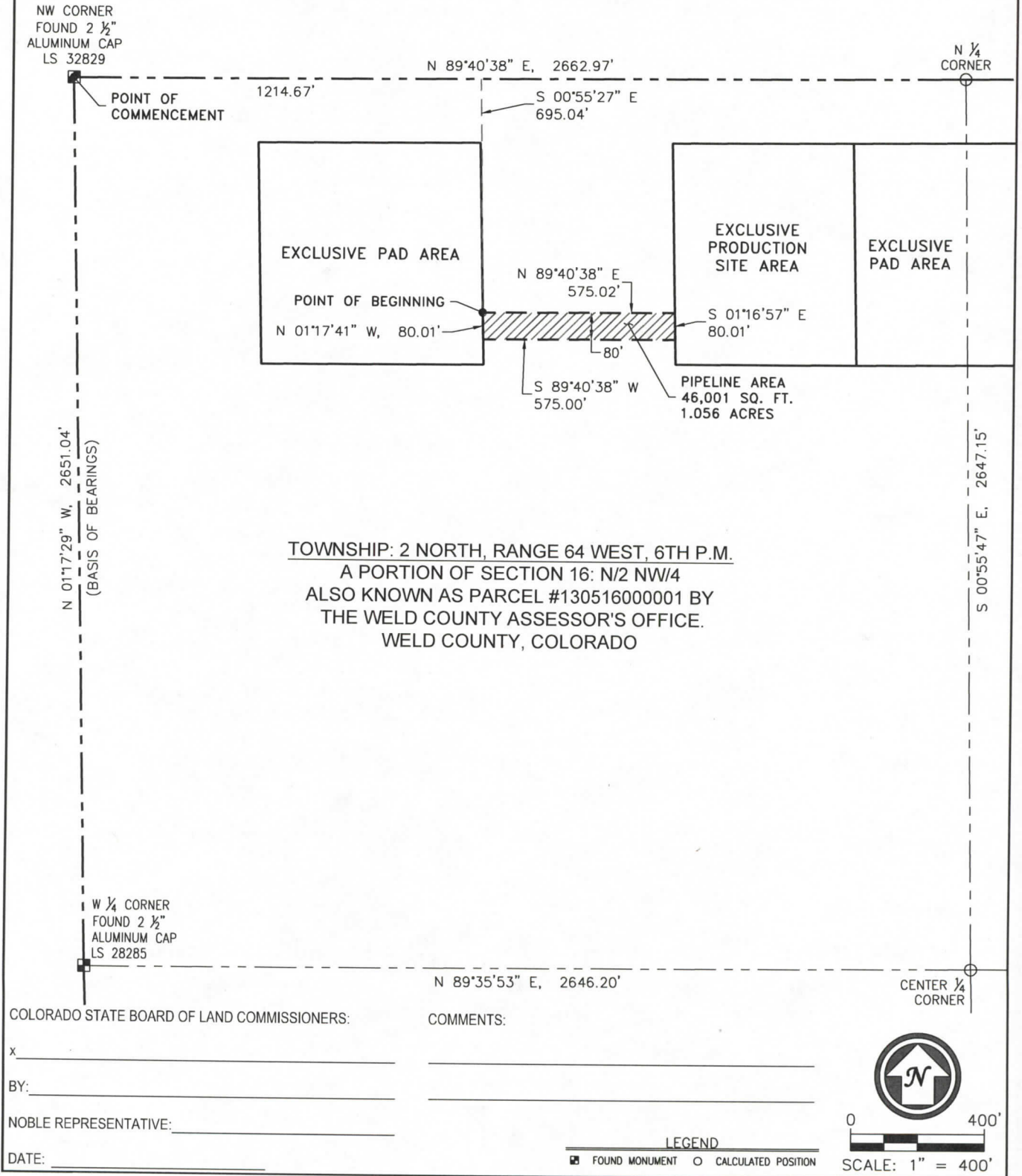
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# Second Amendment Exhibit A

## AMENDED EXHIBIT A-3

### PIPELINE AREA

ATTACHED TO AND BE REFERENCE MADE A PART OF THAT CERTAIN  
SURFACE USE AGREEMENT DATED DECEMBER 10, 2014.  
(SHEET 2 OF 2)





## Second Amendment Exhibit A

### LEGAL DESCRIPTION

#### PIPELINE AREA - EXHIBIT A-4

A PORTION OF PARCEL 130516000001, AS RECORDED IN THE WELD COUNTY ACCESSORS OFFICE, LYING WITHIN THE NORTH HALF OF THE NORTH HALF OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NORTH QUARTER CORNER, THENCE NORTH 89°40'38" EAST, A DISTANCE OF 289.45 FEET ALONG THE NORTH LINE OF NORTHEAST ONE-QUARTER OF SECTION 16;

THENCE DEPARTING SAID SECTION LINE, SOUTH 00°19'22" EAST, A DISTANCE OF 265.00 FEET TO THE **POINT OF BEGINNING**;

THENCE NORTH 89°40'38" EAST, A DISTANCE OF 1112.67 FEET;

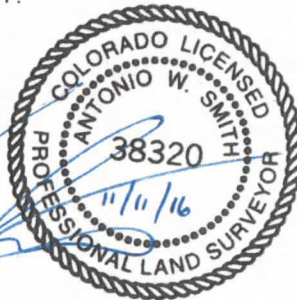
THENCE SOUTH 01°17'13" EAST, A DISTANCE OF 80.01 FEET;

THENCE SOUTH 89°40'38" WEST, A DISTANCE OF 1112.68 FEET;

THENCED NORTH 01°16'56" WEST, A DISTANCE OF 80.01 FEET TO THE **POINT OF BEGINNING**.

**CONTAINING:** 89,014 SQUARE FEET / 2.043 ACRES

**BASIS OF BEARINGS:** BEARINGS ARE BASED ON THE WEST LINE OF THE NORTH HALF OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, SIXTH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, AS MONUMENTED AT THE NORTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 32829 AND AT THE SOUTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 28285. SAID LINE IS ASSUMED TO BEAR NORTH 01°17'29" WEST, BEING A GRID BEARING OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983/2007.



ANTONIO W. SMITH, PLS  
COLORADO REG. NO. 38320  
FOR AND ON BEHALF OF  
R&R ENGINEERS-SURVEYORS, INC.

SHEET 1 of 2

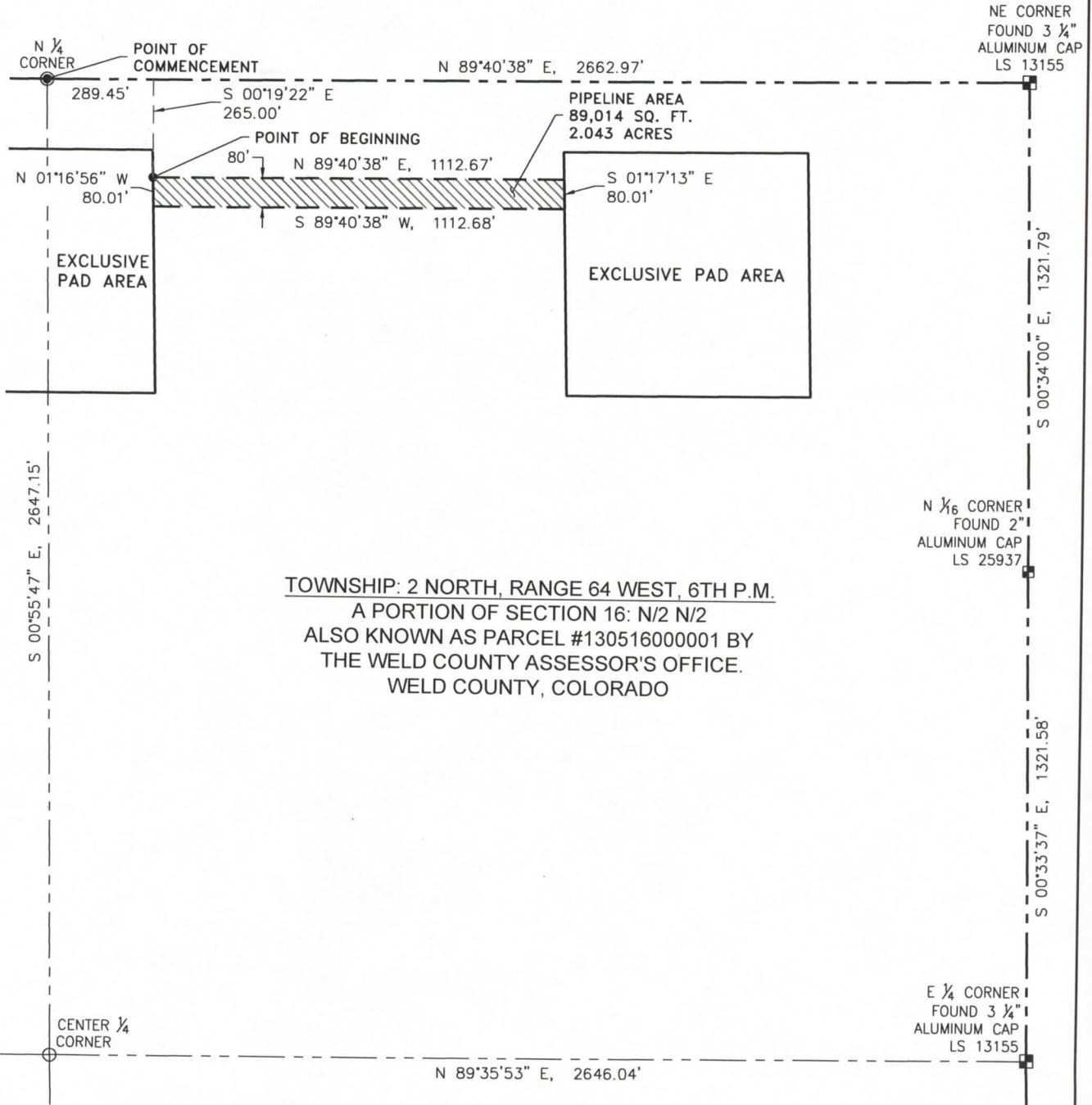
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# Second Amendment Exhibit A

## AMENDED EXHIBIT A-4

### PIPELINE AREA

ATTACHED TO AND BE REFERENCE MADE A PART OF THAT CERTAIN  
SURFACE USE AGREEMENT DATED DECEMBER 10, 2014.  
(SHEET 2 OF 2)



TOWNSHIP: 2 NORTH, RANGE 64 WEST, 6TH P.M.  
A PORTION OF SECTION 16: N/2 N/2  
ALSO KNOWN AS PARCEL #130516000001 BY  
THE WELD COUNTY ASSESSOR'S OFFICE.  
WELD COUNTY, COLORADO

COLORADO STATE BOARD OF LAND COMMISSIONERS:

COMMENTS:

x \_\_\_\_\_

BY: \_\_\_\_\_

NOBLE REPRESENTATIVE: \_\_\_\_\_

DATE: \_\_\_\_\_

LEGEND  
■ FOUND MONUMENT ○ CALCULATED POSITION



0 400'  
SCALE: 1" = 400'

## Second Amendment Exhibit A

### LEGAL DESCRIPTION

#### PIPELINE AREA - EXHIBIT A-5

A PORTION OF PARCEL 130516000001, AS RECORDED IN THE WELD COUNTY ACCESSORS OFFICE, LYING WITHIN THE NORTH HALF OF THE NORTH HALF OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NORTH QUARTER CORNER, THENCE NORTH 89°40'38" EAST, A DISTANCE OF 296.65 FEET ALONG THE NORTH LINE OF THE NORTHEAST ONE-QUARTER OF SECTION 16;

THENCE DEPARTING SAID SECTION LINE, SOUTH 00°19'22" EAST, A DISTANCE OF 695.00 FEET TO THE POINT OF BEGINNING;

THENCE NORTH 89°40'38" EAST, A DISTANCE OF 1112.71 FEET;

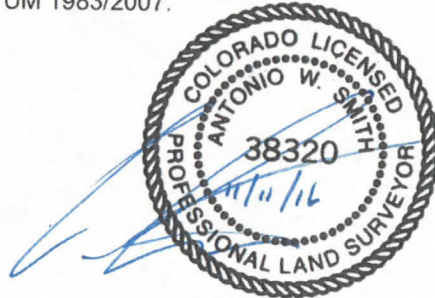
THENCE SOUTH 01°17'13" EAST, A DISTANCE OF 80.01 FEET;

THENCE SOUTH 89°40'38" WEST, A DISTANCE OF 1112.71 FEET;

THENCE NORTH 01°16'56" WEST, A DISTANCE OF 80.01 FEET TO THE **POINT OF BEGINNING**.

**CONTAINING:** 89,017 SQUARE FEET / 2.044 ACRES

**BASIS OF BEARINGS:** BEARINGS ARE BASED ON THE WEST LINE OF THE NORTH HALF OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, SIXTH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, AS MONUMENTED AT THE NORTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 32829 AND AT THE SOUTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 28285. SAID LINE IS ASSUMED TO BEAR NORTH 01°17'29" WEST, BEING A GRID BEARING OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983/2007.



ANTONIO W. SMITH, PLS  
COLORADO REG. NO. 38320  
FOR AND ON BEHALF OF  
R&R ENGINEERS-SURVEYORS, INC.

SHEET 1 of 2

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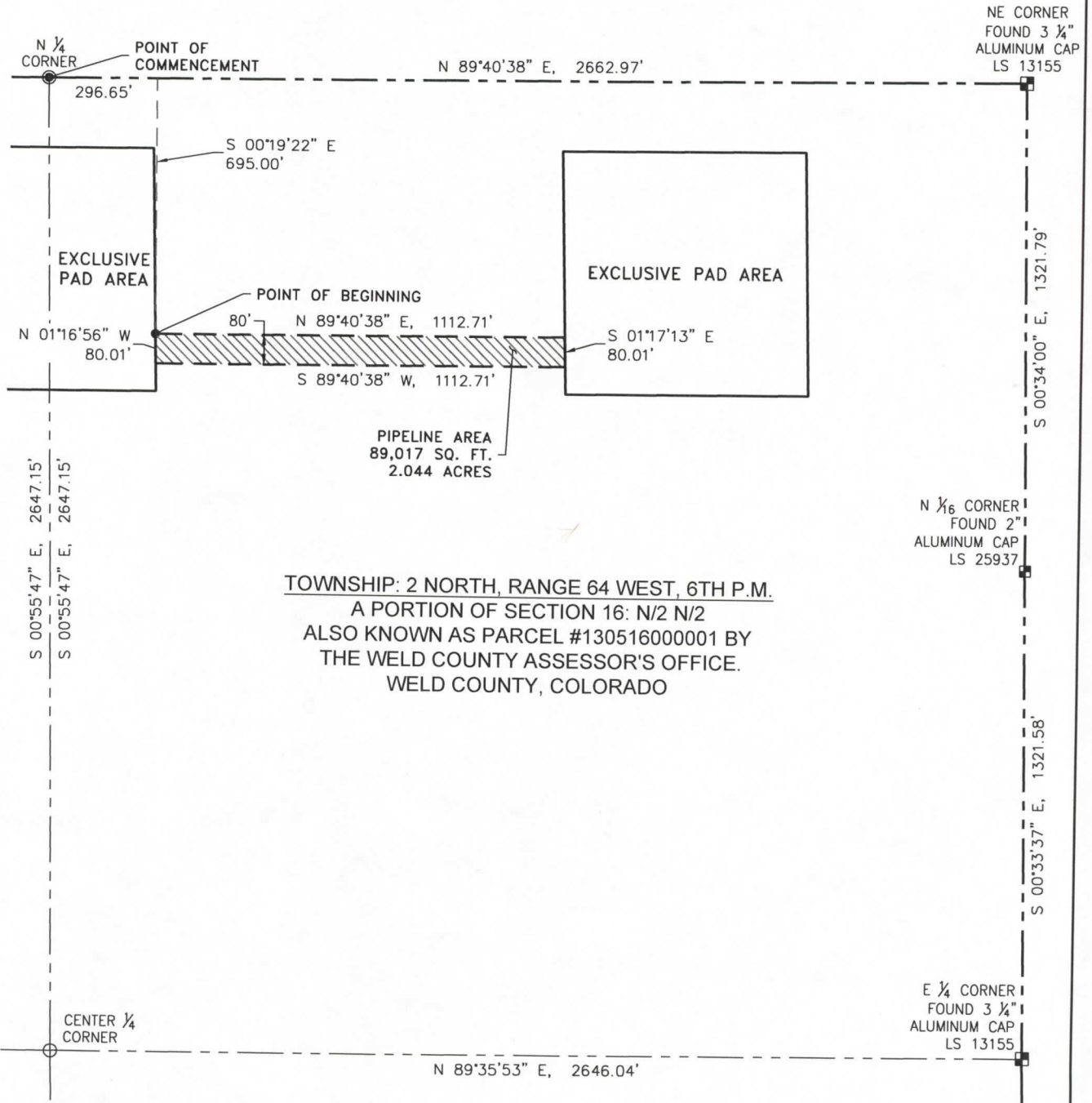


# Second Amendment Exhibit A

## AMENDED EXHIBIT A-5

### PIPELINE AREA

ATTACHED TO AND BE REFERENCE MADE A PART OF THAT CERTAIN  
SURFACE USE AGREEMENT DATED DECEMBER 10, 2014.  
(SHEET 2 OF 2)



TOWNSHIP: 2 NORTH, RANGE 64 WEST, 6TH P.M.  
A PORTION OF SECTION 16: N/2 N/2  
ALSO KNOWN AS PARCEL #130516000001 BY  
THE WELD COUNTY ASSESSOR'S OFFICE.  
WELD COUNTY, COLORADO

COLORADO STATE BOARD OF LAND COMMISSIONERS:

COMMENTS:

x \_\_\_\_\_

BY: \_\_\_\_\_

NOBLE REPRESENTATIVE: \_\_\_\_\_

DATE: \_\_\_\_\_

#### LEGEND

■ FOUND MONUMENT ○ CALCULATED POSITION



0 400'  
SCALE: 1" = 400'

## Second Amendment Exhibit A

### LEGAL DESCRIPTION

#### **EXCLUSIVE PAD AREA - EXHIBIT A-6**

A PORTION OF PARCEL 130516000001, AS RECORDED IN THE WELD COUNTY ACCESSORS OFFICE, LYING WITHIN THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NORTHWEST CORNER OF SAID SECTION 16, THENCE NORTH 89°40'38" EAST, A DISTANCE OF 553.29 FEET ALONG THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 16;

THENCE DEPARTING SAID SECTION LINE SOUTH 00°19'22" EAST, A DISTANCE OF 190.00 FEET TO THE **POINT OF BEGINNING**;

THENCE NORTH 89°40'38" EAST, A DISTANCE OF 660.11 FEET;

THENCE SOUTH 01°17'41" EAST, A DISTANCE OF 660.11 FEET;

THENCE SOUTH 89°40'34" WEST, A DISTANCE OF 660.09 FEET;

THENCE NORTH 01°17'47" WEST, A DISTANCE OF 660.13 FEET TO THE **POINT OF BEGINNING**.

**CONTAINING:** 435,683 SQUARE FEET / 10.002 ACRES

**BASIS OF BEARINGS:** BEARINGS ARE BASED ON THE WEST LINE OF THE NORTH HALF OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, SIXTH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, AS MONUMENTED AT THE NORTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 32829 AND AT THE SOUTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 28285. SAID LINE IS ASSUMED TO BEAR NORTH 01°17'29" WEST, BEING A GRID BEARING OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983/2007.



ANTONIO W. SMITH, PLS  
COLORADO REG. NO. 38320  
FOR AND ON BEHALF OF  
R&R ENGINEERS-SURVEYORS, INC.

SHEET 1 of 2

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# Second Amendment Exhibit A

## AMENDED EXHIBIT A-6

### EXCLUSIVE PAD AREA

ATTACHED TO AND BE REFERENCE MADE A PART OF THAT CERTAIN  
SURFACE USE AGREEMENT DATED DECEMBER 10, 2014.  
(SHEET 2 OF 2)

NW CORNER  
FOUND 2 1/2"  
ALUMINUM CAP  
LS 32829

N 89°40'38" E, 2662.97'

N 1/4  
CORNER

553.29'  
POINT OF  
COMMENCEMENT  
POINT OF  
BEGINNING

S 00°19'22" E, 190.00'

N 89°40'38" E, 660.11'

N 01°17'47" W, 660.13'

EXCLUSIVE PAD AREA  
435,683 SQ. FT.  
10.002 ACRES

S 01°17'41" E, 660.11'

S 89°40'34" W, 660.09'

EXCLUSIVE  
PRODUCTION  
SITE AREA

EXCLUSIVE  
PAD AREA

N 01°17'29" W, 2651.04'  
(BASIS OF BEARINGS)

TOWNSHIP: 2 NORTH, RANGE 64 WEST, 6TH P.M.  
A PORTION OF SECTION 16: NW/4 NW/4  
ALSO KNOWN AS PARCEL #130516000001 BY  
THE WELD COUNTY ASSESSOR'S OFFICE.  
WELD COUNTY, COLORADO

S 00°55'47" E, 2647.15'

W 1/4 CORNER  
FOUND 2 1/2"  
ALUMINUM CAP  
LS 28285

N 89°35'53" E, 2646.20'

CENTER 1/4  
CORNER

COLORADO STATE BOARD OF LAND COMMISSIONERS:

COMMENTS:

x \_\_\_\_\_

BY: \_\_\_\_\_

NOBLE REPRESENTATIVE: \_\_\_\_\_

DATE: \_\_\_\_\_

#### LEGEND

■ FOUND MONUMENT ○ CALCULATED POSITION



0 400'  
SCALE: 1" = 400'

## Second Amendment Exhibit A

### LEGAL DESCRIPTION

#### **EXCLUSIVE PAD AREA - EXHIBIT A-7**

A PORTION OF PARCEL 130516000001, AS RECORDED IN THE WELD COUNTY ACCESSORS OFFICE, LYING WITHIN THE NORTH HALF OF THE NORTH HALF OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NORTHWEST CORNER OF SAID SECTION 16, THENCE NORTH 89°40'38" EAST, A DISTANCE OF 1788.52 FEET ALONG THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 16;

THENCE DEPARTING SAID SECTION LINE SOUTH 00°19'22" EAST, A DISTANCE OF 190.00 FEET TO THE **POINT OF BEGINNING**;

THENCE NORTH 89°40'38" EAST, A DISTANCE OF 1162.65 FEET;

THENCE SOUTH 01°16'56" EAST, A DISTANCE OF 660.02 FEET;

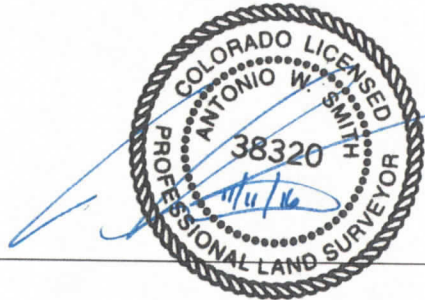
THENCE SOUTH 89°40'12" WEST, A DISTANCE OF 622.57 FEET;

THENCE SOUTH 89°46'33" WEST, A DISTANCE OF 540.09 FEET;

THENCE NORTH 01°16'57" WEST, A DISTANCE OF 659.17 FEET TO THE **POINT OF BEGINNING**.

**CONTAINING:** 767,082 SQUARE FEET / 17.610 ACRES

**BASIS OF BEARINGS:** BEARINGS ARE BASED ON THE WEST LINE OF THE NORTH HALF OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, SIXTH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, AS MONUMENTED AT THE NORTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 32829 AND AT THE SOUTH END BY A TWO AND A HALF (2-½) INCH ALUMINUM CAP STAMPED LS 28285. SAID LINE IS ASSUMED TO BEAR NORTH 01°17'29" WEST, BEING A GRID BEARING OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983/2007.



ANTONIO W. SMITH, PLS  
COLORADO REG. NO. 38320  
FOR AND ON BEHALF OF  
R&R ENGINEERS-SURVEYORS, INC.

