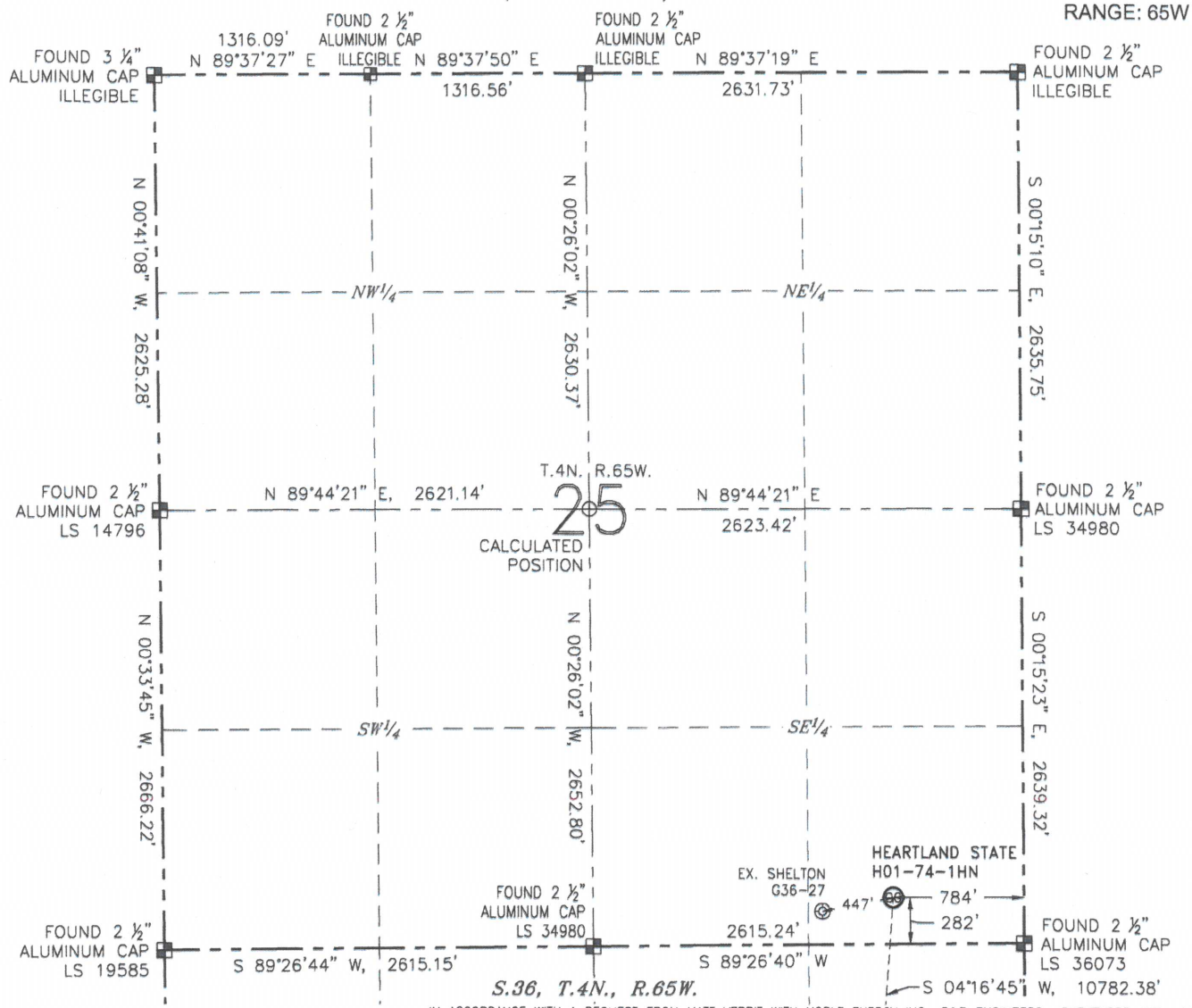
R&R ENGINEERS-SURVEYORS, INC. 7352 GREENRIDGE RD. STE. B5, WINDSOR, CO 80550 303-753-6730

WELL LOCATION CERTIFICATE

HEARTLAND STATE H01-74-1HN

(SHEET 1 OF 3)

SECTION: 25
TOWNSHIP: 4N
RANGE: 65W



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:** ANTONIO SMITH.
6. **THE NEAREST EXISTING WELL:** SHELTON G36-27, 447' SW.