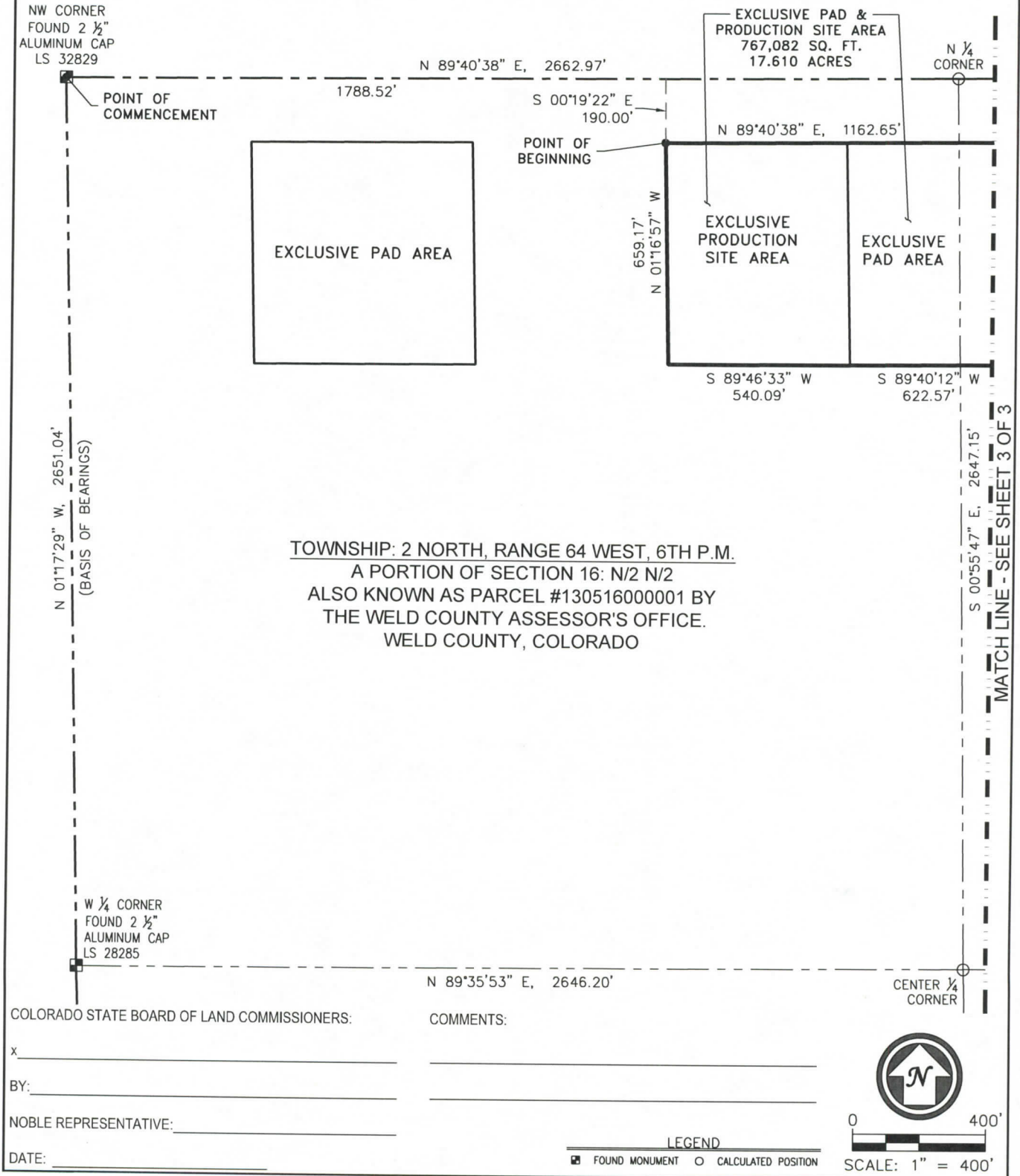
SHEET 1 of 3

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# Second Amendment Exhibit A

## AMENDED EXHIBIT A-7

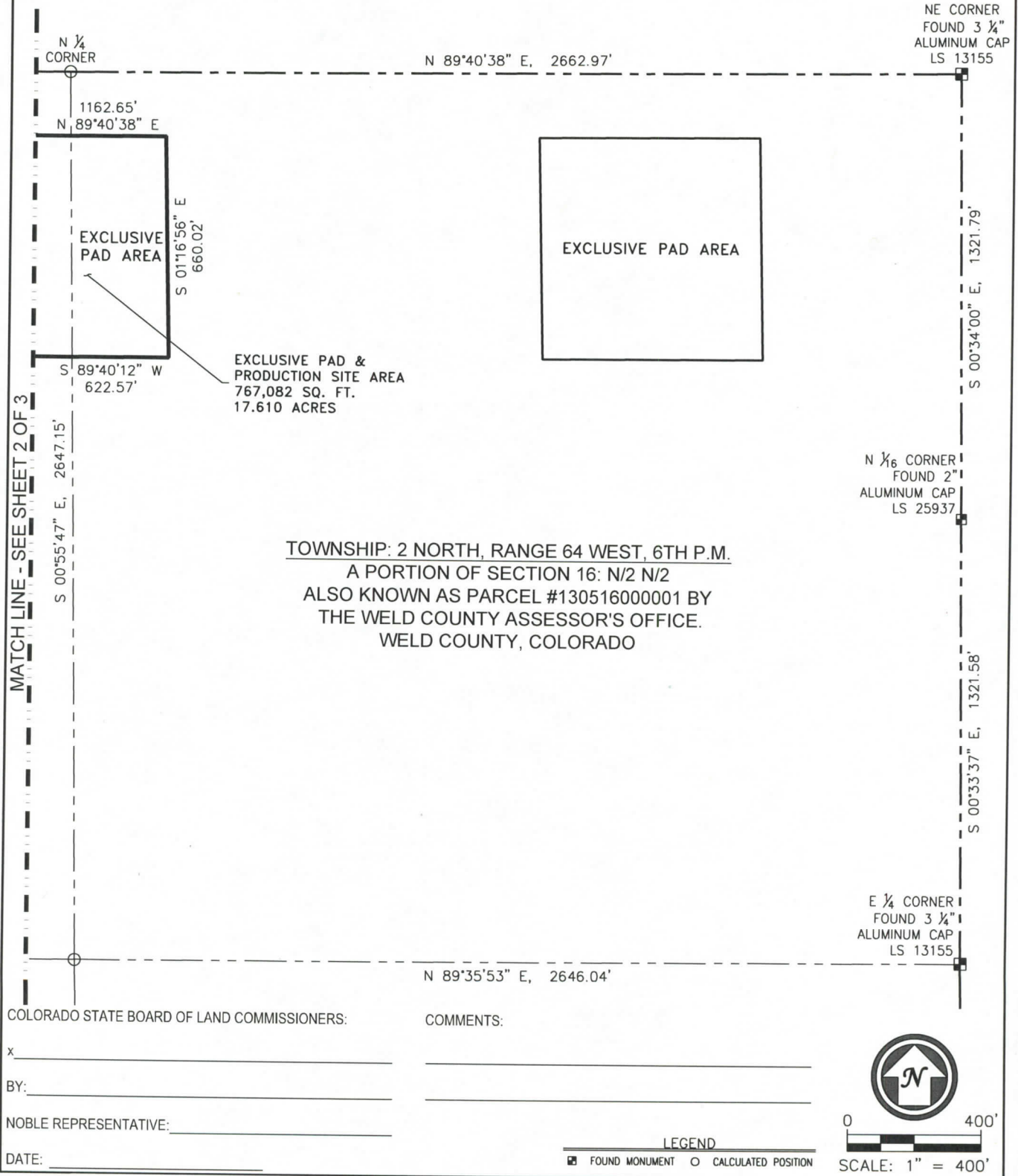
EXCLUSIVE PAD AND PRODUCTION SITE AREA  
ATTACHED TO AND BE REFERENCE MADE A PART OF THAT CERTAIN  
SURFACE USE AGREEMENT DATED DECEMBER 10, 2014.  
(SHEET 2 OF 3)



# Second Amendment Exhibit A

## AMENDED EXHIBIT A-7

EXCLUSIVE PAD AND PRODUCTION SITE AREA  
ATTACHED TO AND BE REFERENCE MADE A PART OF THAT CERTAIN  
SURFACE USE AGREEMENT DATED DECEMBER 10, 2014.  
(SHEET 3 OF 3)





## Second Amendment Exhibit A

### LEGAL DESCRIPTION

#### **EXCLUSIVE PAD AREA - EXHIBIT A-8**

A PORTION OF PARCEL 130516000001, AS RECORDED IN THE WELD COUNTY ACCESSORS OFFICE, LYING WITHIN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NORTHEAST CORNER OF SAID SECTION 16, THENCE SOUTH 89°40'38" WEST, A DISTANCE OF 602.14 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 16;

THENCE DEPARTING SAID SECTION LINE SOUTH 00°19'22" EAST, A DISTANCE OF 190.00 FEET TO THE **POINT OF BEGINNING**;

THENCE SOUTH 01°18'19" EAST, A DISTANCE OF 660.10 FEET;

THENCE SOUTH 89°40'37" WEST, A DISTANCE OF 660.18 FEET;

THENCE NORTH 01°17'13" WEST, A DISTANCE OF 660.10 FEET;

THENCE NORTH 89°40'38" EAST, A DISTANCE OF 659.97 FEET TO THE **POINT OF BEGINNING**.

**CONTAINING:** 435,658 SQUARE FEET / 10.001 ACRES

**BASIS OF BEARINGS:** BEARINGS ARE BASED ON THE EAST LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, SIXTH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, AS MONUMENTED AT THE NORTHEAST CORNER BY A THREE AND A QUARTER (3-¼) INCH ALUMINUM CAP STAMPED LS 13155 AND AT THE NORTH SIXTEENTH CORNER BY A TWO (2) INCH ALUMINUM CAP STAMPED LS 25937. SAID LINE IS ASSUMED TO BEAR SOUTH 00°34'00" EAST, BEING A GRID BEARING OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983/2007.



ANTONIO W. SMITH, PLS  
COLORADO REG. NO. 38320  
FOR AND ON BEHALF OF  
R&R ENGINEERS-SURVEYORS, INC.

SHEET 1 of 2

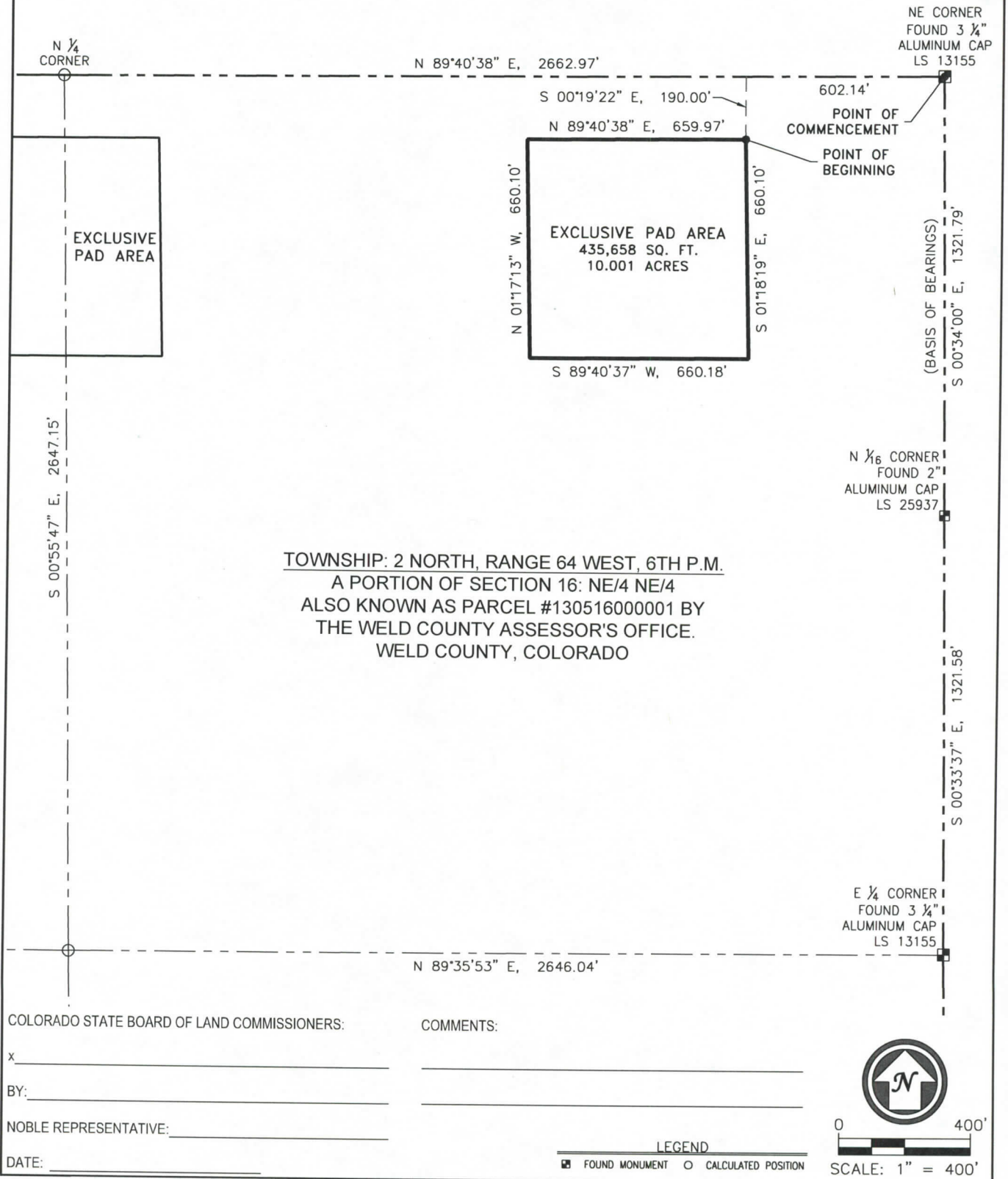
P:\Projects\NE16301-DP406 Redux\Exhibits\Legals\NE16301 Legal Description-EXH\_A-8.docx



# Second Amendment Exhibit A

## AMENDED EXHIBIT A-8

EXCLUSIVE PAD AREA  
ATTACHED TO AND BE REFERENCE MADE A PART OF THAT CERTAIN  
SURFACE USE AGREEMENT DATED DECEMBER 10, 2014.  
(SHEET 2 OF 2)



# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

## WELL LOCATION CERTIFICATE

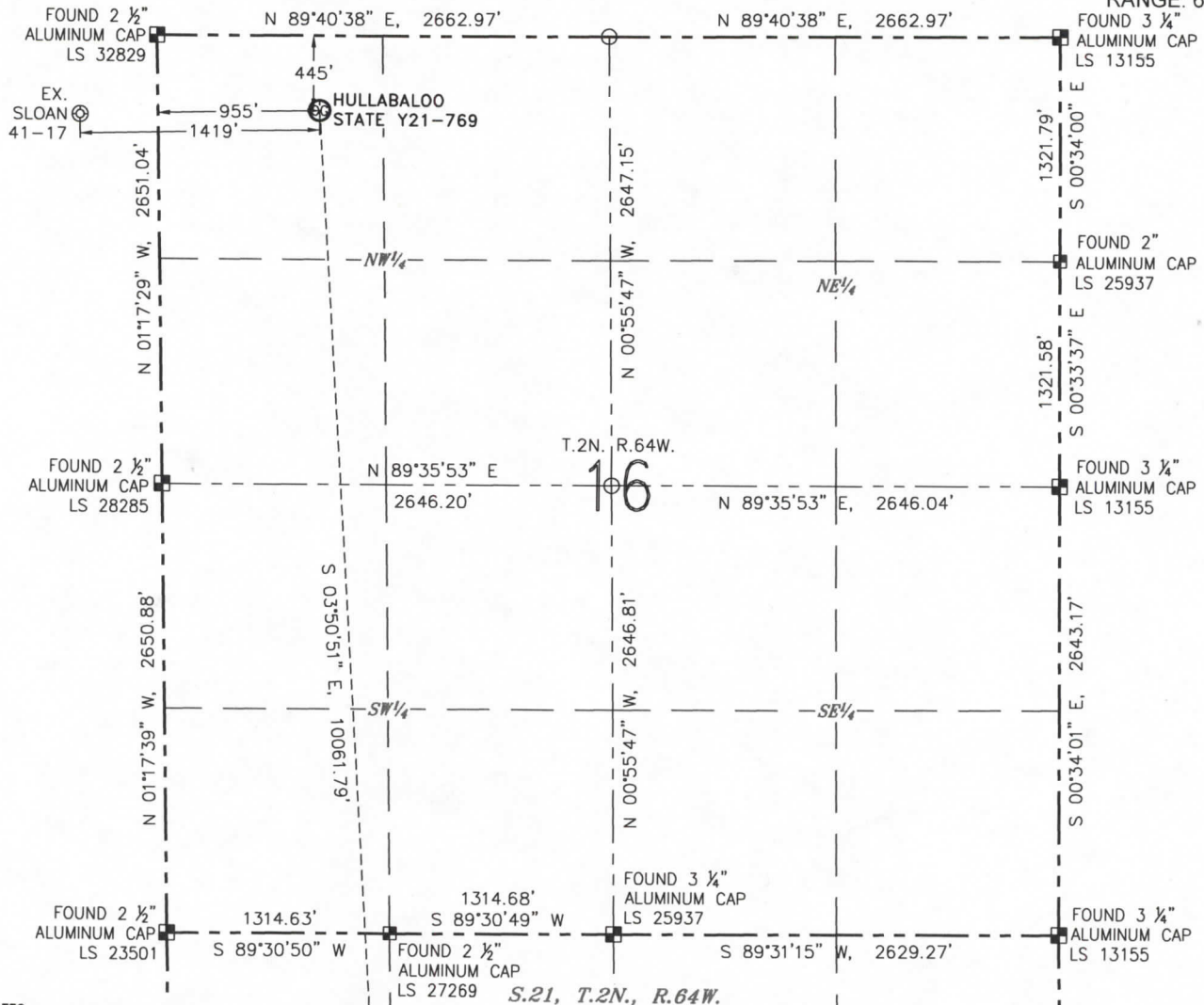
HULLABALOO STATE Y21-769

(SHEET 1 OF 2)

SECTION: 16

TOWNSHIP: 2N

RANGE: 64W



### NOTES:

1. BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83. THE LINEAL DIMENSIONS SHOWN HEREON ARE BASED UPON THE "U.S. SURVEY FOOT".
2. GROUND ELEVATIONS ARE BASED UPON NGS OPUS SOLUTION NAVD 88 DATUM COMPUTED USING GEOID09.
3. IMPROVEMENTS: SEE LOCATION DRAWING FOR ALL VISIBLE IMPROVEMENTS WITHIN 500' OF THE DISTURBED AREA.
4. SURFACE USE: RANGELAND.
5. INSTRUMENT OPERATOR: ANDY MAGGIORE.
6. THE NEAREST EXISTING WELL: SLOAN 41-17, 1419' W.

IN ACCORDANCE WITH A REQUEST FROM GREG WILSON WITH NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE HULLABALOO STATE Y21-769 WELL TO BE 445' FROM THE NORTH LINE AND 955' FROM THE WEST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, AND THE BOTTOM HOLE LOCATION TO BE 100' FROM THE SOUTH LINE AND 1395' FROM THE WEST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 09/13/2016, FOR AND ON BEHALF OF NOBLE ENERGY INC., THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENT LINES.

### SURFACE HOLE LOCATION

LATITUDE: N 40.14456°  
 LONGITUDE: W 104.56260°  
 PDOP: 2.0  
 ELEVATION: 4893'  
 1/4-1/4: NW1/4

### BOTTOM HOLE LOCATION

LATITUDE: N 40.11699°  
 LONGITUDE: W 104.56056°

### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊕ BOTTOM HOLE
- ⊞ FOUND MONUMENT
- CALCULATED POSITION



0 1000'  
 SCALE: 1" = 1000'



MEASURED FROM THE	BUILDING	BUILDING UNIT	HIGH OCCUPANCY BUILDING UNIT	DESIGNATED OUTSIDE ACTIVITY AREA	PUBLIC ROAD	ABOVEGROUND UTILITY	RAILROAD	PROPERTY LINE
PROPOSED WELLHEAD	3322' SW	3369' SW	5280'+	5280'+	4348' E (CR 55)	3341' SW	5280'+	445' N

ANTONIO W. SMITH, PLS 38320  
 FOR AND ON BEHALF OF R&R ENGINEERS-SURVEYORS, INC. DATE: 02/03/2017  
 JOB #: NE16301

## Second Amendment Exhibit A

710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

# WELL LOCATION CERTIFICATE

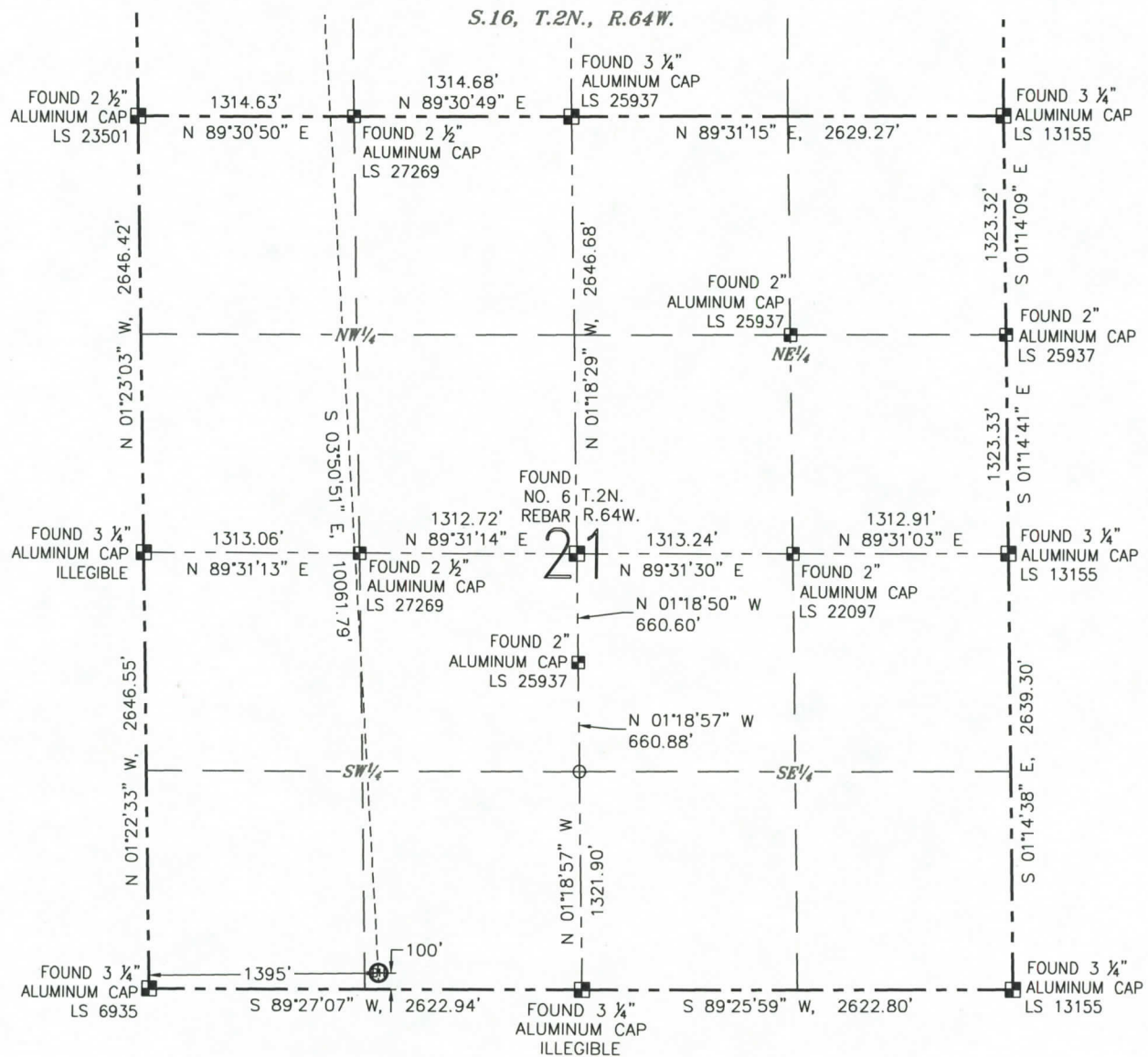
HULLABALOO STATE Y21-769

(SHEET 2 OF 2)

SECTION: 16

TOWNSHIP: 2N

RANGE: 64W



### LEGEND

- (X) PROPOSED WELL  
 (O) EXISTING WELL  
 (B) BOTTOM HOLE  
 (M) FOUND MONUMENT  
 (C) CALCULATED POSITION



0 1000

SCALE: 1" = 1000'

DATE: 02/03/2017

JOB #: NE16301



# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

## WELL LOCATION CERTIFICATE

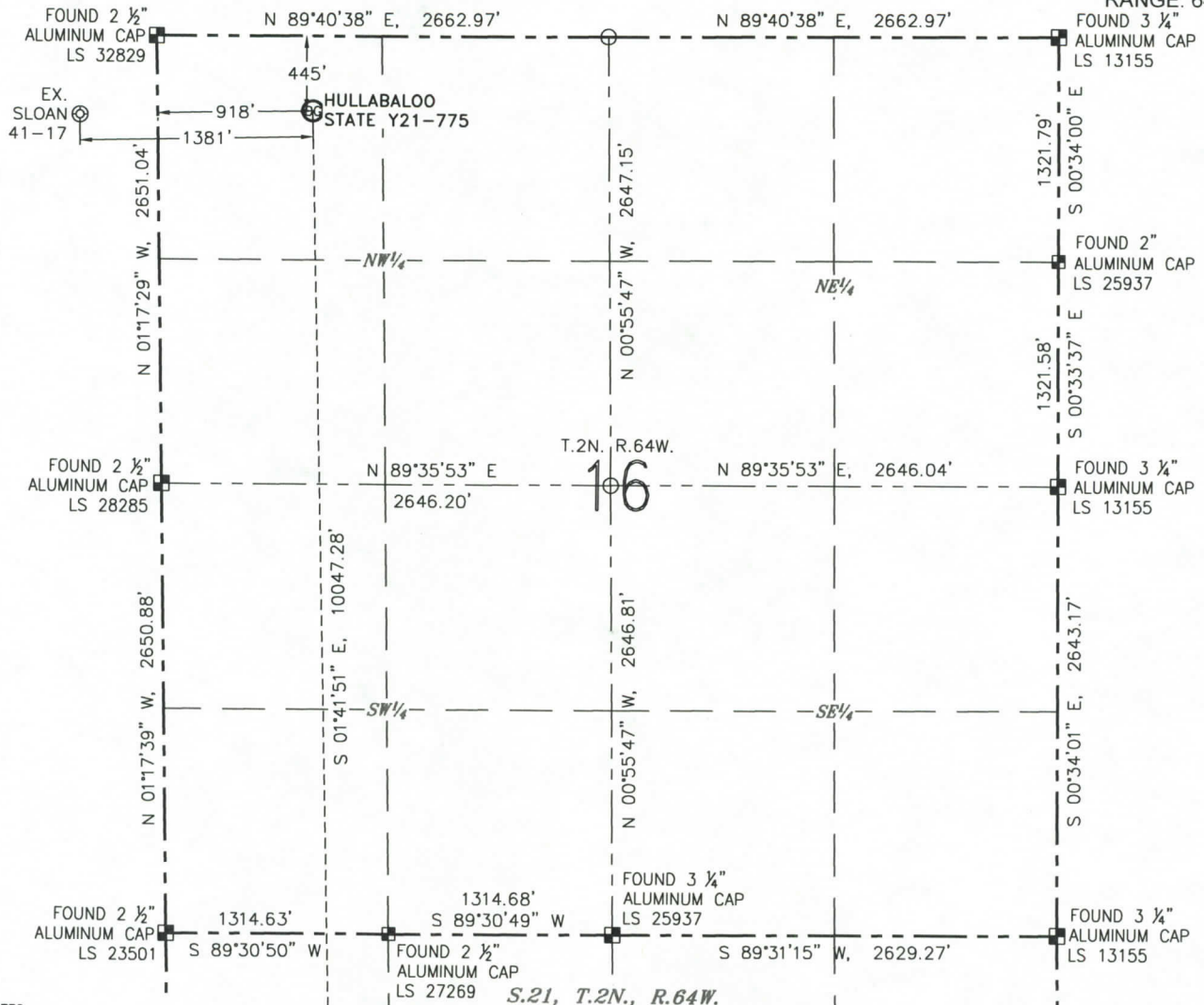
**HULLABALOO STATE Y21-775**

(SHEET 1 OF 2)

SECTION: 16

TOWNSHIP: 2N

RANGE: 64W



### NOTES:

1. BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83. THE LINEAL DIMENSIONS SHOWN HEREON ARE BASED UPON THE "U.S. SURVEY FOOT".
2. GROUND ELEVATIONS ARE BASED UPON NGS OPUS SOLUTION NAVD 88 DATUM COMPUTED USING GEOID09.
3. IMPROVEMENTS: SEE LOCATION DRAWING FOR ALL VISIBLE IMPROVEMENTS WITHIN 500' OF THE DISTURBED AREA.
4. SURFACE USE: RANGELAND.
5. INSTRUMENT OPERATOR: ANDY MAGGIORE.
6. THE NEAREST EXISTING WELL: SLOAN 41-17, 1381' W.

IN ACCORDANCE WITH A REQUEST FROM GREG WILSON WITH NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE HULLABALOO STATE Y21-775 WELL TO BE 445' FROM THE NORTH LINE AND 918' FROM THE WEST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, AND THE BOTTOM HOLE LOCATION TO BE 100' FROM THE SOUTH LINE AND 980' FROM THE WEST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 09/13/2016, FOR AND ON BEHALF OF NOBLE ENERGY INC., THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENT LINES.

### SURFACE HOLE LOCATION

LATITUDE: N 40.14456°  
LONGITUDE: W 104.56723°  
PDOP: 1.4  
ELEVATION: 4894'  
¼-¼: NW¼NW¼

### BOTTOM HOLE LOCATION

LATITUDE: N 40.11699°  
LONGITUDE: W 104.56205°

### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊙ BOTTOM HOLE
- ⊙ FOUND MONUMENT
- ⊙ CALCULATED POSITION



0 1000'  
SCALE: 1" = 1000'



MEASURED FROM THE	BUILDING	BUILDING UNIT	HIGH OCCUPANCY BUILDING UNIT	DESIGNATED OUTSIDE ACTIVITY AREA	PUBLIC ROAD	ABOVEGROUND UTILITY	RAILROAD	PROPERTY LINE
PROPOSED WELLHEAD	3310' SW	3356' SW	5280'+	5280'+	4386' E (CR 55)	3332' SW	5280'+	445' N

ANTONIO W. SMITH, PLS 38320  
FOR AND ON BEHALF OF R&R ENGINEERS-SURVEYORS, INC. DATE: 02/03/2017  
JOB #: NE16301

## Second Amendment Exhibit A

710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

# WELL LOCATION CERTIFICATE

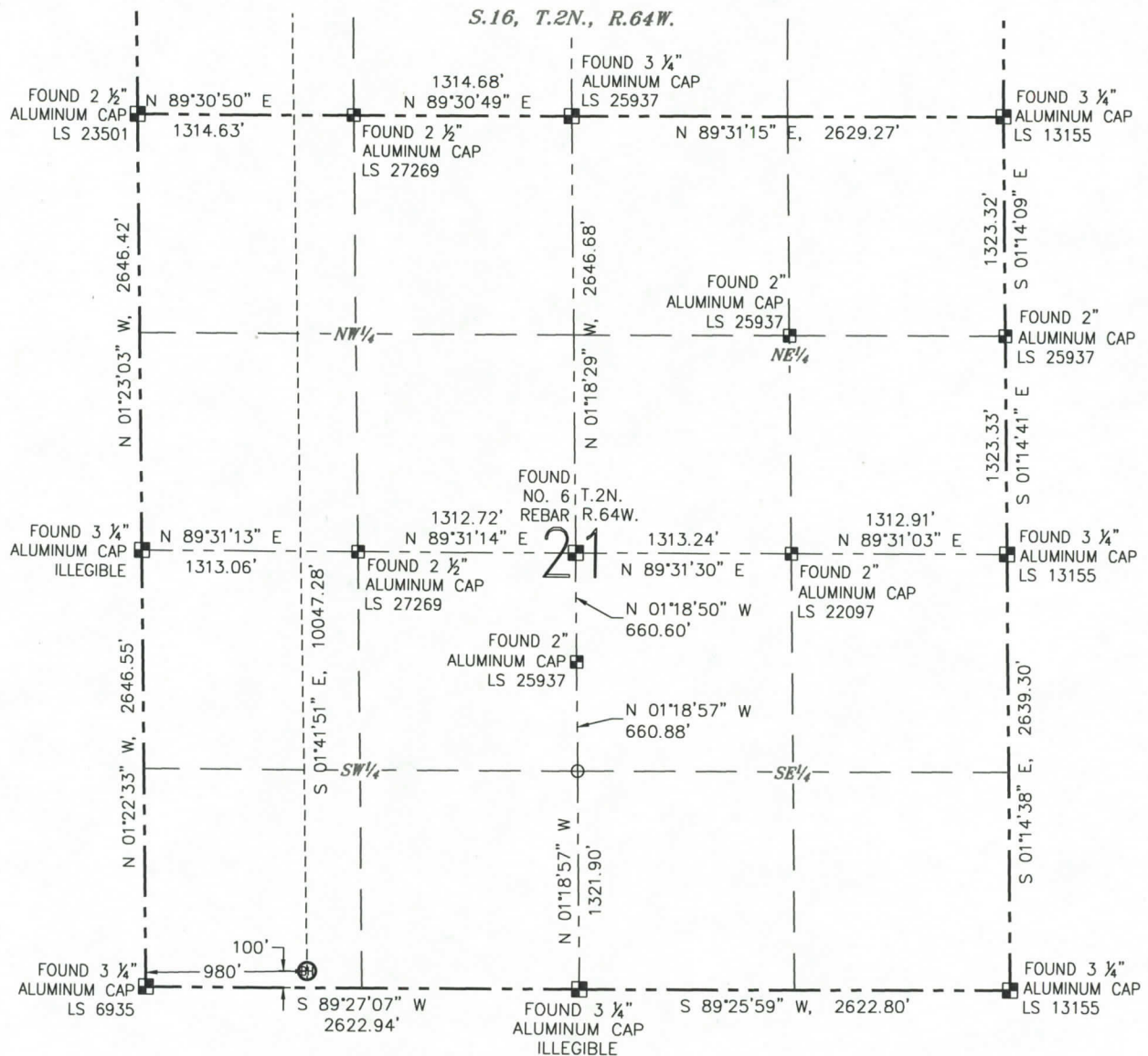
HULLABALOO STATE Y21-775

(SHEET 2 OF 2)

SECTION: 16

TOWNSHIP: 2N

RANGE: 64W



### LEGEND

- (X) PROPOSED WELL  
 (O) EXISTING WELL  
 (BH) BOTTOM HOLE  
 (FM) FOUND MONUMENT  
 (C) CALCULATED POSITION



0 1000'

SCALE: 1" = 1000'

DATE: 02/03/2017

JOB #: NE16301



# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

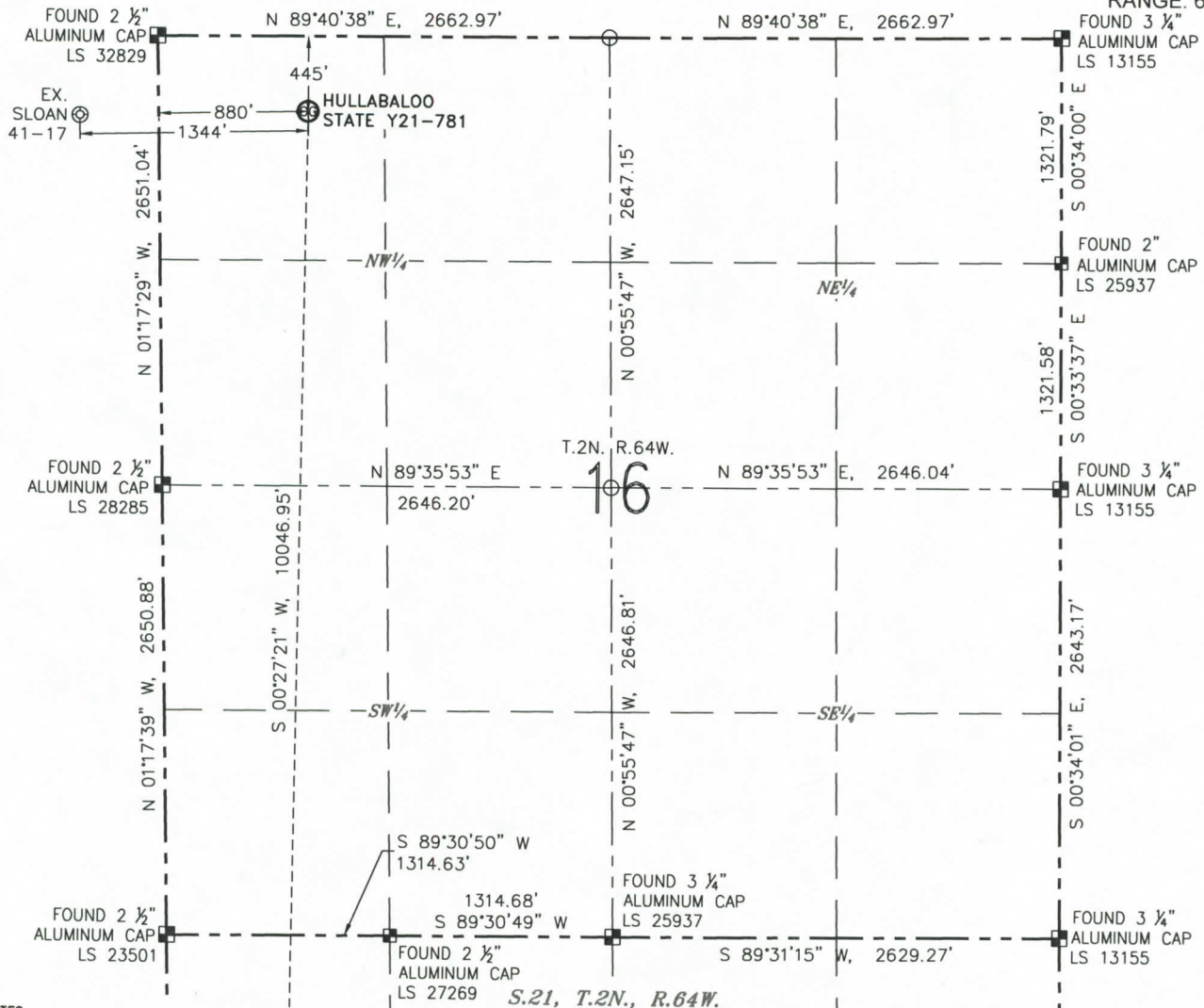
303-753-6730

## WELL LOCATION CERTIFICATE

**HULLABALOO STATE Y21-781**

(SHEET 1 OF 2)

SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W



### NOTES:

1. BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83. THE LINEAL DIMENSIONS SHOWN HEREON ARE BASED UPON THE "U.S. SURVEY FOOT".
2. GROUND ELEVATIONS ARE BASED UPON NGS OPUS SOLUTION NAVD 88 DATUM COMPUTED USING GEOID09.
3. IMPROVEMENTS: SEE LOCATION DRAWING FOR ALL VISIBLE IMPROVEMENTS WITHIN 500' OF THE DISTURBED AREA.
4. SURFACE USE: RANGELAND.
5. INSTRUMENT OPERATOR: ANDY MAGGIORE.
6. THE NEAREST EXISTING WELL: SLOAN 41-17, 1344' W.

IN ACCORDANCE WITH A REQUEST FROM GREG WILSON WITH NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE HULLABALOO STATE Y21-781 WELL TO BE 445' FROM THE NORTH LINE AND 880' FROM THE WEST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, AND THE BOTTOM HOLE LOCATION TO BE 100' FROM THE SOUTH LINE AND 565' FROM THE WEST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 09/13/2016, FOR AND ON BEHALF OF NOBLE ENERGY INC., THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENT LINES.

### SURFACE HOLE LOCATION

LATITUDE: N 40.14456'  
LONGITUDE: W 104.56286'  
PDOP: 2.0  
ELEVATION: 4894'  
1/4-1/4: NW 1/4 NW 1/4

### BOTTOM HOLE LOCATION

LATITUDE: N 40.11699'  
LONGITUDE: W 104.56353'

### LEGEND

- ⊙ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊙ BOTTOM HOLE
- ⊙ FOUND MONUMENT
- CALCULATED POSITION



0 1000'  
SCALE: 1" = 1000'



MEASURED FROM THE	BUILDING	BUILDING UNIT	HIGH OCCUPANCY BUILDING UNIT	DESIGNATED OUTSIDE ACTIVITY AREA	PUBLIC ROAD	ABOVEGROUND UTILITY	RAILROAD	PROPERTY LINE
PROPOSED WELLHEAD	3298' SW	3344' SW	5280'+	5280'+	4423' E (CR 55)	3323' SW	5280'+	445' N

ANTONIO W. SMITH, PLS 38320  
FOR AND ON BEHALF OF R&R ENGINEERS-SURVEYORS, INC. DATE: 02/10/2017  
JOB #: NE16301

# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

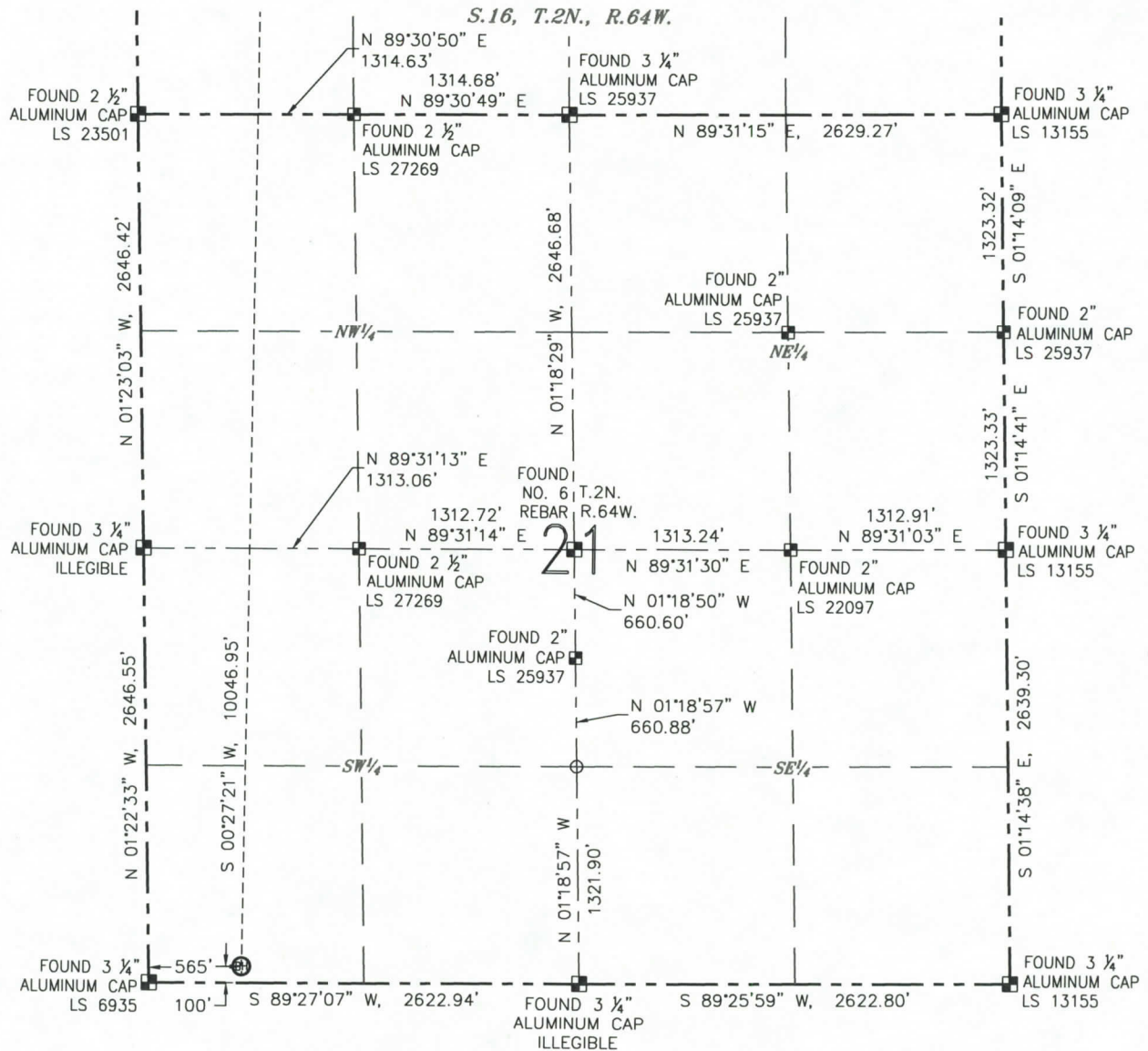
303-753-6730

## WELL LOCATION CERTIFICATE

HULLABALOO STATE Y21-781

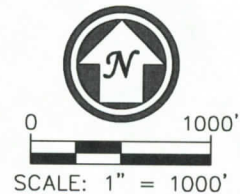
(SHEET 2 OF 2)

SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W



### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊕ BOTTOM HOLE
- FOUND MONUMENT
- CALCULATED POSITION



DATE: 02/10/2017  
JOB #: NE16301



# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

## WELL LOCATION CERTIFICATE

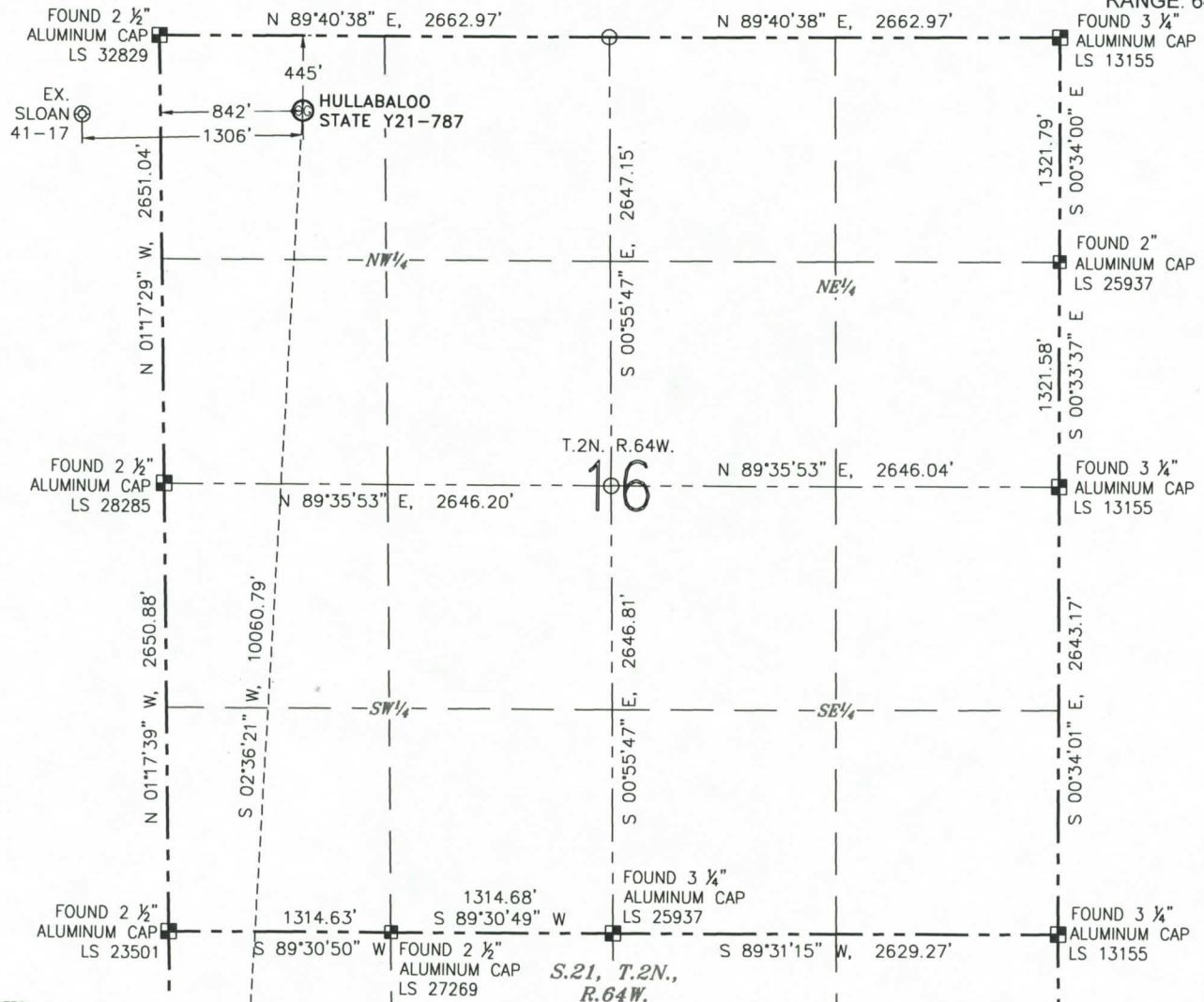
HULLABALOO STATE Y21-787

(SHEET 1 OF 2)

SECTION: 16

TOWNSHIP: 2N

RANGE: 64W



### NOTES:

- BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83. THE LINEAL DIMENSIONS SHOWN HEREON ARE BASED UPON THE "U.S. SURVEY FOOT".
- GROUND ELEVATIONS ARE BASED UPON NGS OPUS SOLUTION NAVD 88 DATUM COMPUTED USING GEOID09.
- IMPROVEMENTS: SEE LOCATION DRAWING FOR ALL VISIBLE IMPROVEMENTS WITHIN 500' OF THE DISTURBED AREA.
- SURFACE USE: RANGELAND.
- INSTRUMENT OPERATOR: ANDY MAGGIORE.
- THE NEAREST EXISTING WELL: SLOAN 41-17, 1306' W.

IN ACCORDANCE WITH A REQUEST FROM GREG WILSON WITH NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE HULLABALOO STATE Y21-787 WELL TO BE 445' FROM THE NORTH LINE AND 842' FROM THE WEST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, AND THE BOTTOM HOLE LOCATION TO BE 100' FROM THE SOUTH LINE AND 150' FROM THE WEST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 09/13/2016, FOR AND ON BEHALF OF NOBLE ENERGY INC., THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENT LINES.