IN ACCORDANCE WITH A REQUEST FROM MATT VERBIT WITH NOBLE ENERGY INC., R&R ENGINEERS- SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE HEARTLAND STATE H01-74-1HN WELL TO BE 282' FROM THE SOUTH LINE AND 784' FROM THE EAST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 25, TOWNSHIP 4 NORTH, RANGE 65 WEST, AND THE BOTTOM HOLE LOCATION TO BE 75' FROM THE SOUTH LINE AND 1650' FROM THE EAST LINE AS MEASURED AT RIGHT ANGLES FROM THE SECTION LINES OF SECTION 1, TOWNSHIP 3 NORTH, RANGE 65 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 09/30/2013, 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.

NEAREST CULTURAL ITEMS:

BUILDING:	1697' E
BUILDING UNIT:	1788' SE
HIGH OCCUPANCY BUILDING UNIT:	5280'+
DESIGNATED OUTSIDE ACTIVITY AREA:	5280'+
PUBLIC ROAD (CR 49):	764' E
ABOVEGROUND UTILITY:	252' S
RAILROAD:	5280'+
PROPERTY LINE:	282' S

N

0 1000'

SCALE: 1" = 1000'

SURFACE HOLE LOCATION

LATITUDE:	N 40.27673'
LONGITUDE:	W 104.60515'
PDOP:	1.9
ELEVATION:	4834'
¼-¼:	SE¼SE¼

BOTTOM HOLE LOCATION

LATITUDE:	N 40.24724'
LONGITUDE:	W 104.60842'