### SURFACE HOLE LOCATION

LATITUDE: N 40.14457°  
 LONGITUDE: W 104.56300°  
 PDOP: 1.5  
 ELEVATION: 4893'  
 1/4-1/4: NW 1/4 NW 1/4

### BOTTOM HOLE LOCATION

LATITUDE: N 40.11699°  
 LONGITUDE: W 104.56502°

### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊙ BOTTOM HOLE
- ⊙ FOUND MONUMENT
- CALCULATED POSITION



0 1000'

SCALE: 1" = 1000'



MEASURED FROM THE	BUILDING	BUILDING UNIT	HIGH OCCUPANCY BUILDING UNIT	DESIGNATED OUTSIDE ACTIVITY AREA	PUBLIC ROAD	ABOVEGROUND UTILITY	RAILROAD	PROPERTY LINE
PROPOSED WELLHEAD	3286' SW	3332' SW	5280'+	5280'+	4461' E (CR 55)	3314' SW	5280'+	445' N

ANTONIO W. SMITH, PLS 38320  
 FOR AND ON BEHALF OF R&R ENGINEERS-SURVEYORS, INC.

DATE: 02/03/2017  
 JOB #: NE16301

## Second Amendment Exhibit A

710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

# WELL LOCATION CERTIFICATE

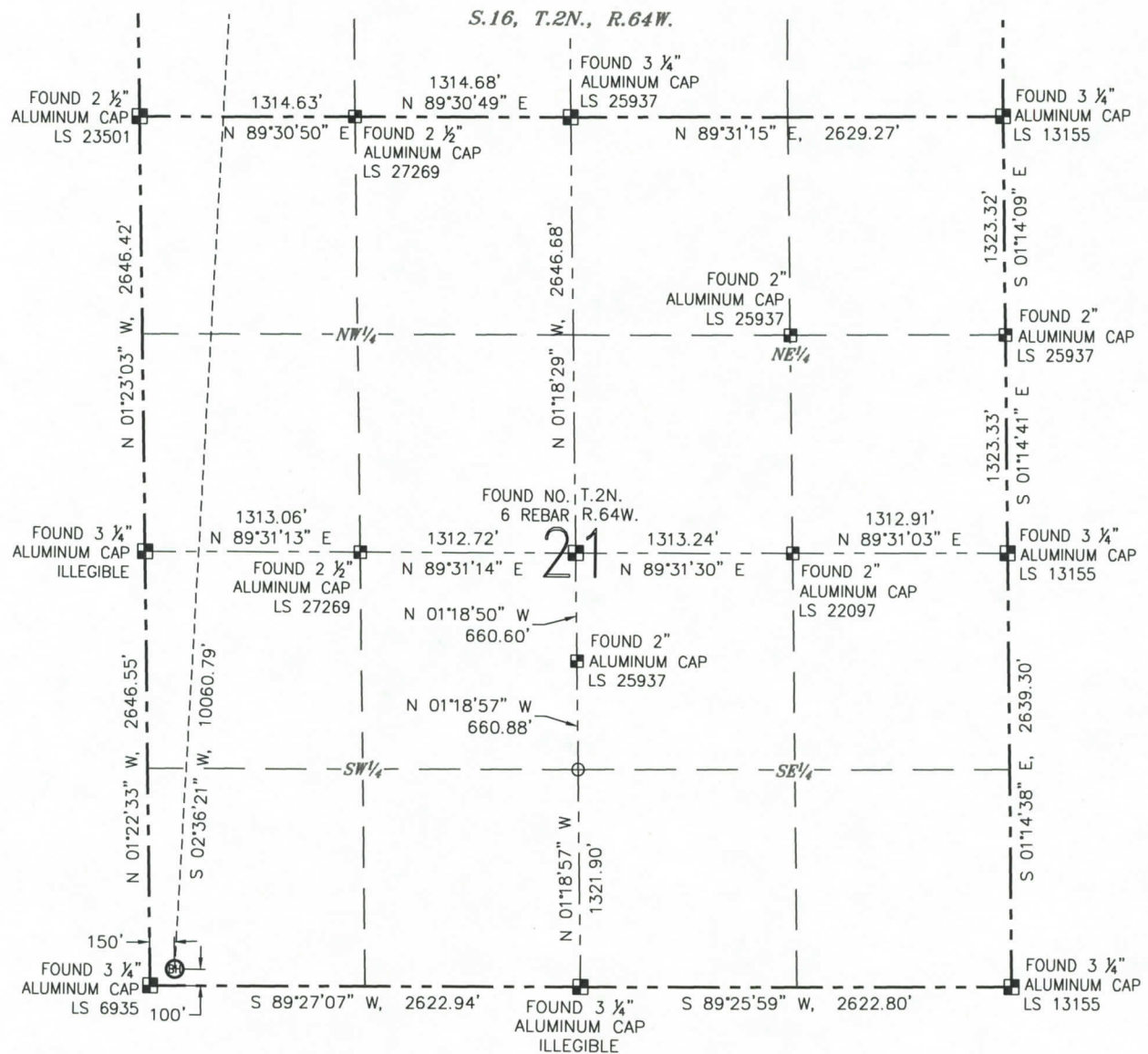
HULLABALOO STATE Y21-787

(SHEET 2 OF 2)

SECTION: 16

TOWNSHIP: 2N

RANGE: 64W



### LEGEND

- ⊗ PROPOSED WELL  
 ⊙ EXISTING WELL  
 ⊕ BOTTOM HOLE  
 ■ FOUND MONUMENT  
 ○ CALCULATED POSITION



0 1000'

SCALE: 1" = 1000'

DATE: 02/03/2017

JOB #: NE16301



# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

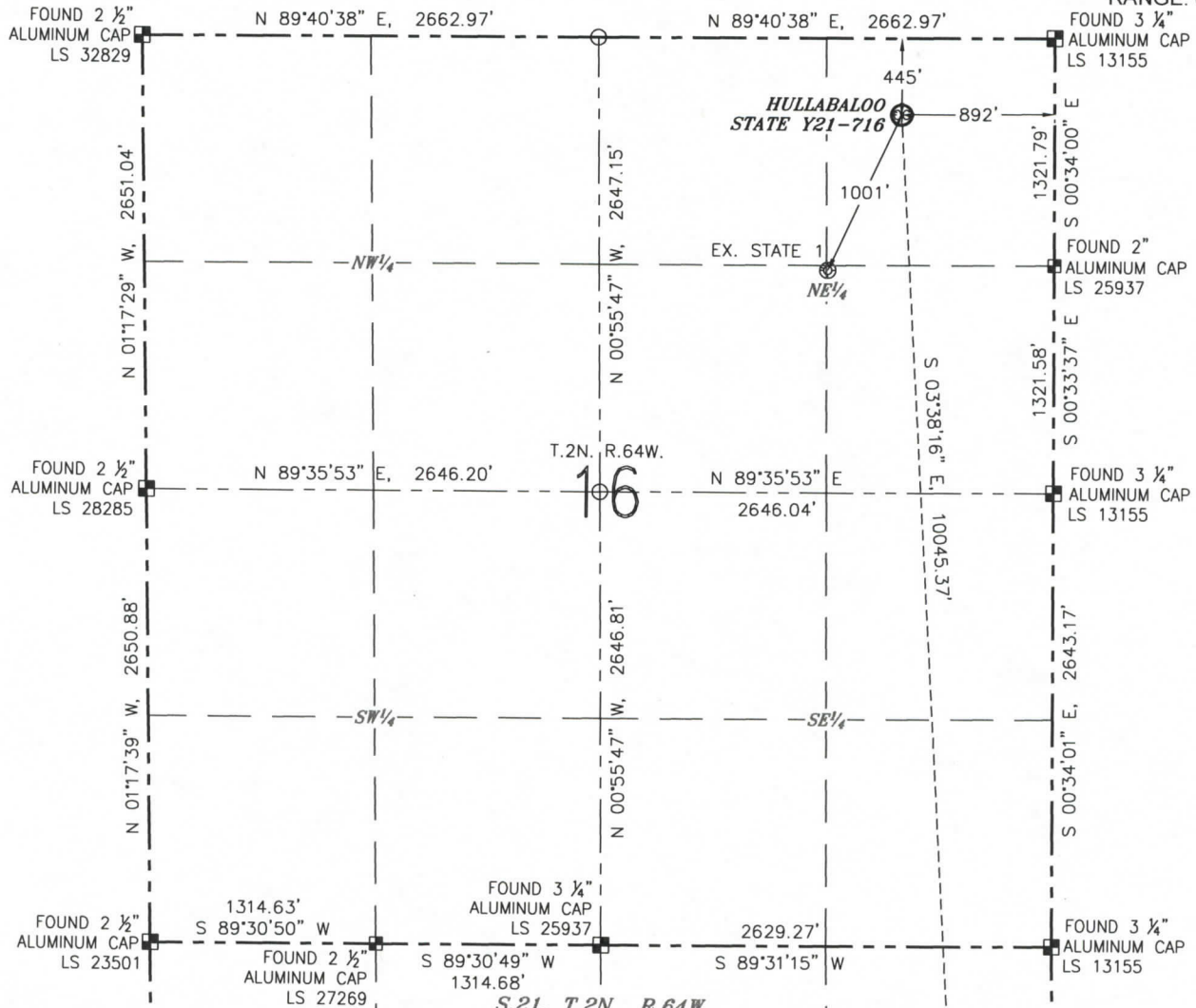
303-753-6730

## WELL LOCATION CERTIFICATE

**HULLABALOO STATE Y21-716**

(SHEET 1 OF 2)

SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W



### NOTES:

1. BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83. THE LINEAL DIMENSIONS SHOWN HEREON ARE BASED UPON THE "U.S. SURVEY FOOT".
2. GROUND ELEVATIONS ARE BASED UPON NGS OPUS SOLUTION NAVD 88 DATUM COMPUTED USING GEOID09.
3. IMPROVEMENTS: SEE LOCATION DRAWING FOR ALL VISIBLE IMPROVEMENTS WITHIN 500' OF THE DISTURBED AREA.
4. SURFACE USE: RANGELAND.
5. INSTRUMENT OPERATOR: ANDY MAGGIORE.
6. THE NEAREST EXISTING WELL: STATE 1, 1001' SW.

IN ACCORDANCE WITH A REQUEST FROM GREG WILSON WITH NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE HULLABALOO STATE Y21-716 WELL TO BE 445' FROM THE NORTH LINE AND 892' FROM THE EAST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, AND THE BOTTOM HOLE LOCATION TO BE 100' FROM THE SOUTH LINE AND 415' FROM THE EAST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 09/13/2016, FOR AND ON BEHALF OF NOBLE ENERGY INC., THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENT LINES.

### LEGEND

- ⊙ PROPOSED WELL
- ⊗ EXISTING WELL
- ⊙ BOTTOM HOLE
- ⊗ FOUND MONUMENT
- CALCULATED POSITION



0 1000'  
SCALE: 1" = 1000'

### SURFACE HOLE LOCATION

LATITUDE: N 40.14452°  
LONGITUDE: W 104.55018°  
PDOP: 2.2  
ELEVATION: 4946'  
¼-¼: NE¼NE¼

### BOTTOM HOLE LOCATION

LATITUDE: N 40.11698°  
LONGITUDE: W 104.54828°

MEASURED FROM THE	BUILDING	BUILDING UNIT	HIGH OCCUPANCY BUILDING UNIT	DESIGNATED OUTSIDE ACTIVITY AREA	PUBLIC ROAD	ABOVEGROUND UTILITY	RAILROAD	PROPERTY LINE
PROPOSED WELLHEAD	917' NE	1636' SE	5280'+	5280'+	875' E (CR 55)	863' E	5280'+	445' N

ANTONIO W. SMITH, PLS 38320  
FOR AND ON BEHALF OF R&R ENGINEERS-SURVEYORS, INC. DATE: 02/06/2017  
JOB #: NE16301

## Second Amendment Exhibit A

R&amp;R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

# WELL LOCATION CERTIFICATE

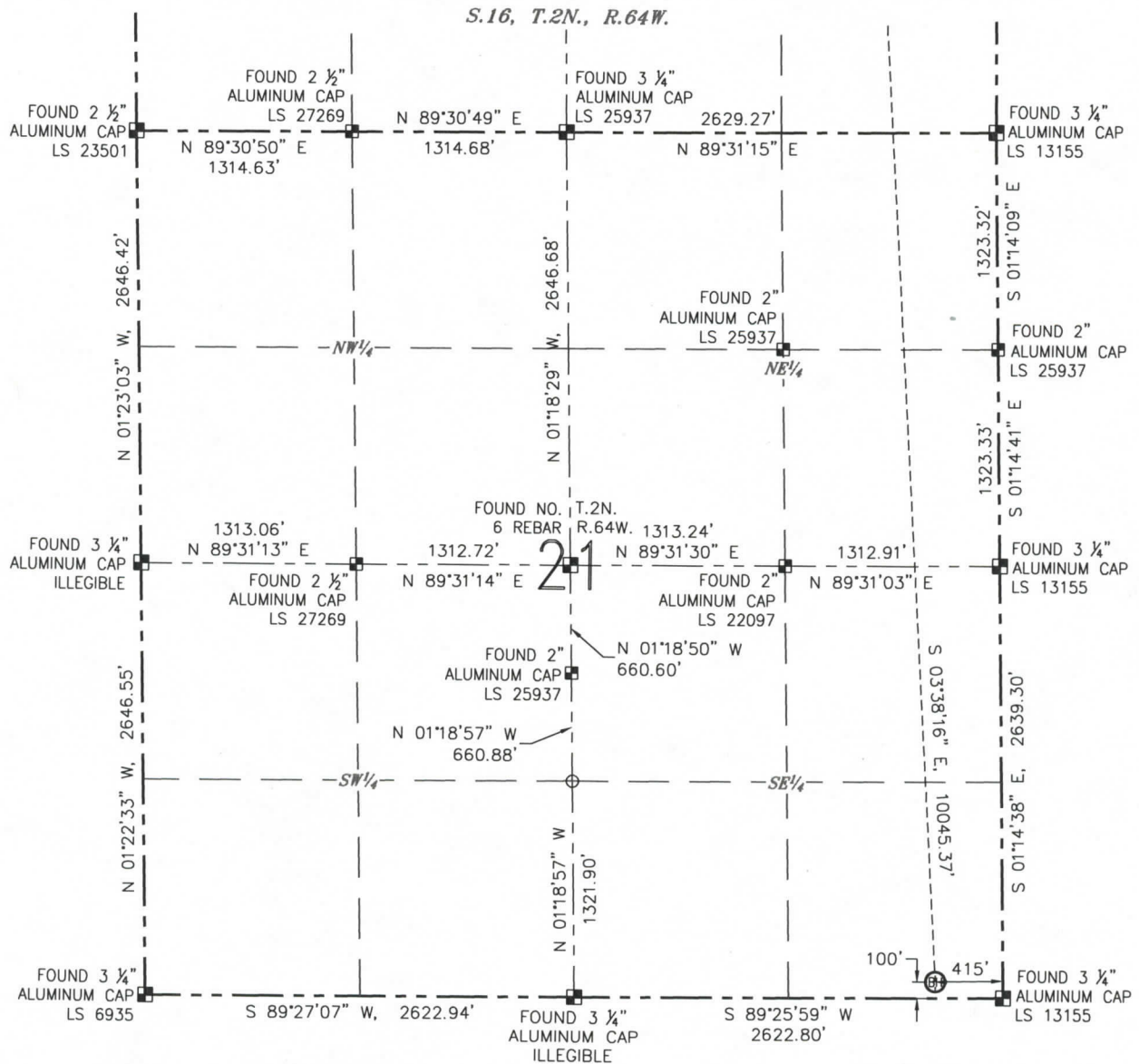
HULLABALOO STATE Y21-716

(SHEET 2 OF 2)






SECTION: 16

TOWNSHIP: 2N

RANGE: 64W



### LEGEND

-  PROPOSED WELL  
 EXISTING WELL  
 BOTTOM HOLE  
 FOUND MONUMENT  
 CALCULATED POSITION



A horizontal scale bar with a black and white checkerboard pattern. It is labeled '0' at the left end and '1000'' at the right end.

SCALE: 1" = 1000'

DATE: 02/06/2017

JOB #: NE16301

# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

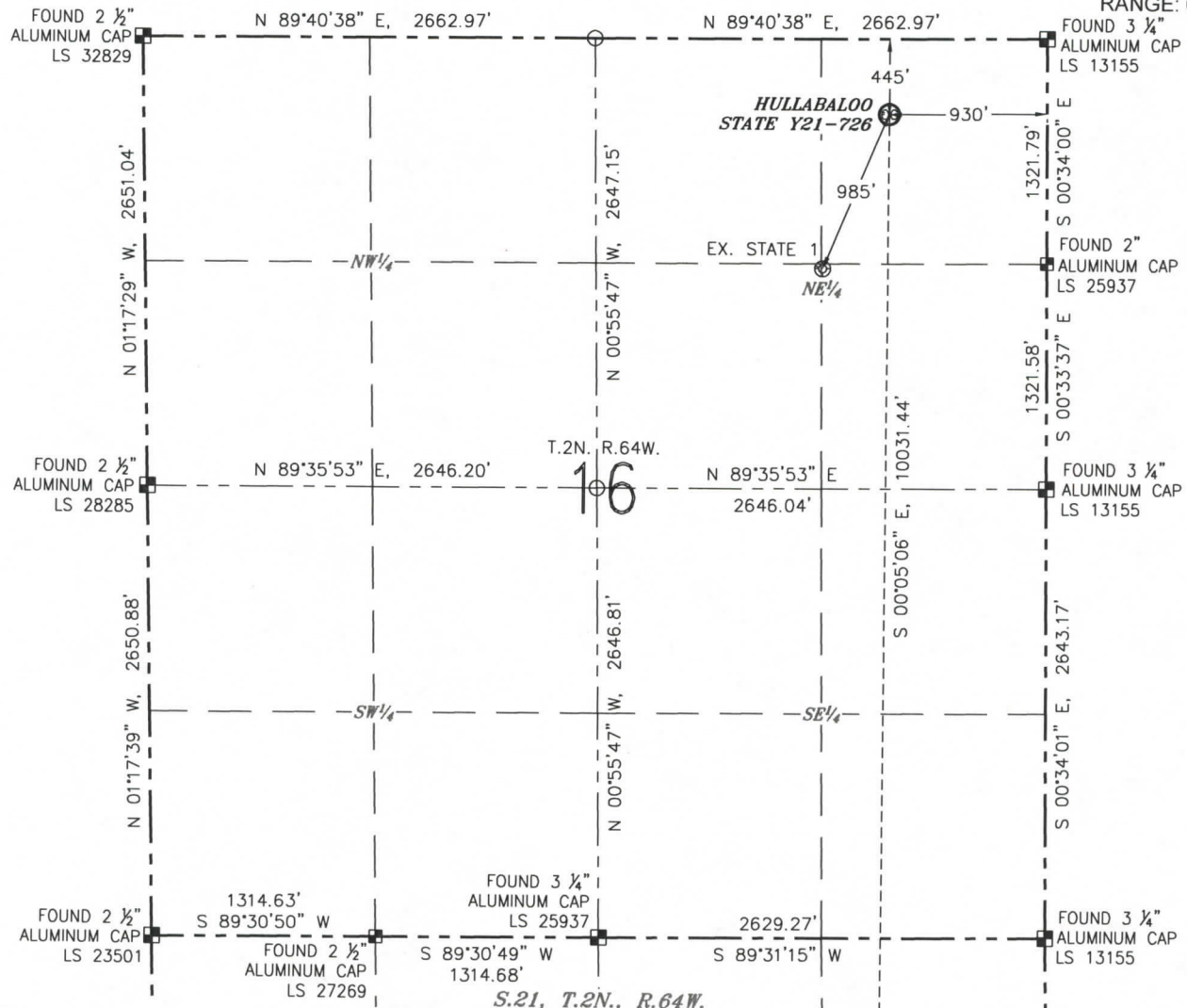
303-753-6730

## WELL LOCATION CERTIFICATE

**HULLABALOO STATE Y21-726**

(SHEET 1 OF 2)

SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W



### NOTES:

- BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83. THE LINEAL DIMENSIONS SHOWN HEREON ARE BASED UPON THE "U.S. SURVEY FOOT".
- GROUND ELEVATIONS ARE BASED UPON NGS OPUS SOLUTION NAVD 88 DATUM COMPUTED USING GEOID09.
- IMPROVEMENTS: SEE LOCATION DRAWING FOR ALL VISIBLE IMPROVEMENTS WITHIN 500' OF THE DISTURBED AREA.
- SURFACE USE: RANGELAND.
- INSTRUMENT OPERATOR: ANDY MAGGIORE.
- THE NEAREST EXISTING WELL: STATE 1, 985' SW.

IN ACCORDANCE WITH A REQUEST FROM GREG WILSON WITH NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE HULLABALOO STATE Y21-726 WELL TO BE 445' FROM THE NORTH LINE AND 930' FROM THE EAST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, AND THE BOTTOM HOLE LOCATION TO BE 100' FROM THE SOUTH LINE AND 1075' FROM THE EAST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 09/13/2016, FOR AND ON BEHALF OF NOBLE ENERGY INC., THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENT LINES.

### SURFACE HOLE LOCATION

LATITUDE: N 40.14452°  
LONGITUDE: W 104.55031°  
PDOP: 1.6  
ELEVATION: 4945'  
1/4-1/4: NE 1/4 NE 1/4

### BOTTOM HOLE LOCATION

LATITUDE: N 40.11698°  
LONGITUDE: W 104.55064°

### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- BOTTOM HOLE
- FOUND MONUMENT
- CALCULATED POSITION



0 1000'

SCALE: 1" = 1000'



MEASURED FROM THE	BUILDING	BUILDING UNIT	HIGH OCCUPANCY BUILDING UNIT	DESIGNATED OUTSIDE ACTIVITY AREA	PUBLIC ROAD	ABOVEGROUND UTILITY	RAILROAD	PROPERTY LINE
PROPOSED WELLHEAD	934' NE	1666' SE	5280'+	5280'+	912' E (CR 55)	901' E	5280'+	445' N

ANTONIO W. SMITH, PLS 38320  
FOR AND ON BEHALF OF R&R ENGINEERS-SURVEYORS, INC. DATE: 02/06/2017  
JOB #: NE16301



# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

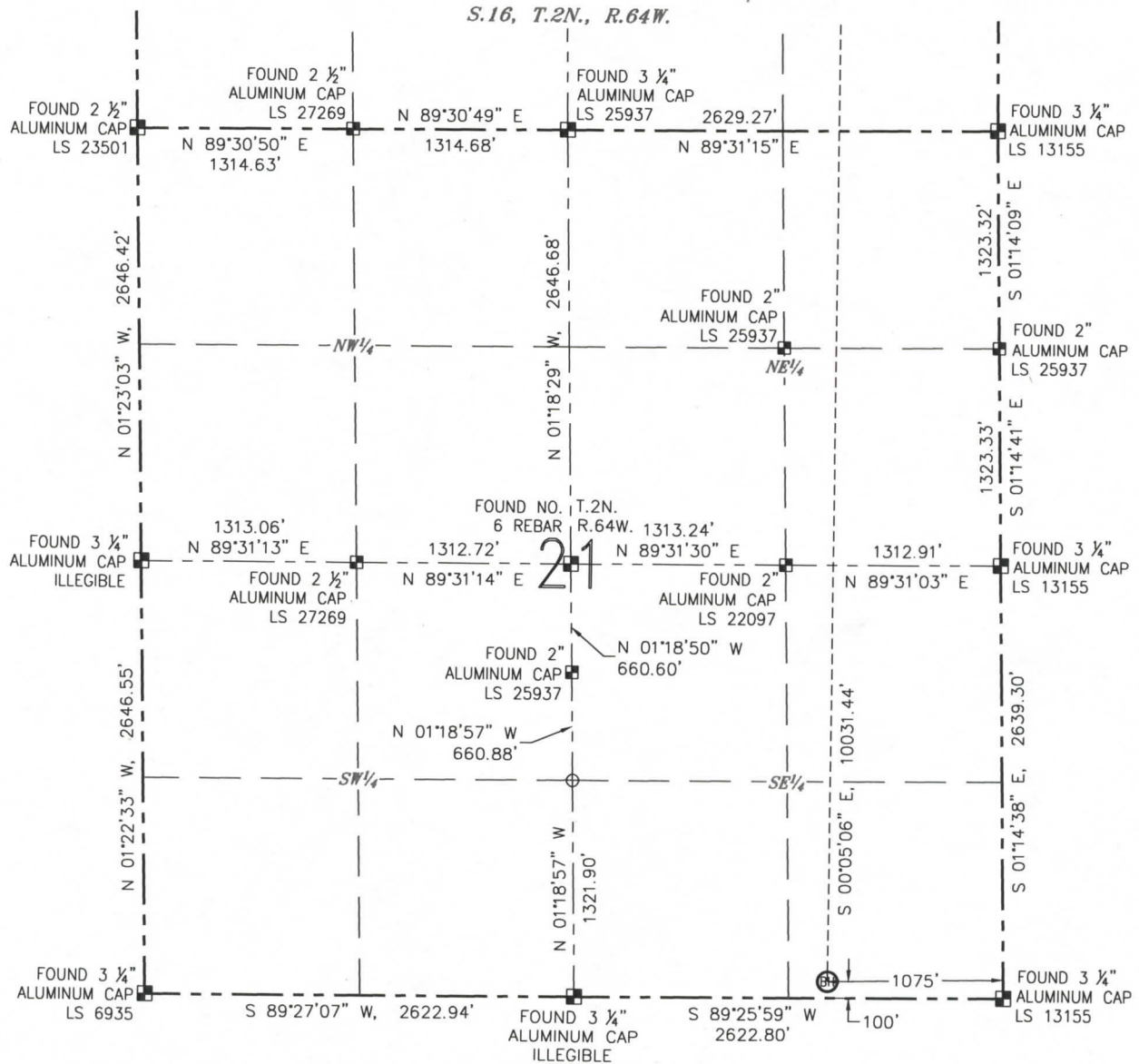
303-753-6730

## WELL LOCATION CERTIFICATE

HULLABALOO STATE Y21-726

(SHEET 2 OF 2)

SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W



### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊙ BOTTOM HOLE
- ⊠ FOUND MONUMENT
- CALCULATED POSITION



0 1000'

SCALE: 1" = 1000'

DATE: 02/06/2017  
JOB #: NE16301



# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

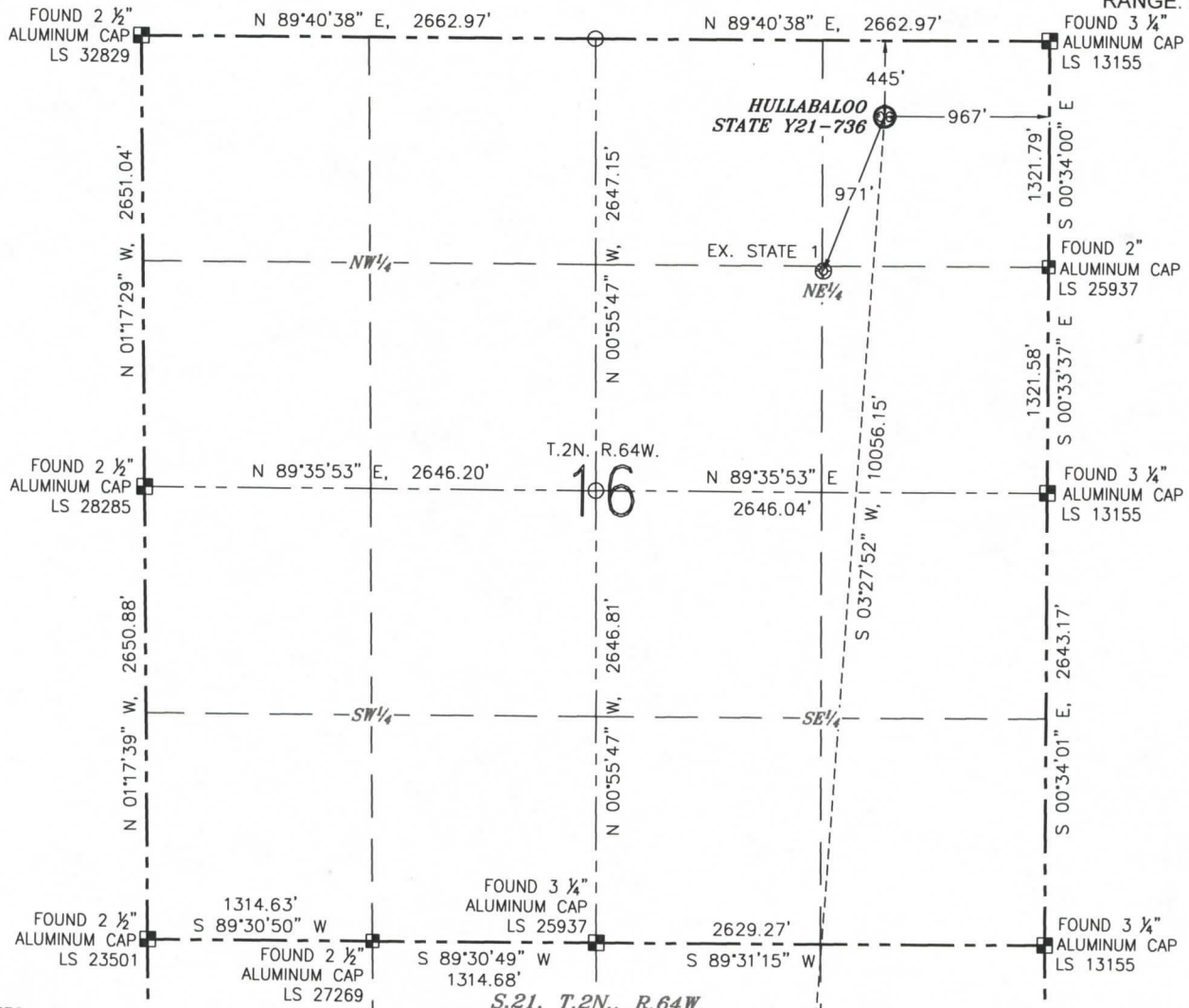
303-753-6730

## WELL LOCATION CERTIFICATE

**HULLABALOO STATE Y21-736**

(SHEET 1 OF 2)

SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W



### NOTES:

1. BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83. THE LINEAL DIMENSIONS SHOWN HEREON ARE BASED UPON THE "U.S. SURVEY FOOT".
2. GROUND ELEVATIONS ARE BASED UPON NGS OPUS SOLUTION NAVD 88 DATUM COMPUTED USING GEOID09.
3. IMPROVEMENTS: SEE LOCATION DRAWING FOR ALL VISIBLE IMPROVEMENTS WITHIN 500' OF THE DISTURBED AREA.
4. SURFACE USE: RANGELAND.
5. INSTRUMENT OPERATOR: ANDY MAGGIORE.
6. THE NEAREST EXISTING WELL: STATE 1, 971' SW.

IN ACCORDANCE WITH A REQUEST FROM GREG WILSON WITH NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE HULLABALOO STATE Y21-736 WELL TO BE 445' FROM THE NORTH LINE AND 967' FROM THE EAST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, AND THE BOTTOM HOLE LOCATION TO BE 100' FROM THE SOUTH LINE AND 1735' FROM THE EAST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 09/13/2016, FOR AND ON BEHALF OF NOBLE ENERGY INC., THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENT LINES.

### SURFACE HOLE LOCATION

LATITUDE: N 40.14452°  
LONGITUDE: W 104.55044°  
PDOP: 2.2  
ELEVATION: 4945'  
1/4-1/4: NE 1/4 NE 1/4

### BOTTOM HOLE LOCATION

LATITUDE: N 40.11698°  
LONGITUDE: W 104.55300°

### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊙ BOTTOM HOLE
- ⊙ FOUND MONUMENT
- CALCULATED POSITION



0 1000'  
SCALE: 1" = 1000'



MEASURED FROM THE	BUILDING	BUILDING UNIT	HIGH OCCUPANCY BUILDING UNIT	DESIGNATED OUTSIDE ACTIVITY AREA	PUBLIC ROAD	ABOVEGROUND UTILITY	RAILROAD	PROPERTY LINE
PROPOSED WELLHEAD	953' NE	1696' SE	5280'+	5280'+	950' E (CR 55)	938' E	5280'+	445' N

ANTONIO W. SMITH, PLS 38320  
FOR AND ON BEHALF OF R&R ENGINEERS-SURVEYORS, INC. DATE: 02/06/2017  
JOB #: NE16301

## Second Amendment Exhibit A

Page 32 of 52

# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

## WELL LOCATION CERTIFICATE

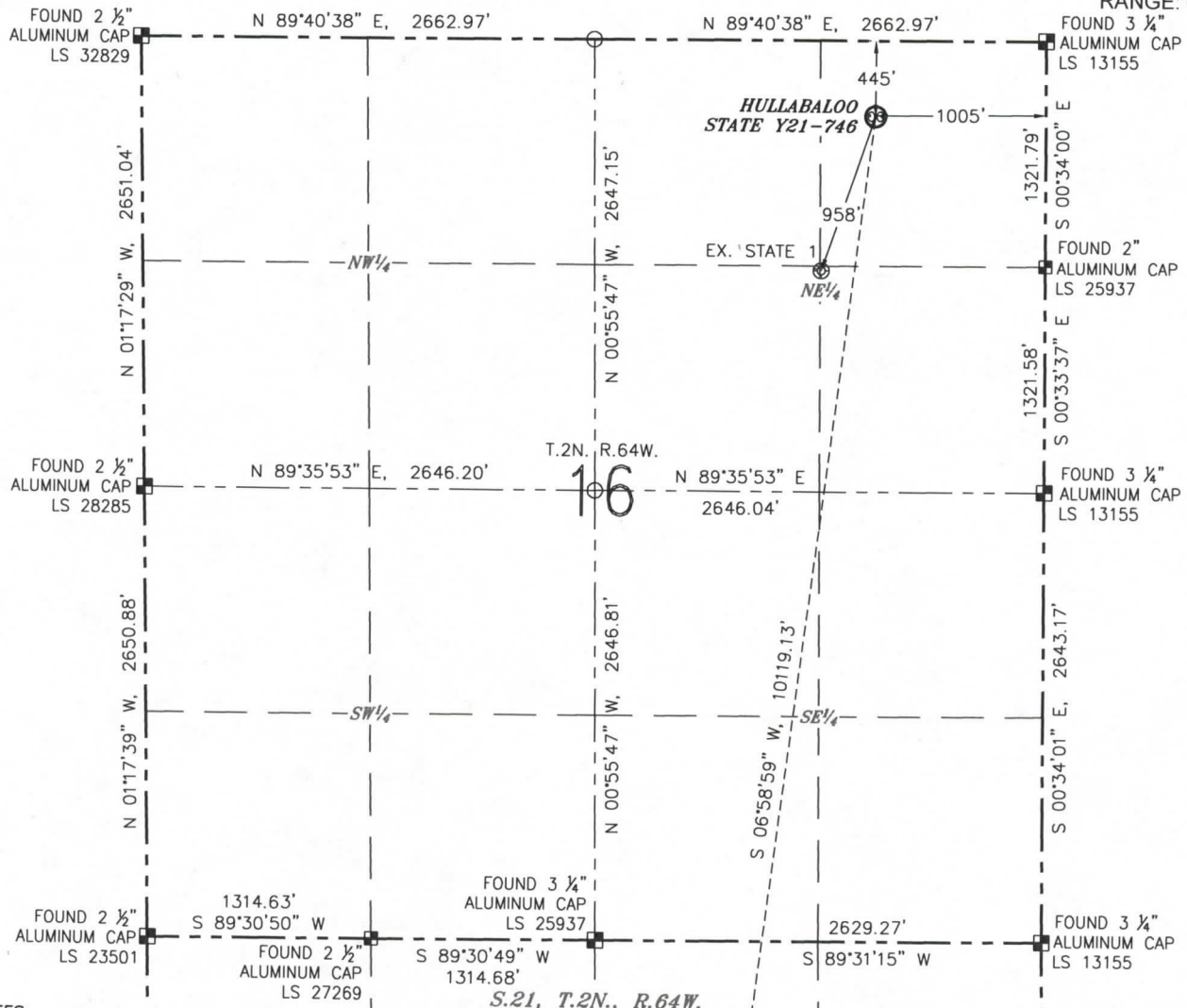
**HULLABALOO STATE Y21-746**

(SHEET 1 OF 2)

SECTION: 16

TOWNSHIP: 2N

RANGE: 64W



### NOTES:

1. BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83. THE LINEAL DIMENSIONS SHOWN HEREON ARE BASED UPON THE "U.S. SURVEY FOOT".
2. GROUND ELEVATIONS ARE BASED UPON NGS OPUS SOLUTION NAVD 88 DATUM COMPUTED USING GEOID09.
3. IMPROVEMENTS: SEE LOCATION DRAWING FOR ALL VISIBLE IMPROVEMENTS WITHIN 500' OF THE DISTURBED AREA.
4. SURFACE USE: RANGELAND.
5. INSTRUMENT OPERATOR: ANDY MAGGIORE.
6. THE NEAREST EXISTING WELL: STATE 1, 958' SW.

IN ACCORDANCE WITH A REQUEST FROM GREG WILSON WITH NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE HULLABALOO STATE Y21-746 WELL TO BE 445' FROM THE NORTH LINE AND 1005' FROM THE EAST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, AND THE BOTTOM HOLE LOCATION TO BE 100' FROM THE SOUTH LINE AND 2395' FROM THE EAST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 09/13/2016, FOR AND ON BEHALF OF NOBLE ENERGY INC., THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENT LINES.

### SURFACE HOLE LOCATION

LATITUDE: N 40.14452°  
LONGITUDE: W 104.55058°  
PDOP: 1.6  
ELEVATION: 4944'  
1/4-1/4: NE 1/4 NE 1/4

### BOTTOM HOLE LOCATION

LATITUDE: N 40.11698°  
LONGITUDE: W 104.55536°

### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊙ BOTTOM HOLE
- ⊠ FOUND MONUMENT
- CALCULATED POSITION



0 1000'  
SCALE: 1" = 1000'



MEASURED FROM THE	BUILDING	BUILDING UNIT	HIGH OCCUPANCY BUILDING UNIT	DESIGNATED OUTSIDE ACTIVITY AREA	PUBLIC ROAD	ABOVEGROUND UTILITY	RAILROAD	PROPERTY LINE
PROPOSED WELLHEAD	973' NE	1726' SE	5280'+	5280'+	987' E (CR 55)	976' E	5280'+	445' N

ANTONIO W. SMITH, PLS 38320  
FOR AND ON BEHALF OF R&R ENGINEERS-SURVEYORS, INC. DATE: 02/06/2017  
JOB #: NE16301



# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

## WELL LOCATION CERTIFICATE

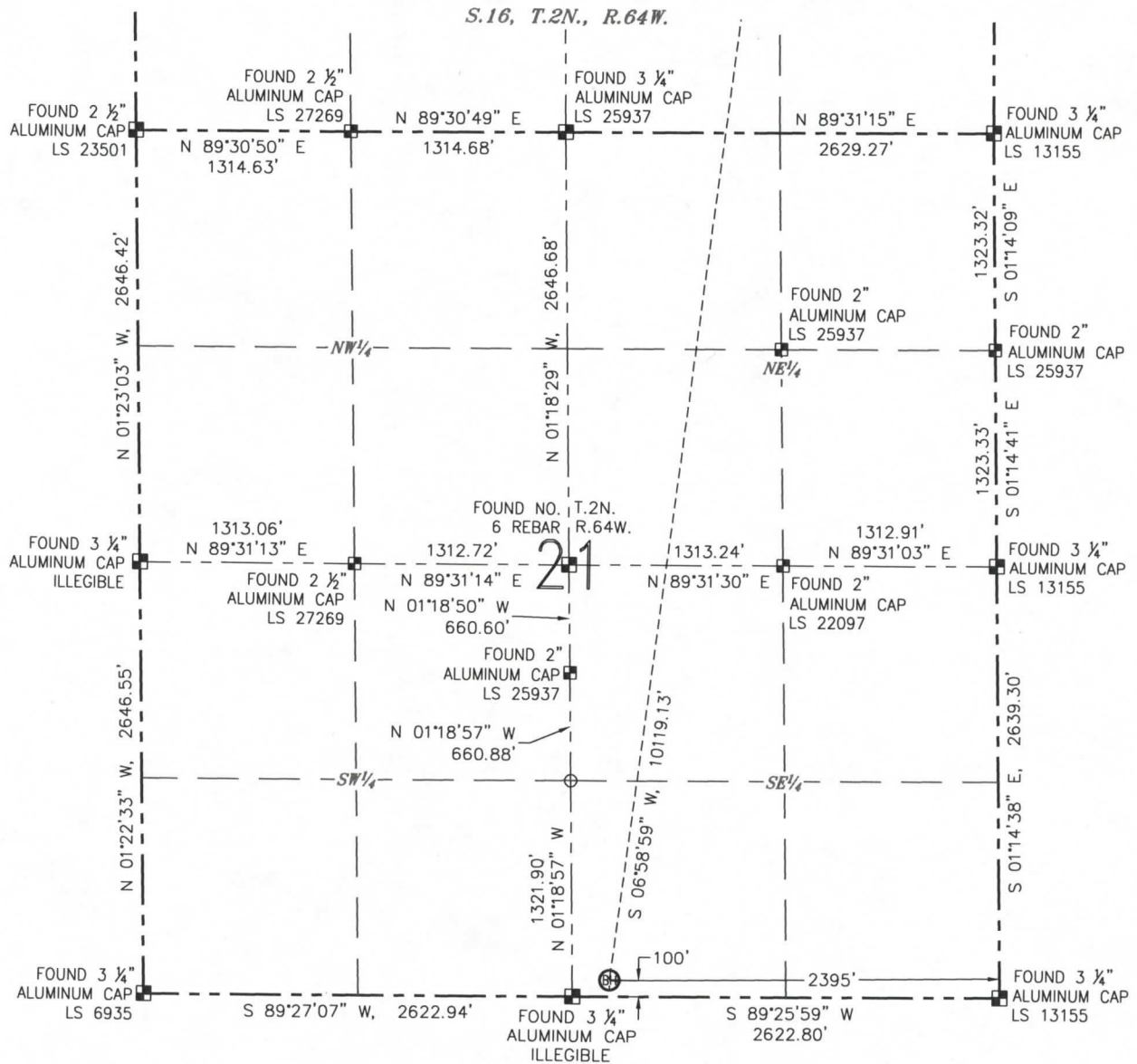
HULLABALOO STATE Y21-746

(SHEET 2 OF 2)

SECTION: 16

TOWNSHIP: 2N

RANGE: 64W



### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊙ BOTTOM HOLE
- ⊠ FOUND MONUMENT
- CALCULATED POSITION



0 1000'

SCALE: 1" = 1000'

DATE: 02/06/2017

JOB #: NE16301



## Page 35 of 52

# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

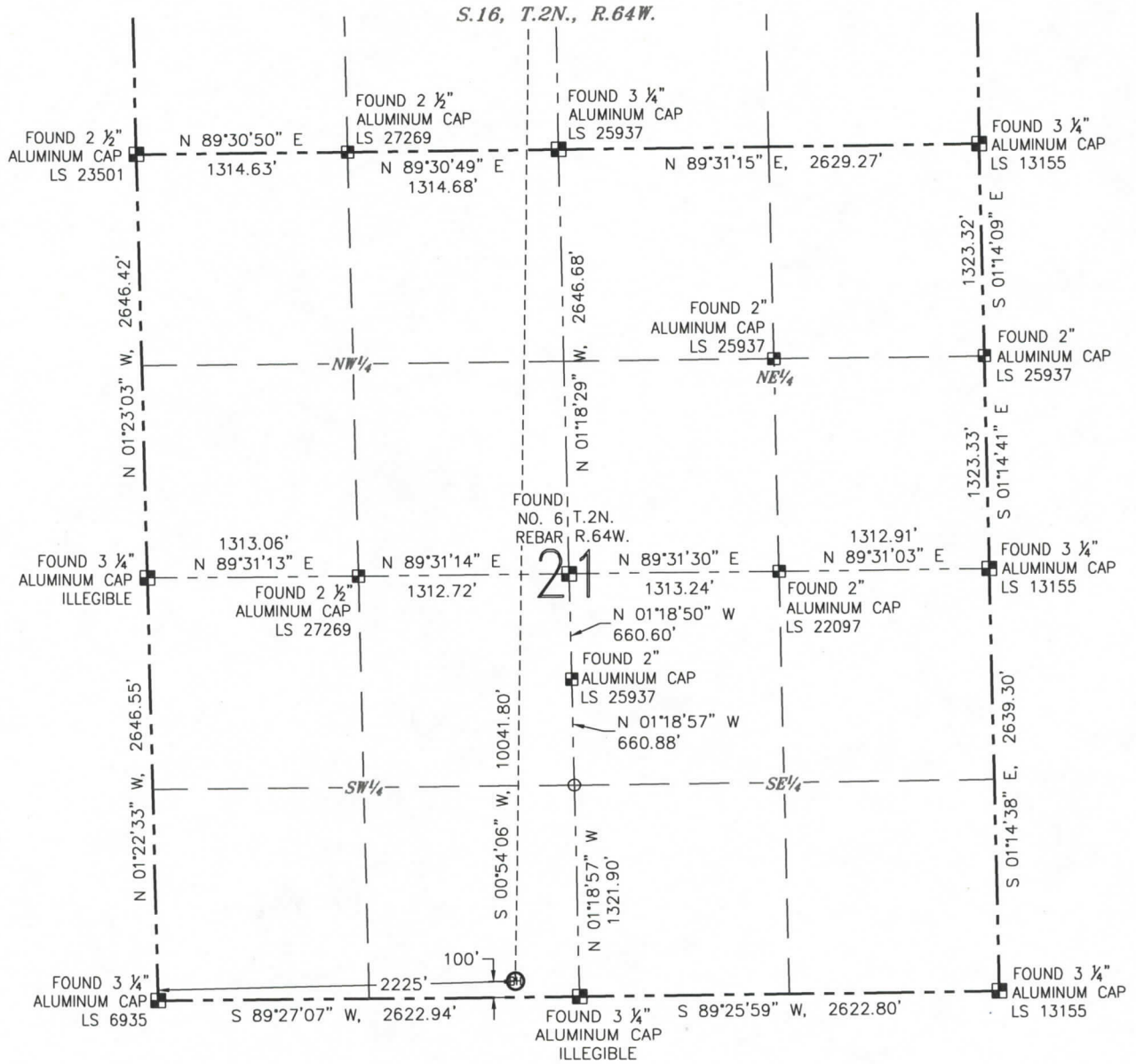
710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

## WELL LOCATION CERTIFICATE

HULLABALOO STATE Y21-756  
(SHEET 2 OF 2)

SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W



### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊕ BOTTOM HOLE
- ⊠ FOUND MONUMENT
- CALCULATED POSITION



0 1000'  
SCALE: 1" = 1000'

DATE: 02/06/2017  
JOB #: NE16301

# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

710 WEST COLFAX AVENUE, DENVER, CO 80204

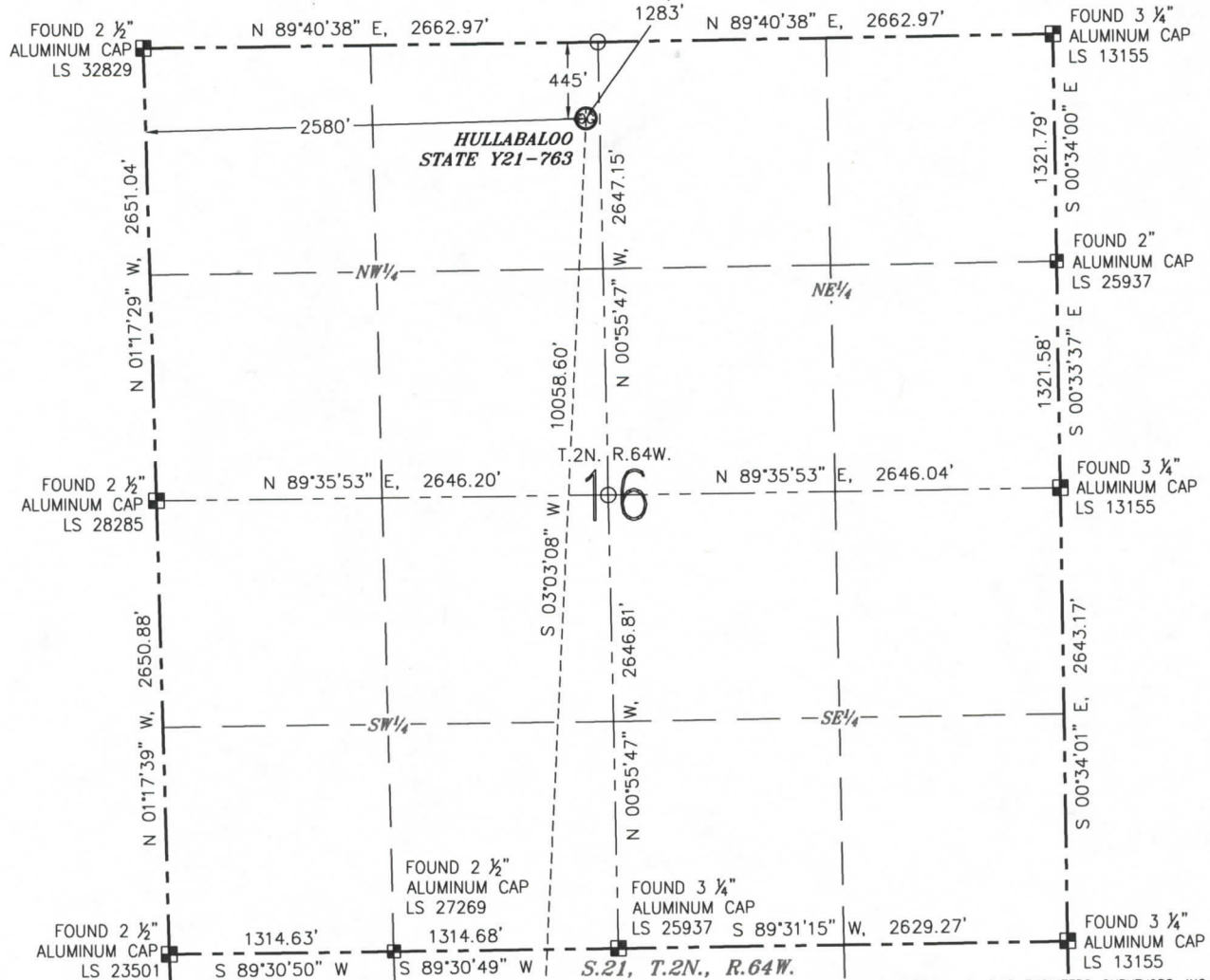
303-753-6730

## WELL LOCATION CERTIFICATE

**HULLABALOO STATE Y21-763**

(SHEET 1 OF 2) EX. PERKINS 34-9

SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W



### NOTES:

1. BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83. THE LINEAL DIMENSIONS SHOWN HEREON ARE BASED UPON THE "U.S. SURVEY FOOT".
2. GROUND ELEVATIONS ARE BASED UPON NGS OPUS SOLUTION NAVD 88 DATUM COMPUTED USING GEOID09.
3. IMPROVEMENTS: SEE LOCATION DRAWING FOR ALL VISIBLE IMPROVEMENTS WITHIN 500' OF THE DISTURBED AREA.
4. SURFACE USE: RANGELAND.
5. INSTRUMENT OPERATOR: ANDY MAGGIORE.
6. THE NEAREST EXISTING WELL: PERKINS 34-9, 1283' NE.