LEGEND

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

COLORADO LICENSED ANTONIO W. SMITH 1/8/14 38320 PROFESSIONAL LAND SURVEYOR

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

DATE: 01/08/2014
JOB NO.: NE13301

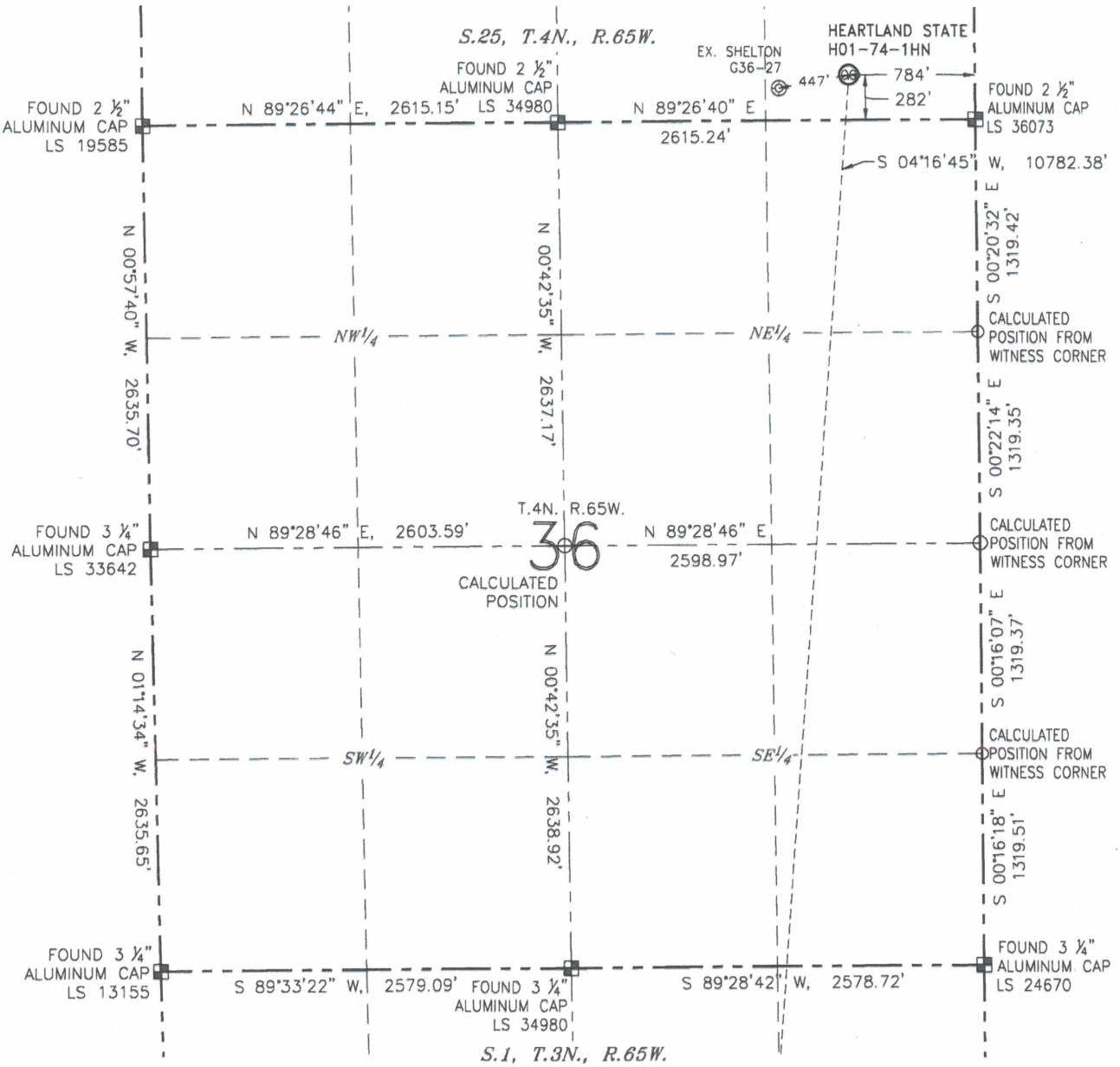
R&R ENGINEERS-SURVEYORS, INC. 7352 GREENRIDGE RD. STE. B5, WINDSOR, CO 80550 303-753-6730

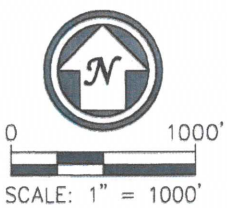
WELL LOCATION CERTIFICATE

HEARTLAND STATE H01-74-1HN

(SHEET 2 OF 3)