IN ACCORDANCE WITH A REQUEST FROM GREG WILSON WITH NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE HULLABALOO STATE Y21-763 WELL TO BE 445' FROM THE NORTH LINE AND 2580' FROM THE WEST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 64 WEST, AND THE BOTTOM HOLE LOCATION TO BE 100' FROM THE SOUTH LINE AND 1810' FROM THE WEST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 09/13/2016, FOR AND ON BEHALF OF NOBLE ENERGY INC., THAT IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR ESTABLISHMENT OF FENCES, BUILDINGS, OR OTHER FUTURE IMPROVEMENT LINES.

### SURFACE HOLE LOCATION

LATITUDE: N 40.14454'  
LONGITUDE: W 104.55678'  
PDOP: 1.5  
ELEVATION: 4912'  
1/4-1/4: NE 1/4 NW 1/4

### BOTTOM HOLE LOCATION

LATITUDE: N 40.11699'  
LONGITUDE: W 104.55908'

### LEGEND

- ⊗ PROPOSED WELL
- ⊙ EXISTING WELL
- ⊙ BOTTOM HOLE
- ⊙ FOUND MONUMENT
- CALCULATED POSITION



0 1000'  
SCALE: 1" = 1000'



MEASURED FROM THE	BUILDING	BUILDING UNIT	HIGH OCCUPANCY BUILDING UNIT	DESIGNATED OUTSIDE ACTIVITY AREA	PUBLIC ROAD	ABOVEGROUND UTILITY	RAILROAD	PROPERTY LINE
PROPOSED WELLHEAD	2407' NE	3294' SE	5280'+	5280'+	2722' E (CR 55)	2727' SE	5280'+	445' N

ANTONIO W. SMITH, PLS 38320  
FOR AND ON BEHALF OF R&R ENGINEERS-SURVEYORS, INC. DATE: 02/06/2017  
JOB #: NE16301



# Second Amendment Exhibit A

R&R ENGINEERS-SURVEYORS, INC.

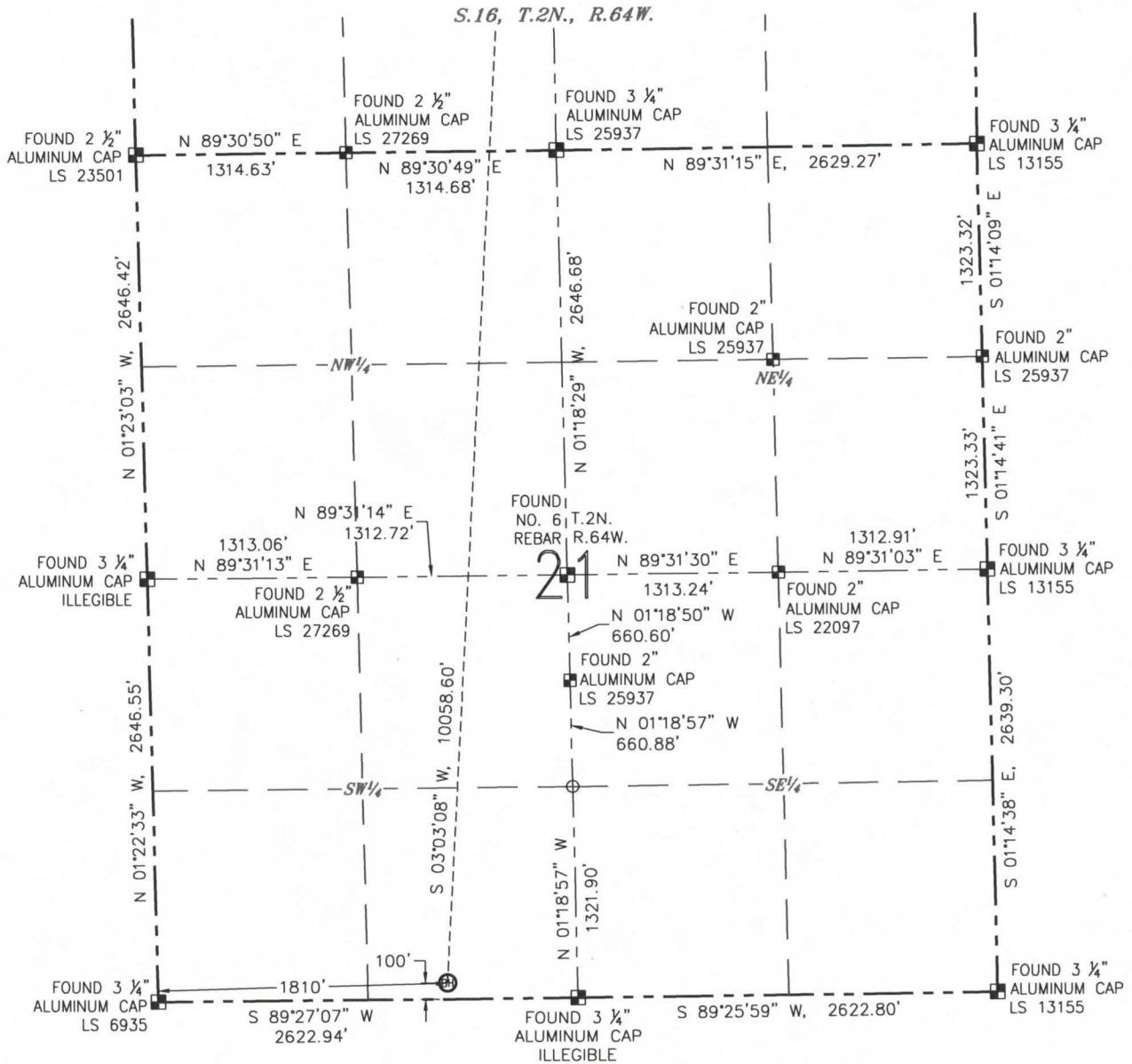
710 WEST COLFAX AVENUE, DENVER, CO 80204

303-753-6730

## WELL LOCATION CERTIFICATE

**HULLABALOO STATE Y21-763**  
(SHEET 2 OF 2)

SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W



### LEGEND

- ⊕ PROPOSED WELL
- ⊗ EXISTING WELL
- ⊙ BOTTOM HOLE
- FOUND MONUMENT
- CALCULATED POSITION



0 1000'  
SCALE: 1" = 1000'

DATE: 02/06/2017  
JOB #: NE16301





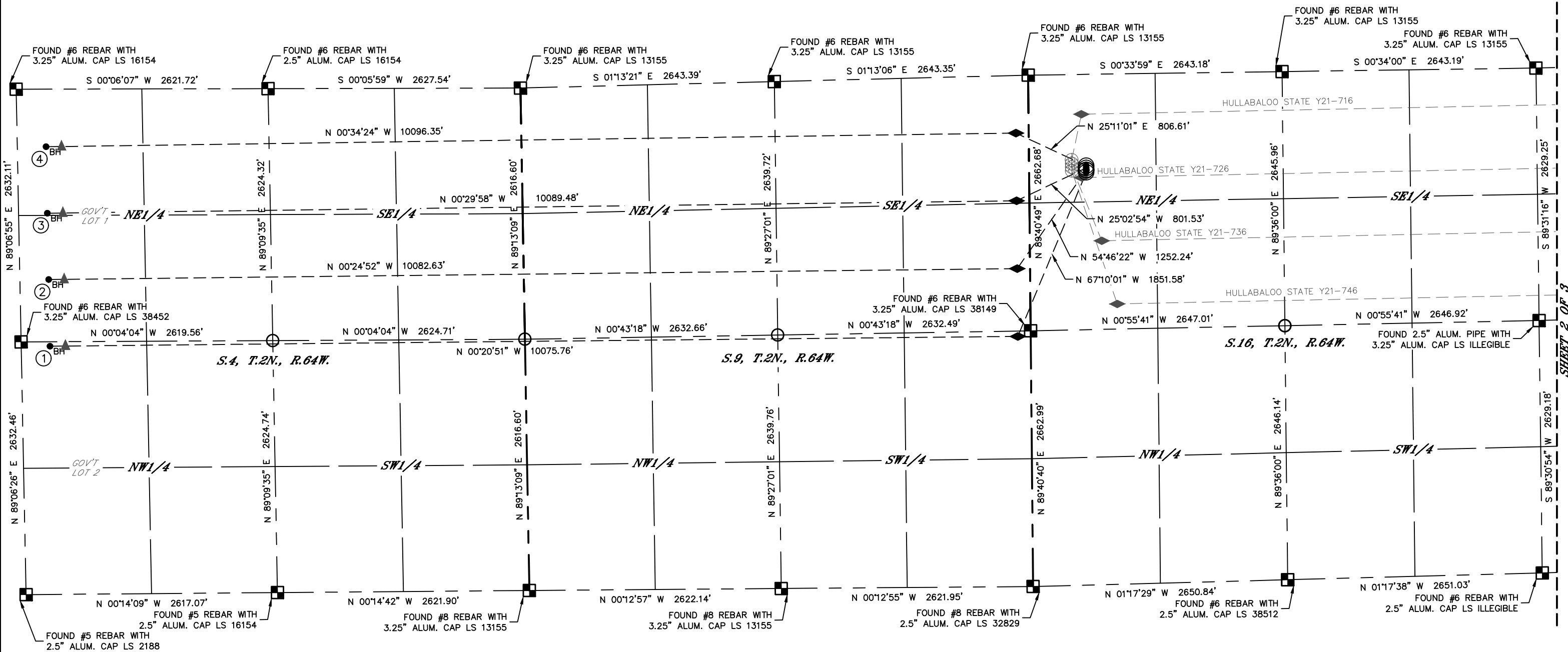
Second Amendment Exhibit A  
Lat40°, Inc. 6250 W. 10th Street, Unit 2, Greeley, CO 970-515-5294

DIRECTIONAL WELL PLAT

Y16-27 PAD  
NOBLE ENERGY INC

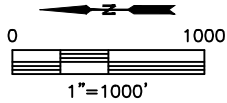
THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY

Q: NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO



- LEGEND
- = ALIQUOT MONUMENT AS DESCRIBED
  - = CALCULATED POSITION
  - = SURFACE HOLE LOCATION (SHL)
  - ◆ = TOP OF PRODUCTIVE ZONE (TPZ)
  - ▲ = BOTTOM OF PRODUCTIVE ZONE (BPZ)
  - = BOTTOM HOLE LOCATION (BHL)
  - ⊙ = EXISTING WELL
  - ⊖ = ABANDONED WELL

#	WELL NAME	BHL FOOTAGE				BHL LAT °	BHL LONG °	BHL S-T-R
1	GIG-EM STATE Y9-751	300	FNL	2585	FWL	40.17378	-104.55654	4-2-64
2	GIG-EM STATE Y9-740	300	FNL	1983	FEL	40.17379	-104.55406	4-2-64
3	GIG-EM STATE Y9-730	300	FNL	1292	FEL	40.17380	-104.55159	4-2-64
4	GIG-EM STATE Y9-719	300	FNL	600	FEL	40.17381	-104.54911	4-2-64

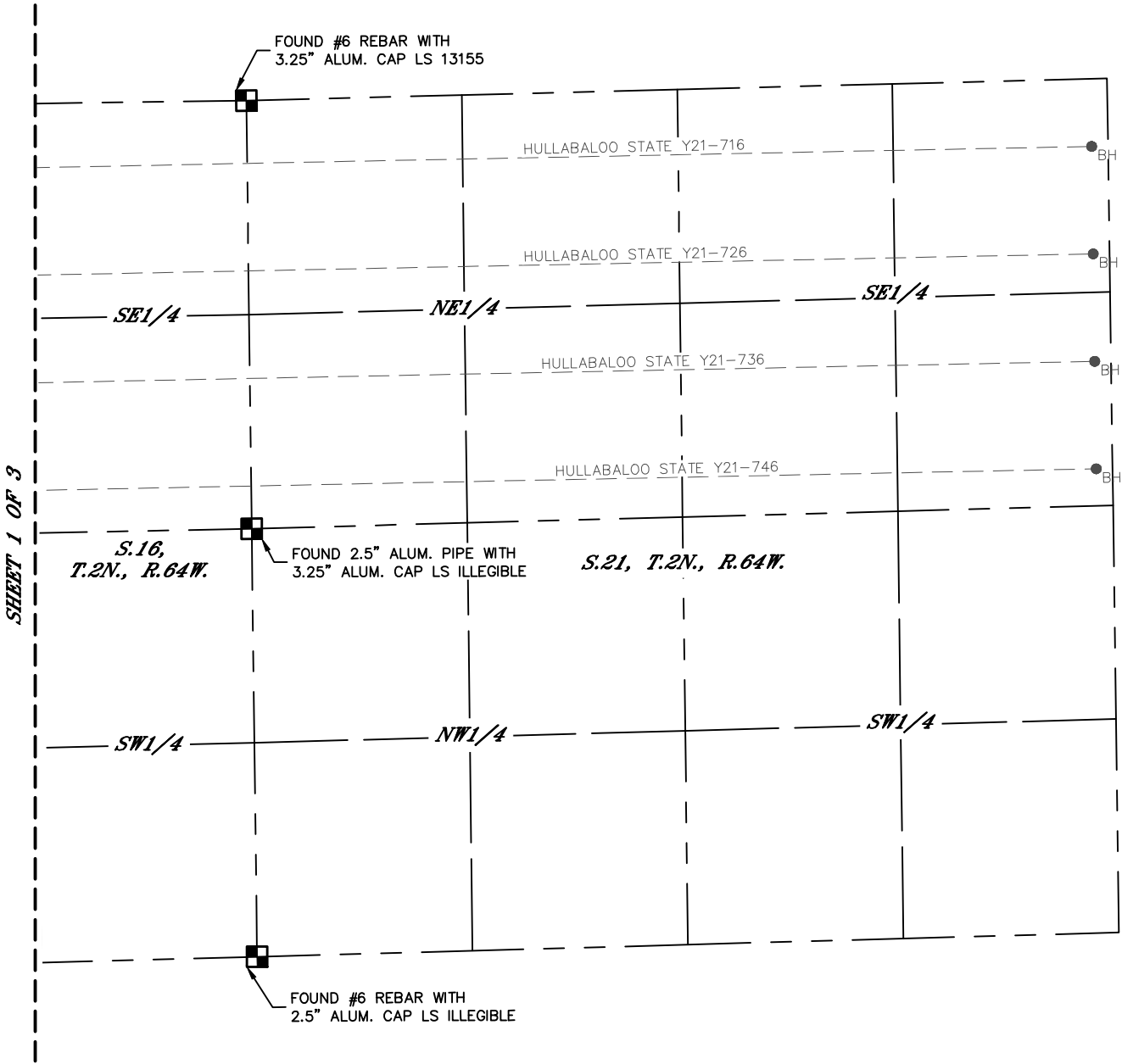




DIRECTIONAL WELL PLAT

Y16-27 PAD  
NOBLE ENERGY INC

Q: NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO



SHEET 1 OF 3

- LEGEND
- = ALIQUOT MONUMENT AS DESCRIBED
  - = CALCULATED POSITION
  - = SURFACE HOLE LOCATION (SHL)
  - ◆ = TOP OF PRODUCTIVE ZONE (TPZ)
  - ▲ = BOTTOM OF PRODUCTIVE ZONE (BPZ)
  - <sub>BH</sub> = BOTTOM HOLE LOCATION (BHL)
  - ⊙ = EXISTING WELL
  - ⊙ = ABANDONED WELL

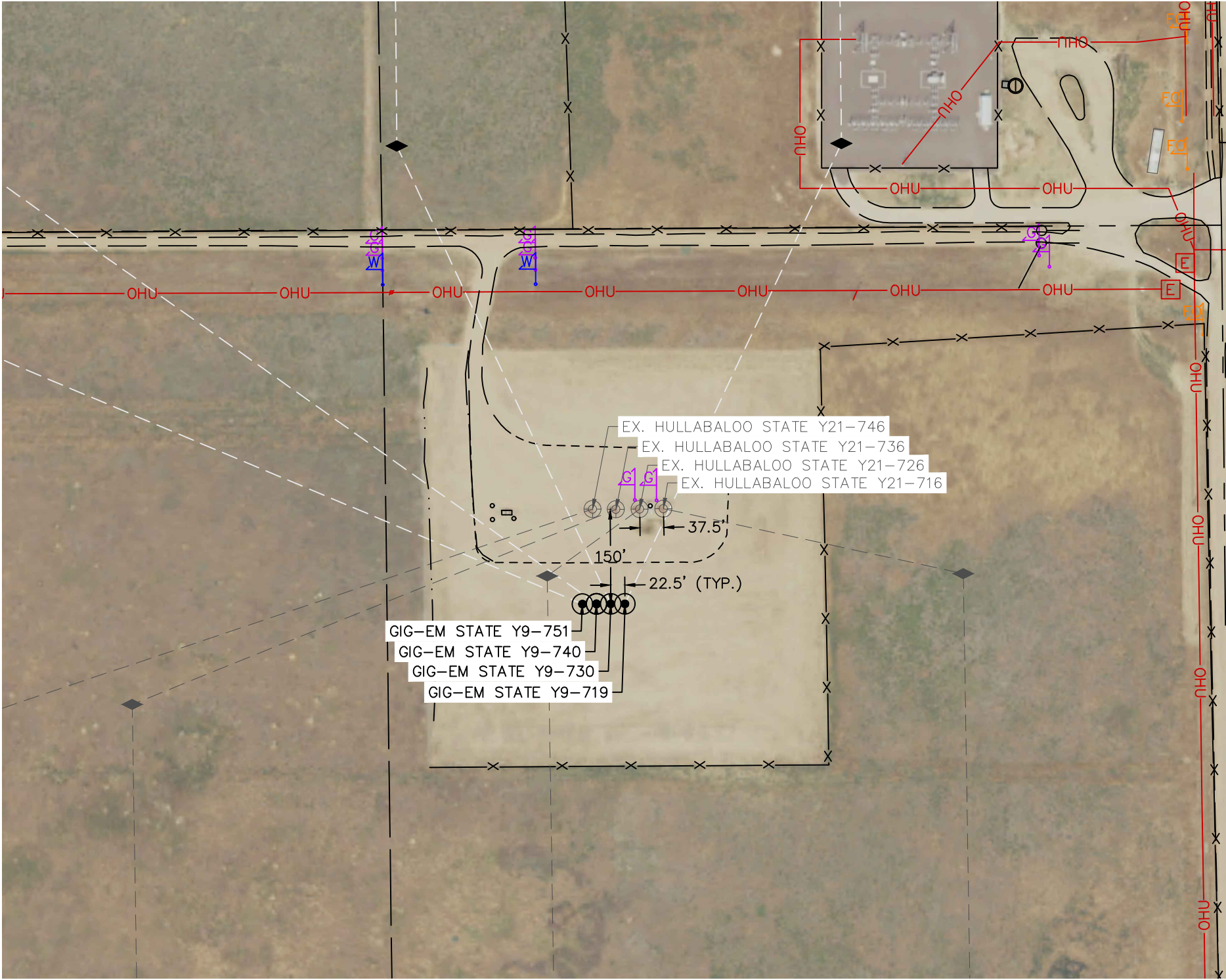




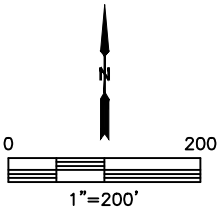
DIRECTIONAL WELL PLAT

Y16-27 PAD  
NOBLE ENERGY INC

Q: NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO



#	WELL NAME	SHL FOOTAGE				SHL LAT °	SHL LONG °	SHL PDOP	SHL ELEV (FT.)	SHL 1/4/1/4	SHL S-T-R
1	GIG-EM STATE Y9-751	595	FNL	1020	FEL	40.14411	-104.55063	1.4	4942	NENE	16-2-64
2	GIG-EM STATE Y9-740	595	FNL	997	FEL	40.14411	-104.55055	1.4	4943	NENE	16-2-64
3	GIG-EM STATE Y9-730	595	FNL	975	FEL	40.14411	-104.55047	1.4	4943	NENE	16-2-64
4	GIG-EM STATE Y9-719	595	FNL	952	FEL	40.14411	-104.55039	1.4	4943	NENE	16-2-64







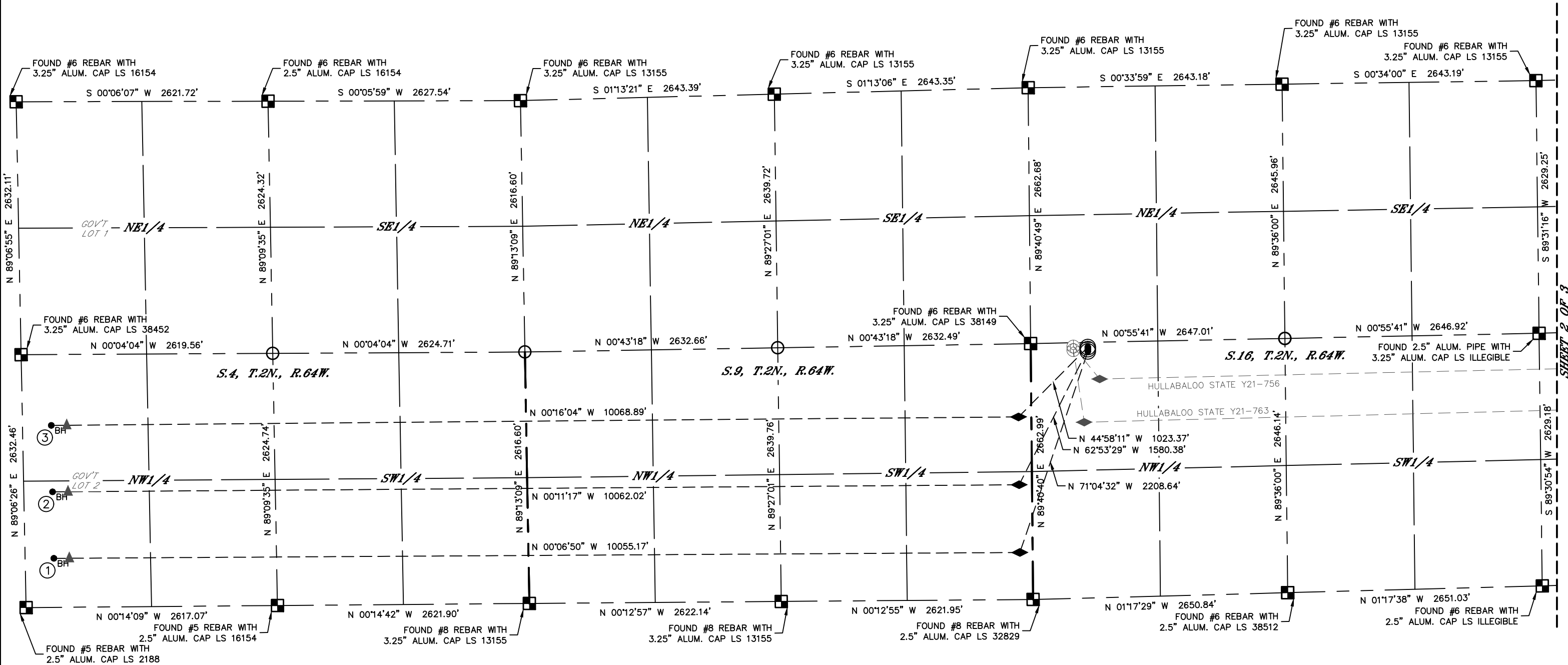
Second Amendment Exhibit A  
Lat40°, Inc. 6250 W. 10th Street, Unit 2, Greeley, CO 970-515-5294

DIRECTIONAL WELL PLAT

Y16-28 PAD  
NOBLE ENERGY INC

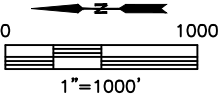
THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY

Q: NW/4,NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO



- LEGEND
- = ALIQUOT MONUMENT AS DESCRIBED
  - = CALCULATED POSITION
  - ⊙ = SURFACE HOLE LOCATION (SHL)
  - ◆ = TOP OF PRODUCTIVE ZONE (TPZ)
  - ▲ = BOTTOM OF PRODUCTIVE ZONE (BPZ)
  - = BOTTOM HOLE LOCATION (BHL)
  - ⊕ = EXISTING WELL
  - ⊖ = ABANDONED WELL

#	WELL NAME	BHL FOOTAGE				BHL LAT°	BHL LONG°	BHL S-T-R
1	GIG-EM STATE Y9-782	300	FNL	510	FWL	40.17375	-104.56397	4-2-64
2	GIG-EM STATE Y9-772	300	FNL	1202	FWL	40.17376	-104.56149	4-2-64
3	GIG-EM STATE Y9-761	300	FNL	1894	FWL	40.17377	-104.55902	4-2-64

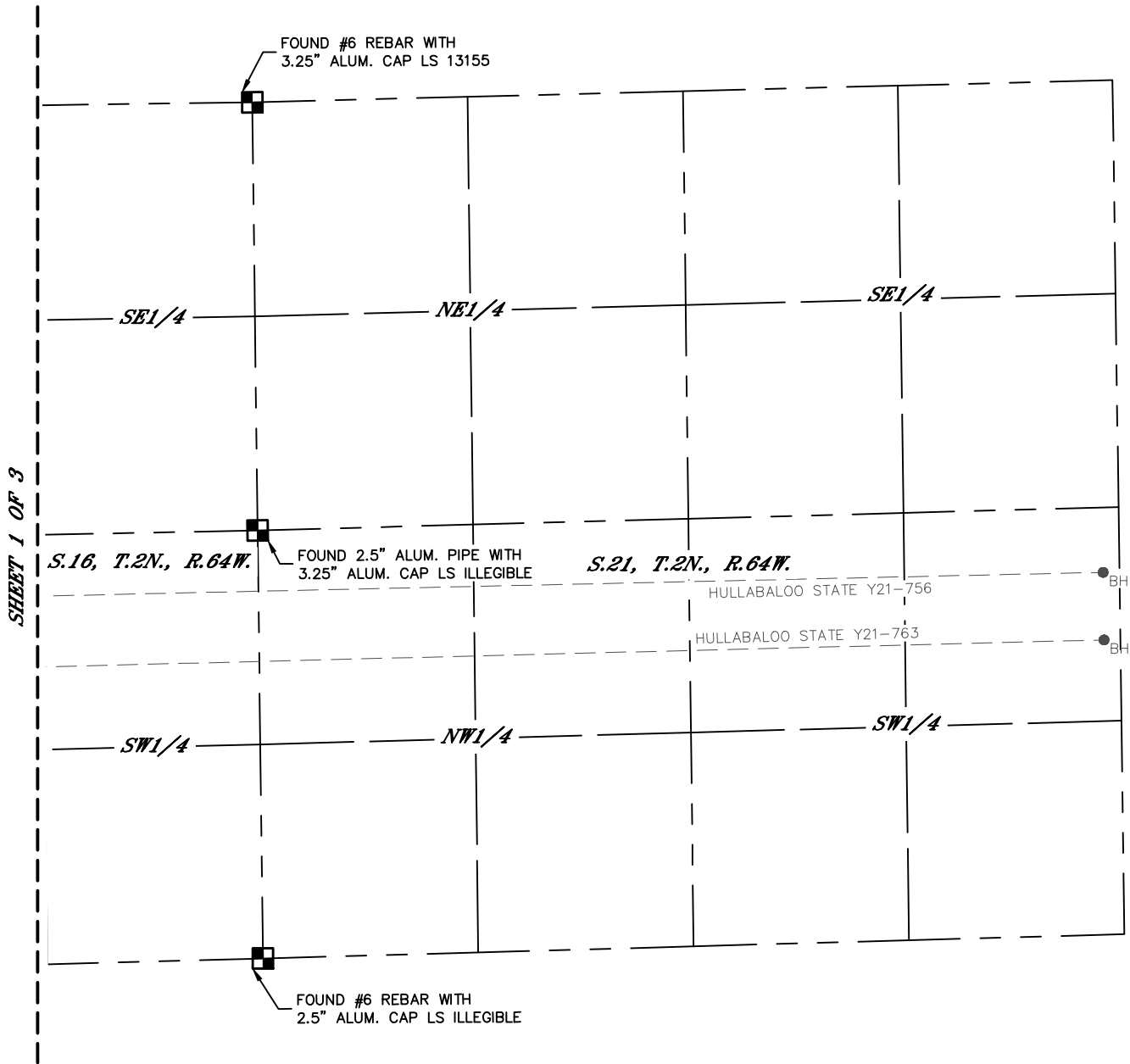




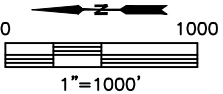
DIRECTIONAL WELL PLAT

Y16-28 PAD  
NOBLE ENERGY INC

Q: NW/4,NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO



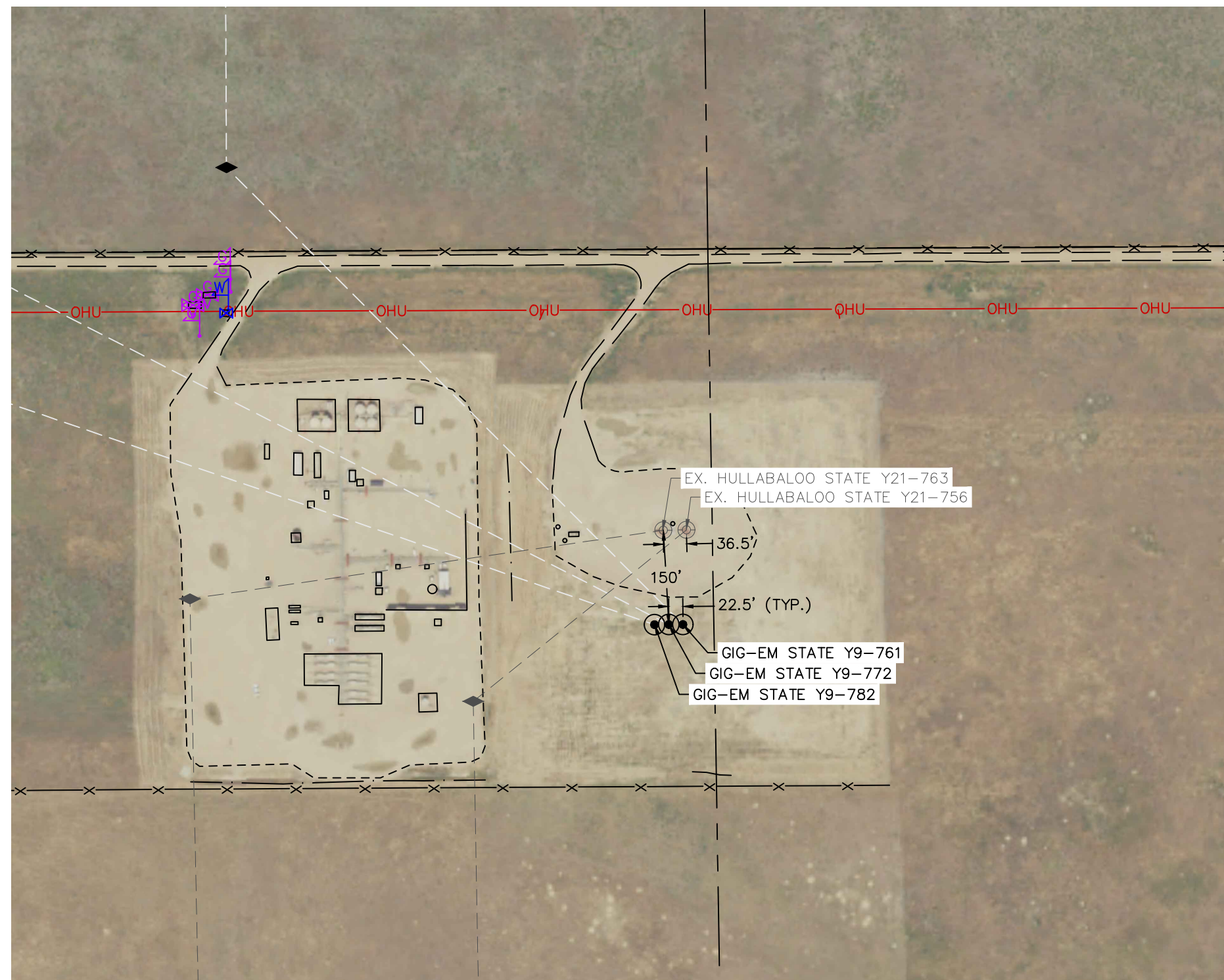
- LEGEND
- = ALIQUOT MONUMENT AS DESCRIBED
  - = CALCULATED POSITION
  - = SURFACE HOLE LOCATION (SHL)
  - ◆ = TOP OF PRODUCTIVE ZONE (TPZ)
  - ▲ = BOTTOM OF PRODUCTIVE ZONE (BPZ)
  - <sub>BH</sub> = BOTTOM HOLE LOCATION (BHL)
  - ⊙ = EXISTING WELL
  - ⊖ = ABANDONED WELL



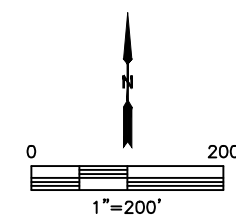


Y16-28 PAD  
NOBLE ENERGY INC

Q: NW/4,NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO



#	WELL NAME	SHL FOOTAGE				SHL LAT °	SHL LONG °	SHL PDOP	SHL ELEV (FT.)	SHL 1/4/1/4	SHL S-T-R
1	GIG-EM STATE Y9-782	595	FNL	2565	FWL	40.14413	-104.55683	1.9	4911	NENW	16-2-64
2	GIG-EM STATE Y9-772	595	FNL	2588	FWL	40.14413	-104.55675	1.9	4911	NENW	16-2-64
3	GIG-FM STATE Y9-761	595	FNL	2610	FWL	40.14413	-104.55667	1.9	4911	NENW	16-2-64





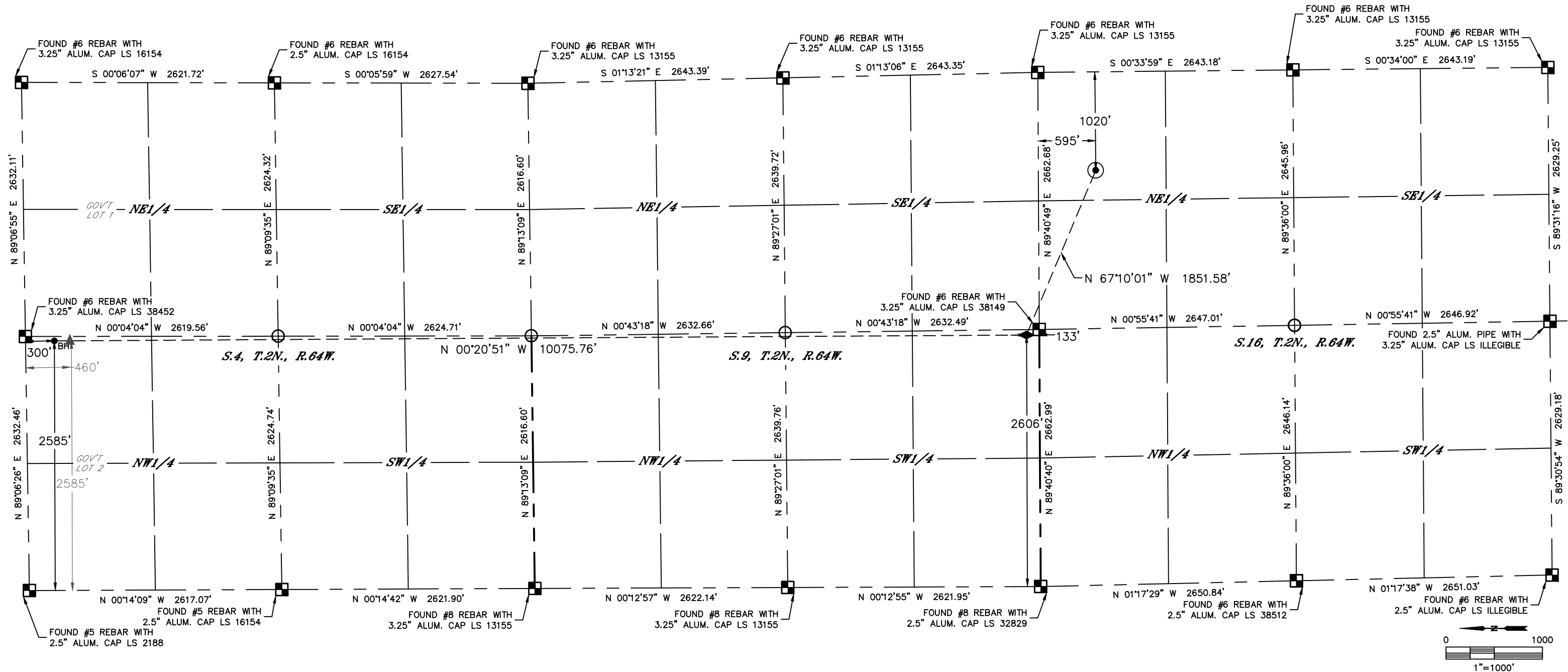


Lat40°, Inc. 6250 W. 10th Street, Unit 2, Greeley, CO 970-515-5294

WELL LOCATION CERTIFICATE

GIG-EM STATE Y9-751  
NOBLE ENERGY INC

Q: NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO



- LEGEND
- = ALIQUOT MONUMENT AS DESCRIBED
  - = CALCULATED POSITION
  - = SURFACE HOLE LOCATION (SHL)
  - ◆ = TOP OF PRODUCTIVE ZONE (TPZ)
  - ▲ = BOTTOM OF PRODUCTIVE ZONE (BPZ)
  - <sub>BH</sub> = BOTTOM HOLE LOCATION (BHL)
  - ⊕ = EXISTING WELL
  - ⊖ = ABANDONED WELL

CLIENT: NOBLE ENERGY INC						LANDMAN: GREG WILSON			
INSTRUMENT OPERATOR: RYAN CHAMPION						SURVEY DATE: 2/10/2022		SURFACE USE: EXISTING PAD	
SHL FOOTAGE				SHL LAT °	SHL LONG °	SHL PDOP	SHL ELEV (FT.)	SHL 1/4/1/4	SHL S-T-R
595	FNL	1020	FEL	40.14411	-104.55063	1.4	4942	NENE	16-2-64
BHL FOOTAGE				BHL LAT °	BHL LONG °	BHL S-T-R	TPZ LAT °	TPZ LONG °	TPZ S-T-R
300	FNL	2585	FWL	40.17378	-104.55654	4-2-64	40.14613	-104.55671	9-2-64
							BPZ LAT °	BPZ LONG °	BPZ S-T-R
							40.17334	-104.55655	4-2-64

NOTE:

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- Latitude and Longitude shown are (NAD 83 DATUM).
- IMPROVEMENTS: See LOCATION DRAWING for all visible improvements.
- This map does not represent a boundary survey.



**SHEET 1 OF 1**  
Brian S. Rottinghaus—On behalf of Lat40°, Inc.  
Colorado Licensed Professional Land Surveyor No. 38571  
DATE: 3/29/2022  
PROJECT#: 2022033

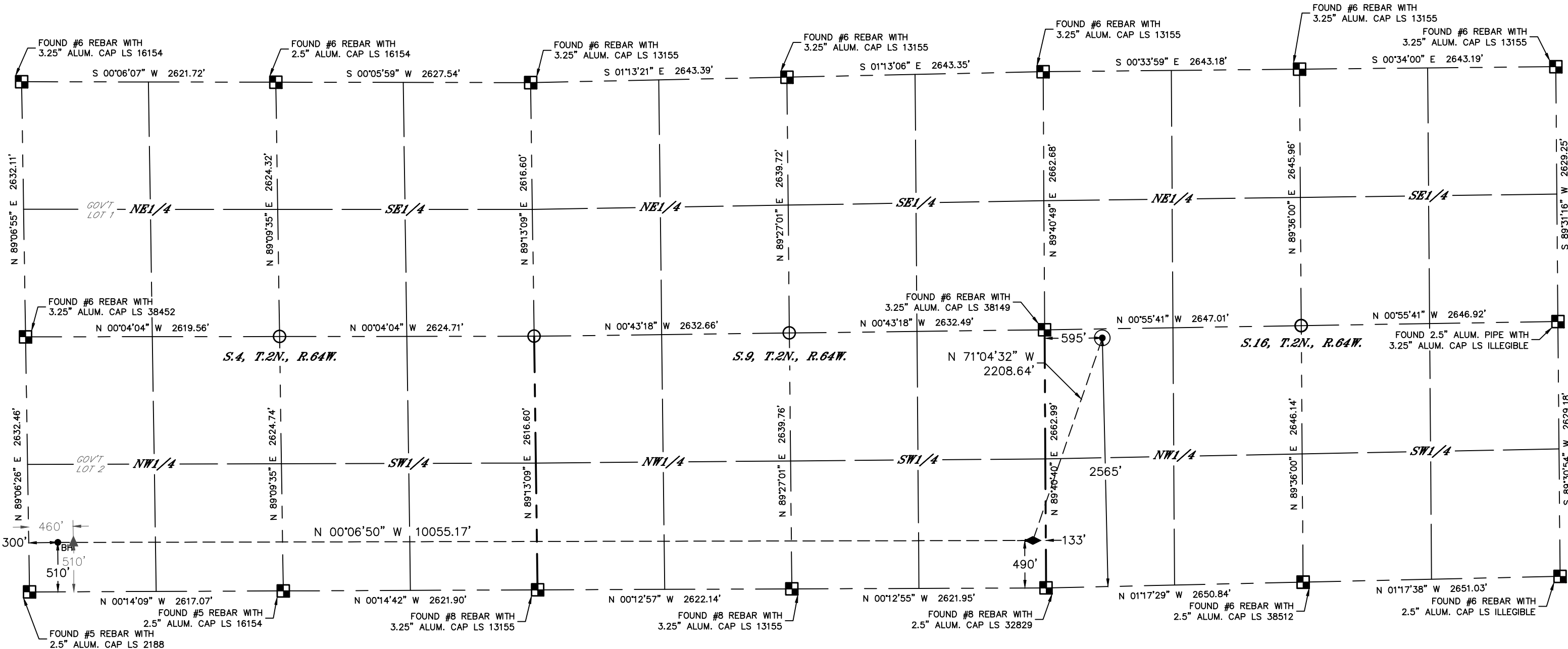


Second Amendment Exhibit A  
Lat40°, Inc. 6250 W. 10th Street, Unit 2, Greeley, CO 970-515-5294

# WELL LOCATION CERTIFICATE

GIG-EM STATE Y9-782  
NOBLE ENERGY INC

Q: NW/4,NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO



- LEGEND
- = ALIQUOT MONUMENT AS DESCRIBED
  - = CALCULATED POSITION
  - = SURFACE HOLE LOCATION (SHL)
  - ◆ = TOP OF PRODUCTIVE ZONE (TPZ)
  - ▲ = BOTTOM OF PRODUCTIVE ZONE (BPZ)
  - = BOTTOM HOLE LOCATION (BHL)
  - ⊙ = EXISTING WELL
  - ⊖ = ABANDONED WELL

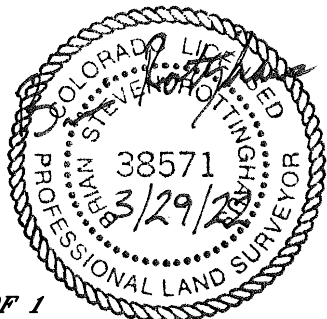
CLIENT: NOBLE ENERGY INC				LANDMAN: GREG WILSON			
INSTRUMENT OPERATOR: RYAN CHAMPION				SURVEY DATE: 2/10/2022		SURFACE USE: EXISTING PAD	
SHL FOOTAGE		SHL LAT°	SHL LONG°	SHL PDOP	SHL ELEV (FT.)	SHL 1/4/1/4	SHL S-T-R
595	FNL	2565	FWL	40.14413	-104.55683	1.9	4911
						NENW	16-2-64

BHL FOOTAGE		BHL LAT°	BHL LONG°	BHL S-T-R	TPZ LAT°	TPZ LONG°	TPZ S-T-R
300	FNL	510	FWL	40.17375	-104.56397	4-2-64	40.14616
						-104.56428	9-2-64

BPZ LAT°	BPZ LONG°	BPZ S-T-R
40.17331	-104.56397	4-2-64

NOTE:

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**SHEET 1 OF 1**  
Brian S. Rottinghaus—On behalf of Lat40°, Inc.  
Colorado Licensed Professional Land Surveyor No. 38571  
DATE: 3/29/2022  
PROJECT#: 2022033

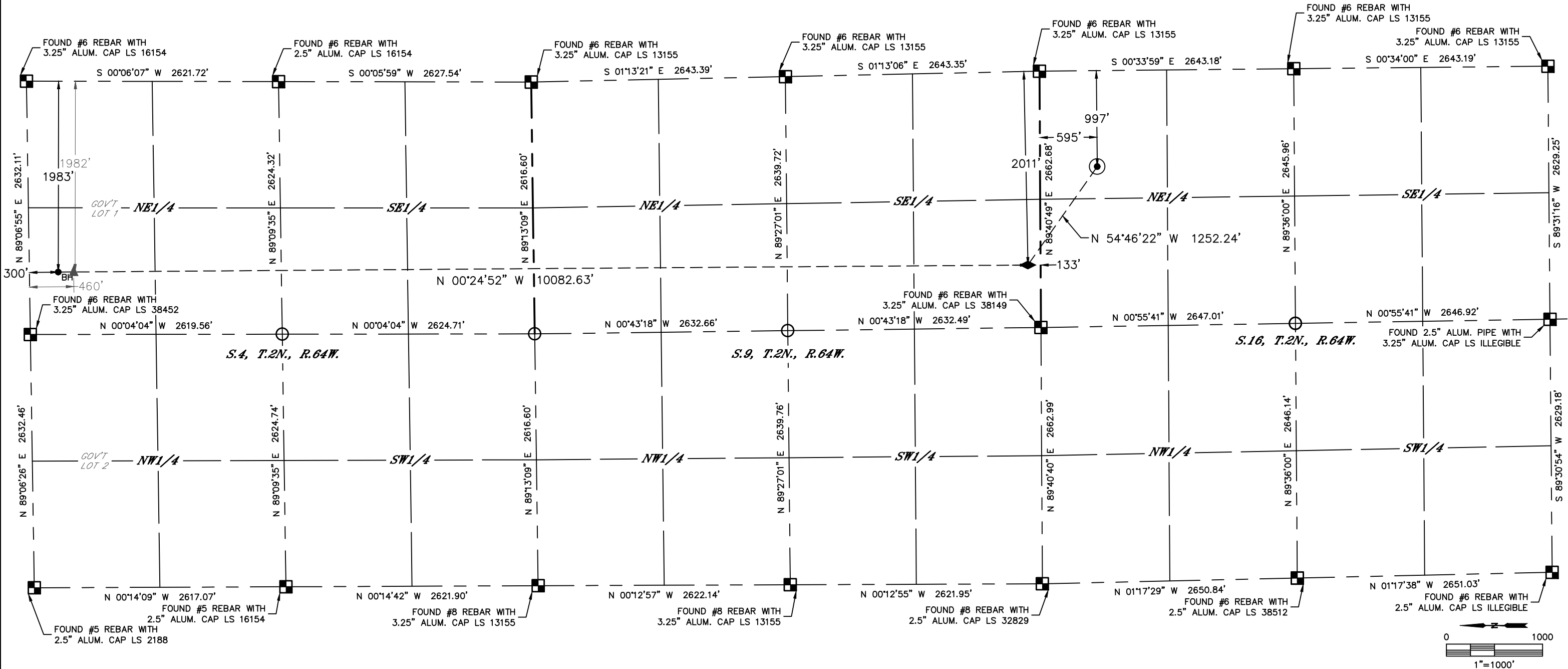


Second Amendment Exhibit A  
Lat40°, Inc. 6250 W. 10th Street, Unit 2, Greeley, CO 970-515-5294

# WELL LOCATION CERTIFICATE

GIG-EM STATE Y9-740  
NOBLE ENERGY INC

Q: NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO

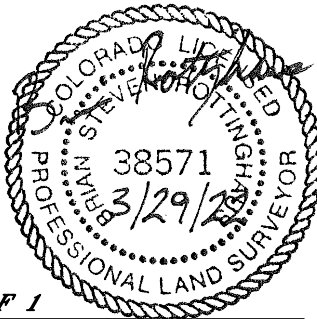


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  - ◆ = TOP OF PRODUCTIVE ZONE (TPZ)
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  - <sub>BH</sub> = BOTTOM HOLE LOCATION (BHL)
  - ⊙ = EXISTING WELL
  - ⊙ = ABANDONED WELL