SECTION: 25
TOWNSHIP: 4N
RANGE: 65W





LEGEND

- PROPOSED WELL
- EXISTING WELL
- FOUND MONUMENT
- CALCULATED POSITION

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

DATE: 01/08/2014
JOB NO.: NE13301

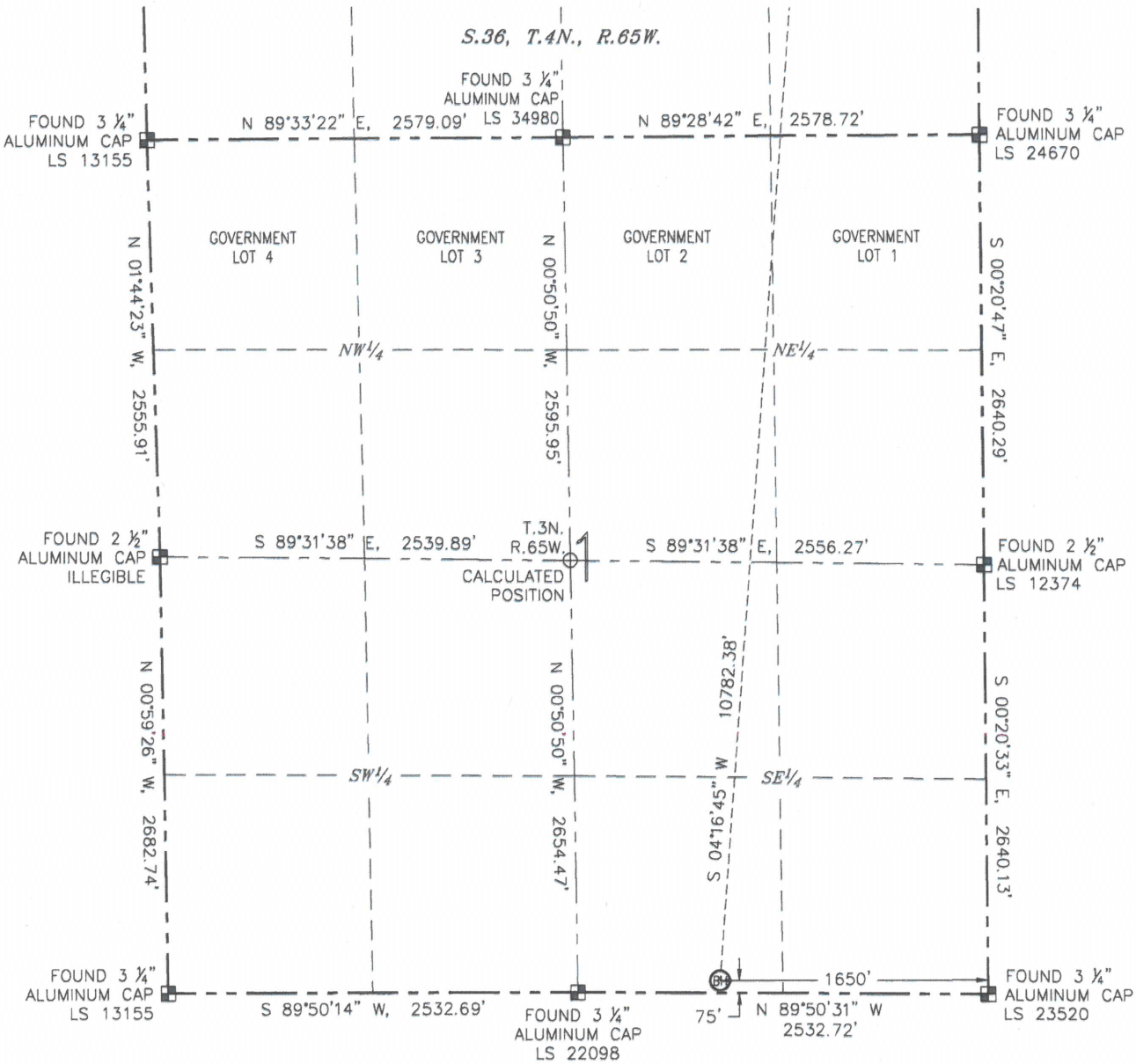
R&R ENGINEERS-SURVEYORS, INC. 7352 GREENRIDGE RD. STE. B5, WINDSOR, CO 80550 303-753-6730

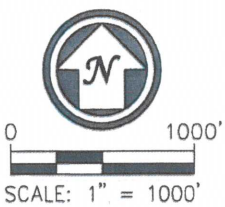
WELL LOCATION CERTIFICATE

HEARTLAND STATE H01-74-1HN

(SHEET 3 OF 3)