CLIENT: NOBLE ENERGY INC				LANDMAN: GREG WILSON					
INSTRUMENT OPERATOR: RYAN CHAMPION				SURVEY DATE: 2/10/2022		SURFACE USE: EXISTING PAD			
SHL FOOTAGE				SHL LAT°	SHL LONG°	SHL PDOP	SHL ELEV (FT.)	SHL 1/4/1/4	SHL S-T-R
595	FNL	997	FEL	40.14411	-104.55055	1.4	4943	NENE	16-2-64
BHL FOOTAGE				BHL LAT°	BHL LONG°	BHL S-T-R	TPZ LAT°	TPZ LONG°	TPZ S-T-R
300	FNL	1983	FEL	40.17379	-104.55406	4-2-64	40.14612	-104.55418	9-2-64
BPZ LAT°		BPZ LONG°		BPZ S-T-R					
40.17335		-104.55406		4-2-64					

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**SHEET 1 OF 1**  
Brian S. Rottinghaus—On behalf of Lat40°, Inc.  
Colorado Licensed Professional Land Surveyor No. 38571  
DATE: 3/29/2022  
PROJECT#: 2022033



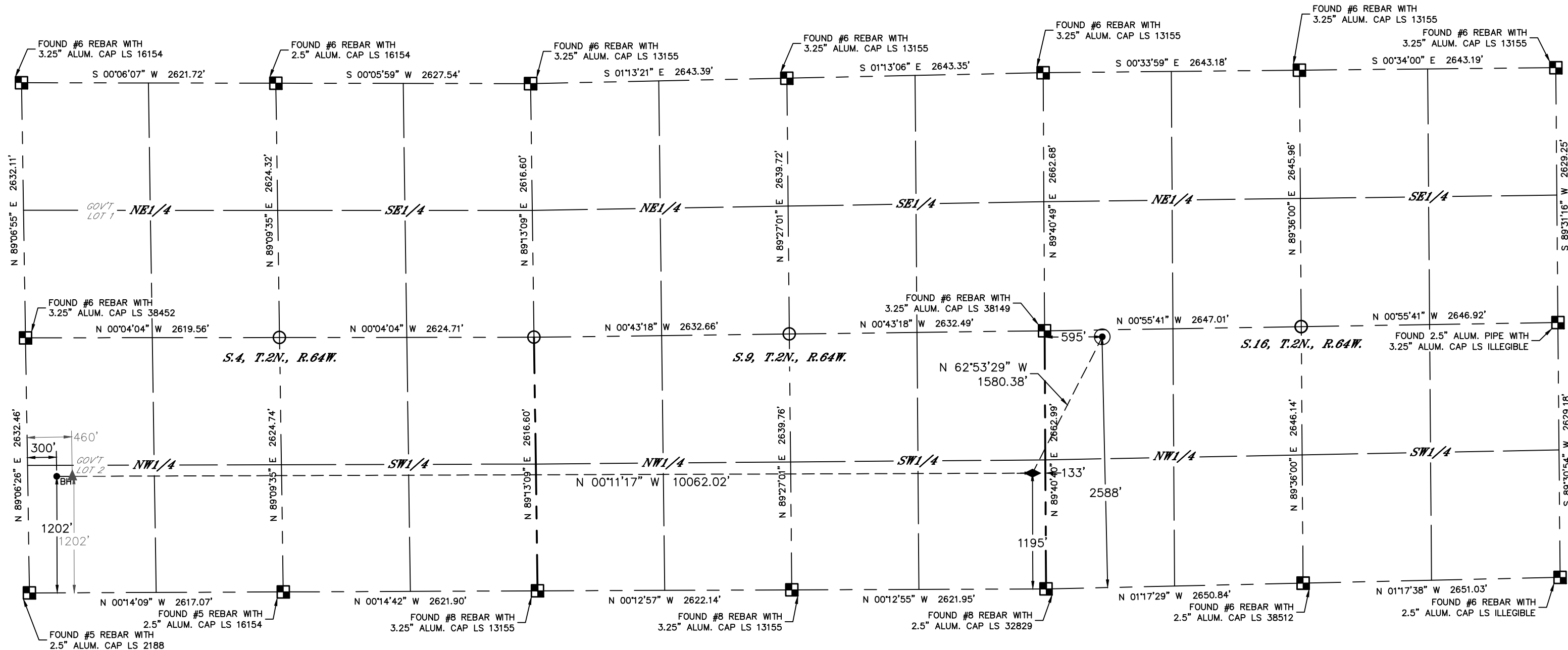


Second Amendment Exhibit A  
Lat40°, Inc. 6250 W. 10th Street, Unit 2, Greeley, CO 970-515-5294

# WELL LOCATION CERTIFICATE

GIG-EM STATE Y9-772  
NOBLE ENERGY INC

Q: NW/4,NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO



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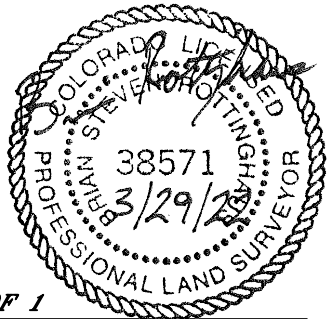
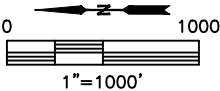
CLIENT: NOBLE ENERGY INC				LANDMAN: GREG WILSON			
INSTRUMENT OPERATOR: RYAN CHAMPION				SURVEY DATE: 2/10/2022		SURFACE USE: EXISTING PAD	
SHL FOOTAGE		SHL LAT°	SHL LONG°	SHL PDOP	SHL ELEV (FT.)	SHL 1/4/1/4	SHL S-T-R
595	FNL	2588	FWL	40.14413	-104.55675	1.9	4911
						NENW	16-2-64

BHL FOOTAGE		BHL LAT°	BHL LONG°	BHL S-T-R	TPZ LAT°	TPZ LONG°	TPZ S-T-R
300	FNL	1202	FWL	40.17376	-104.56149	4-2-64	40.14615
						-104.56175	9-2-64

BPZ LAT°	BPZ LONG°	BPZ S-T-R
40.17332	-104.56150	4-2-64

NOTE:

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**SHEET 1 OF 1**  
Brian S. Rottinghaus—On behalf of Lat40°, Inc.  
Colorado Licensed Professional Land Surveyor No. 38571  
DATE: 3/29/2022  
PROJECT#: 2022033

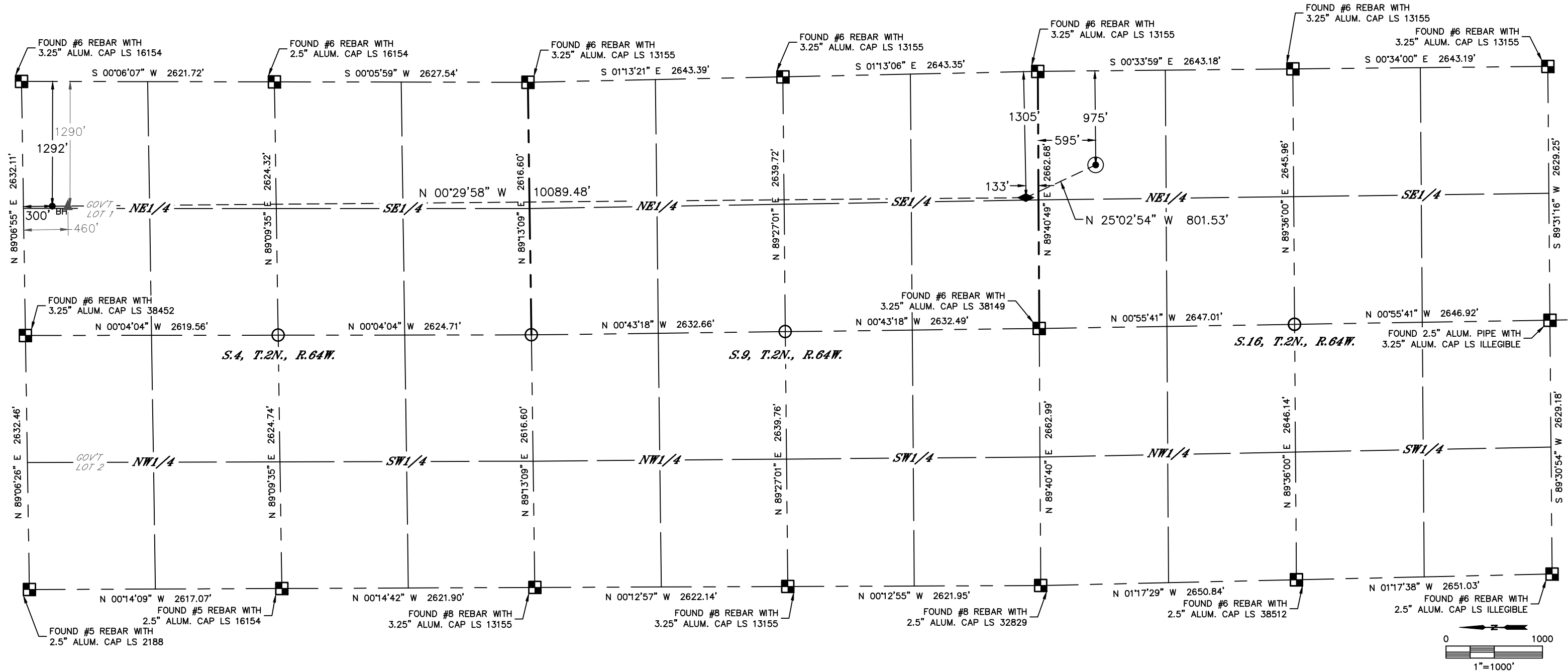


Second Amendment Exhibit A  
Lat40°, Inc. 6250 W. 10th Street, Unit 2, Greeley, CO 970-515-5294

# WELL LOCATION CERTIFICATE

GIG-EM STATE Y9-730  
NOBLE ENERGY INC

Q: NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO

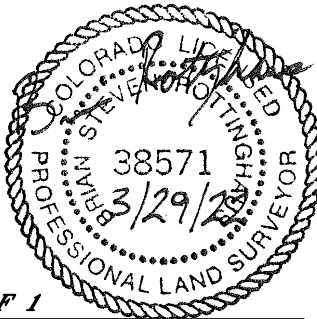


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  - <sub>BH</sub> = BOTTOM HOLE LOCATION (BHL)
  - ⊙ = EXISTING WELL
  - ⊖ = ABANDONED WELL

CLIENT: NOBLE ENERGY INC					LANDMAN: GREG WILSON				
INSTRUMENT OPERATOR: RYAN CHAMPION					SURVEY DATE: 2/10/2022		SURFACE USE: EXISTING PAD		
SHL FOOTAGE				SHL LAT°	SHL LONG°	SHL PDOP	SHL ELEV (FT.)	SHL 1/4/1/4	SHL S-T-R
595	FNL	975	FEL	40.14411	-104.55047	1.4	4943	NENE	16-2-64
BHL FOOTAGE				BHL LAT°	BHL LONG°	BHL S-T-R	TPZ LAT°	TPZ LONG°	TPZ S-T-R
300	FNL	1292	FEL	40.17380	-104.55159	4-2-64	40.14611	-104.55166	9-2-64
BPZ LAT°			BPZ LONG°		BPZ S-T-R				
40.17336			-104.55159		4-2-64				

NOTE:

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**SHEET 1 OF 1**  
Brian S. Rottinghaus—On behalf of Lat40°, Inc.  
Colorado Licensed Professional Land Surveyor No. 38571  
DATE: 3/29/2022  
PROJECT#: 2022033

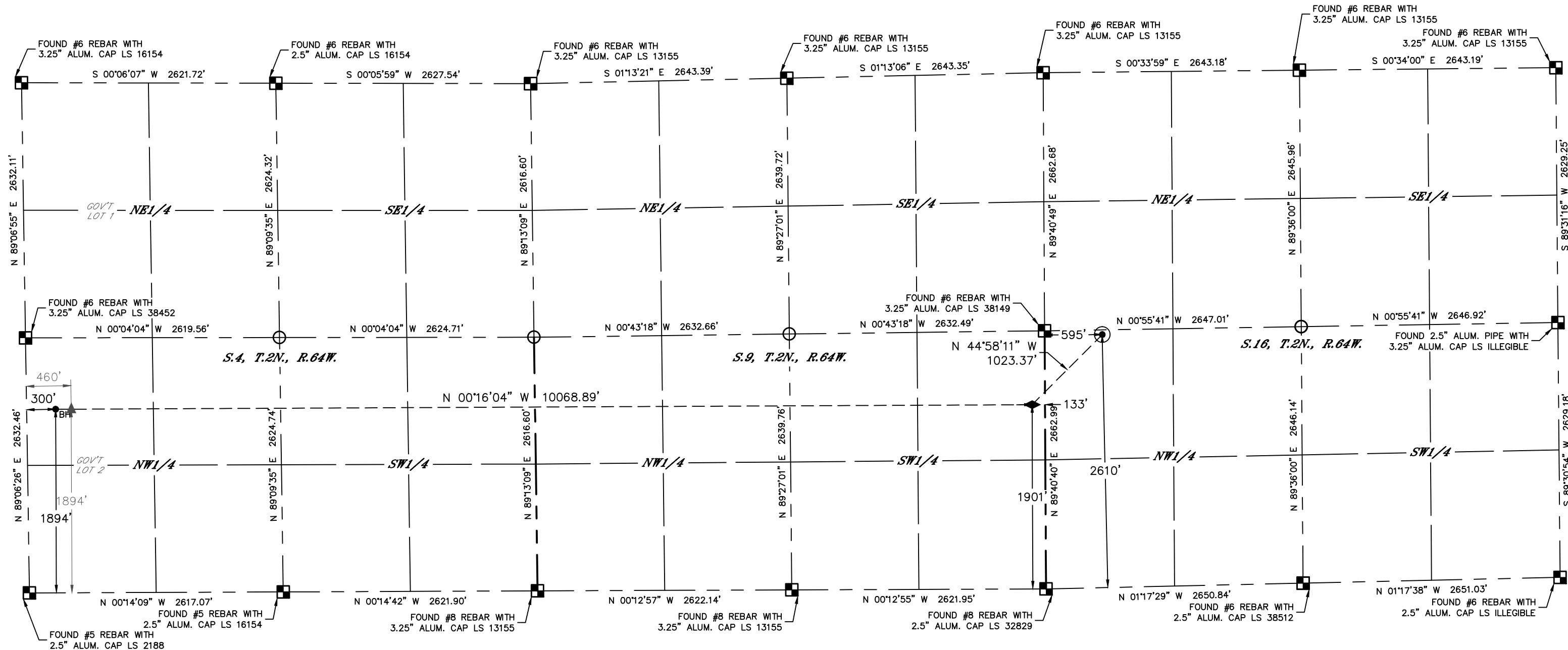


Second Amendment Exhibit A  
Lat40°, Inc. 6250 W. 10th Street, Unit 2, Greeley, CO 970-515-5294

# WELL LOCATION CERTIFICATE

GIG-EM STATE Y9-761  
NOBLE ENERGY INC

Q: NW/4,NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO

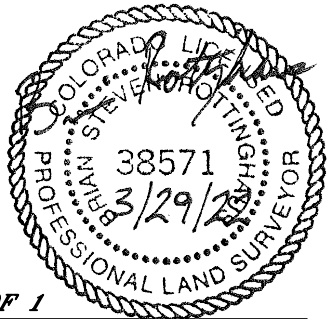
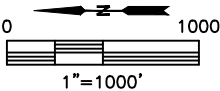


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  - = BOTTOM HOLE LOCATION (BHL)
  - ⊕ = EXISTING WELL
  - ⊖ = ABANDONED WELL

CLIENT: NOBLE ENERGY INC						LANDMAN: GREG WILSON			
INSTRUMENT OPERATOR: RYAN CHAMPION						SURVEY DATE: 2/10/2022		SURFACE USE: EXISTING PAD	
SHL FOOTAGE				SHL LAT °	SHL LONG °	SHL PDOP	SHL ELEV (FT.)	SHL 1/4/1/4	SHL S-T-R
595	FNL	2610	FWL	40.14413	-104.55667	1.9	4911	NENW	16-2-64
BHL FOOTAGE				BHL LAT °	BHL LONG °	BHL S-T-R	TPZ LAT °	TPZ LONG °	TPZ S-T-R
300	FNL	1894	FWL	40.17377	-104.55902	4-2-64	40.14614	-104.55923	9-2-64
							BPZ LAT °	BPZ LONG °	BPZ S-T-R
							40.17333	-104.55902	4-2-64

NOTE:

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Brian S. Rottinghaus—On behalf of Lat40°, Inc.  
Colorado Licensed Professional Land Surveyor No. 38571  
DATE: 3/29/2022  
PROJECT#: 2022033



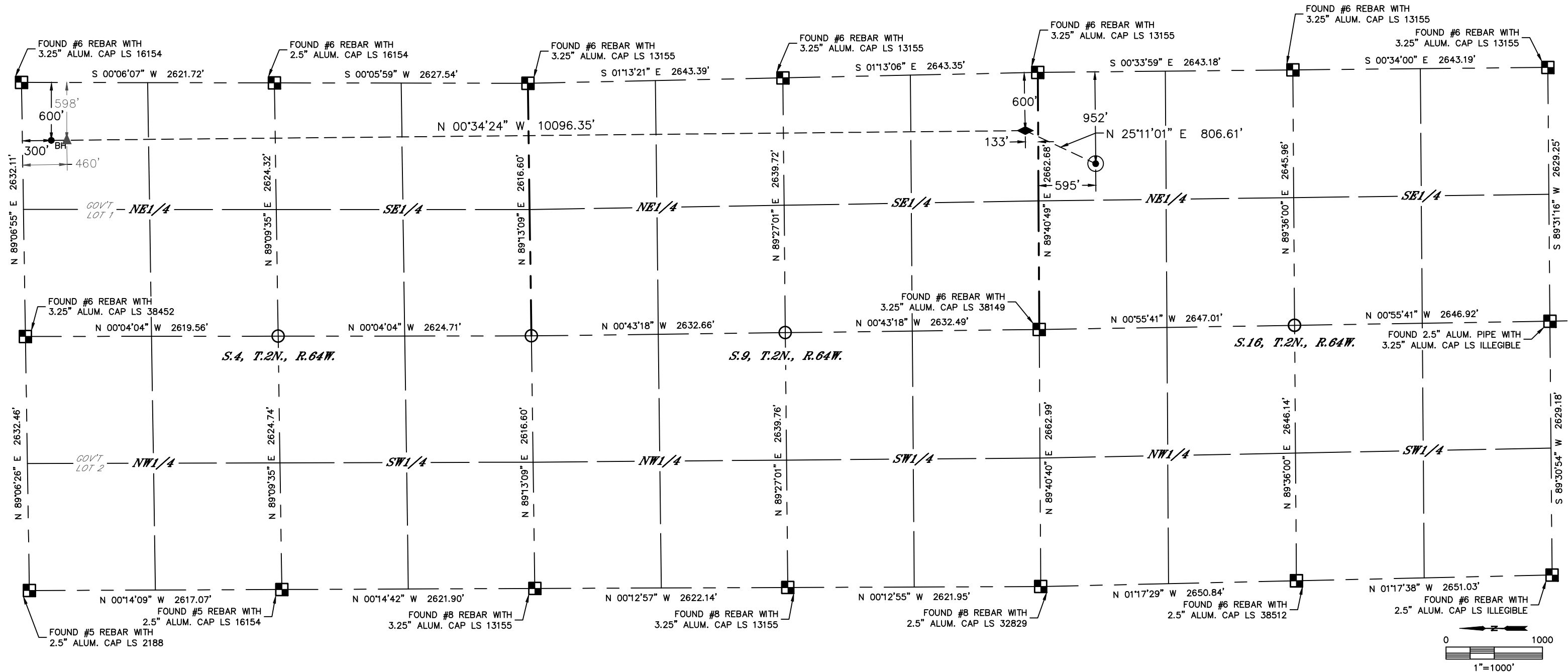


Second Amendment Exhibit A  
Lat40°, Inc. 6250 W. 10th Street, Unit 2, Greeley, CO 970-515-5294

# WELL LOCATION CERTIFICATE

GIG-EM STATE Y9-719  
NOBLE ENERGY INC

Q: NE/4  
SECTION: 16  
TOWNSHIP: 2N  
RANGE: 64W  
6TH. P.M.  
WELD, CO

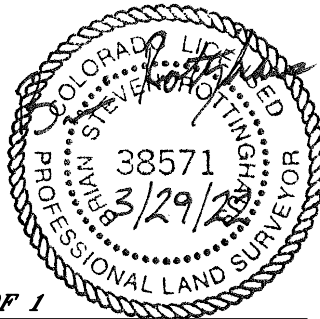


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  - <sub>BH</sub> = BOTTOM HOLE LOCATION (BHL)
  - ⊙ = EXISTING WELL
  - ⊙ = ABANDONED WELL

CLIENT: NOBLE ENERGY INC						LANDMAN: GREG WILSON				
INSTRUMENT OPERATOR: RYAN CHAMPION						SURVEY DATE: 2/10/2022		SURFACE USE: EXISTING PAD		
SHL FOOTAGE				SHL LAT °	SHL LONG °	SHL PDOP	SHL ELEV (FT.)	SHL 1/4/1/4	SHL S-T-R	
595	FNL	952	FEL	40.14411	-104.55039	1.4	4943	NENE	16-2-64	
BHL FOOTAGE				BHL LAT °	BHL LONG °	BHL S-T-R	TPZ LAT °	TPZ LONG °	TPZ S-T-R	
300	FNL	600	FEL	40.17381	-104.54911	4-2-64	40.14610	-104.54914	9-2-64	
								BPZ LAT °	BPZ LONG °	BPZ S-T-R
								40.17337	-104.54911	4-2-64

NOTE:

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**SHEET 1 OF 1**  
Brian S. Rottinghaus—On behalf of Lat40°, Inc.  
Colorado Licensed Professional Land Surveyor No. 38571  
DATE: 3/29/2022  
PROJECT#: 2022033

Second Amendment Exhibit A

Well Name	Spacing Unit	SLB Mineral Ownership Percentage
Y16-29 PAD		
Hullabaloo State Y21-787	2N-64W-16: W2W2 2N-64W-17: E2E2 2N-64W-20: E2E2 2N-64W-21: W2W2 2N-64W-28: NWNW 2N-64W-29: NENE	22.22222%
Hullabaloo State Y21-781	2N-64W-16: W2W2 2N-64W-21: W2W2 2N-64W-28: NWNW	44.44444%
Hullabaloo State Y21-775	2N-64W-16: W2 2N-64W-21: W2 2N-64W-28: N2NW	44.44444%
Hullabaloo State Y21-769	2N-64W-16: W2 2N-64W-21: W2 2N-64W-28: N2NW	44.44444%
Y16-28 PAD		
Hullabaloo State Y21-763	2N-64W-16: E2W2 2N-64W-21: E2W2 2N-64W-28: NENW	44.44444%
Hullabaloo State Y21-756	2N-64W-16: E2W2, W2E2 2N-64W-21: E2W2, W2E2 2N-64W-28: NENW, NWNE	44.44444%
Gig Em State Y9-782	2N-64W-16: N2N2 2N-64W-9: ALL 2N-64W-4: ALL	11.11111%
Gig Em State Y9-772	2N-64W-16: N2N2 2N-64W-9: ALL 2N-64W-4: ALL	11.11111%
Gig Em State Y9-761	2N-64W-16: N2N2 2N-64W-9: ALL 2N-64W-4: ALL	11.11111%
Y16-27 PAD		
Hullabaloo State Y21-746	2N-64W-16: E2W2, W2E2 2N-64W-21: E2W2, W2E2 2N-64W-28: NENW, NWNE	44.44444%
Hullabaloo State Y21-736	2N-64W-16: E2 2N-64W-21: E2 2N-64W-28: N2NE	44.44444%
Hullabaloo State Y21-726	2N-64W-16: E2 2N-64W-21: E2 2N-64W-28: N2NE	44.44444%
Hullabaloo State Y21-716	2N-64W-15: W2W2 2N-64W-16: E2E2 2N-64W-21: E2E2 2N-64W-22: W2W2 2N-64W-27: NWNW 2N-64W-28: NENE	22.22222%
Gig Em State Y9-751	2N-64W-16: N2N2 2N-64W-9: ALL 2N-64W-4: ALL	11.11111%
Gig Em State Y9-740	2N-64W-16: N2N2 2N-64W-9: ALL 2N-64W-4: ALL	11.11111%
Gig Em State Y9-730	2N-64W-16: N2N2 2N-64W-9: ALL 2N-64W-4: ALL	11.11111%
Gig Em State Y9-719	2N-64W-16: N2N2 2N-64W-9: ALL 2N-64W-4: ALL	11.11111%
UNWEIGHTED WELLBORE OWNERSHIP AVERAGE		28.10457%

DP Total Surface Acreage	SLB Surface Acreage	SLB Percentage
3440	640	18.604651%