SECTION: 25
TOWNSHIP: 4N
RANGE: 65W





LEGEND

- BOTTOM HOLE
- FOUND MONUMENT
- CALCULATED POSITION

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

DATE: 01/08/2014
JOB NO.: NE13301

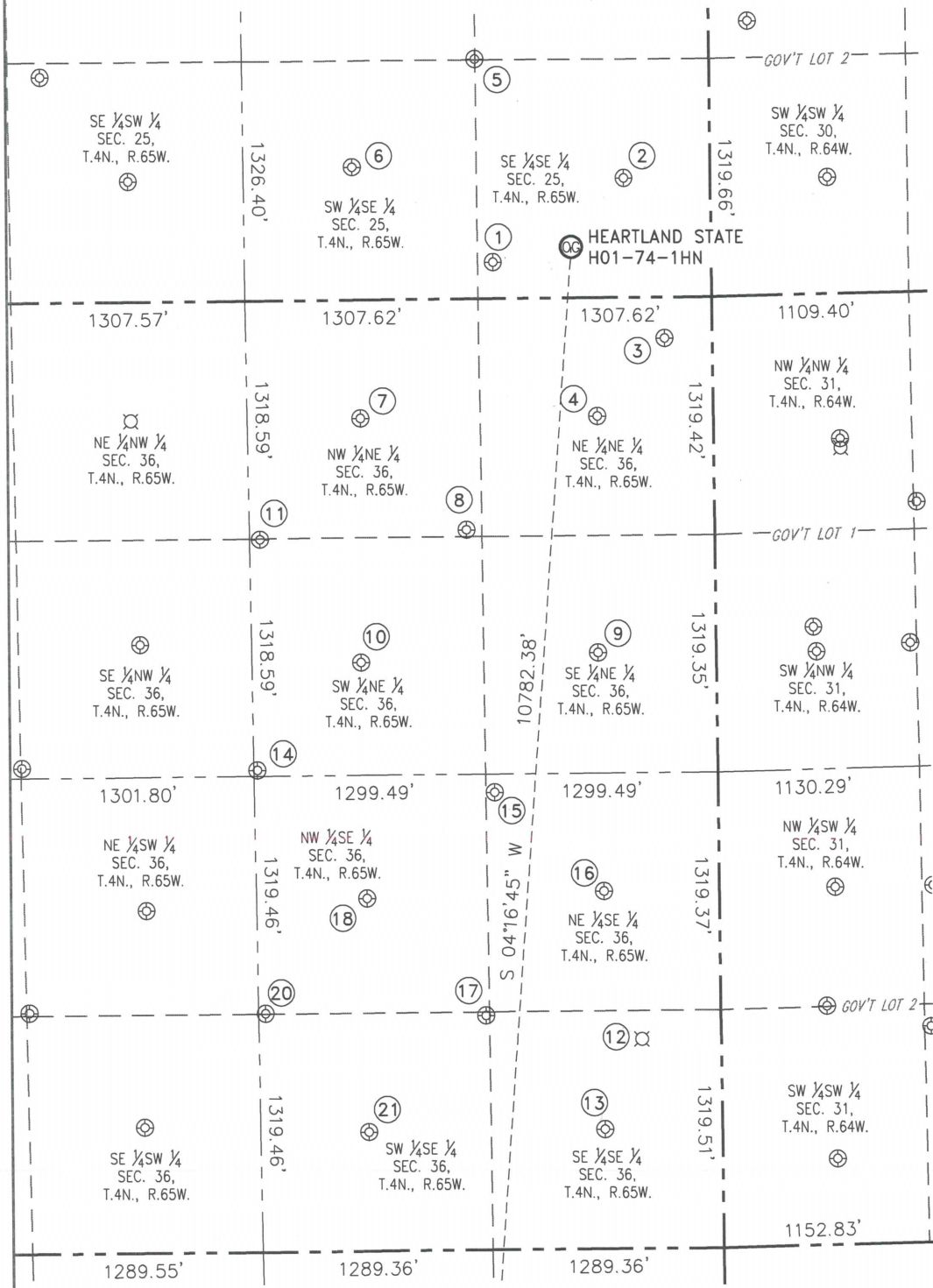
R&R ENGINEERS-SURVEYORS, INC. 7352 GREENRIDGE RD. STE. B5, WINDSOR, CO 80550 303-753-6730

SITE SKETCH

HEARTLAND STATE H01-74-1HN

(SHEET 1 OF 2)

SECTION: 25
TOWNSHIP: 4N
RANGE: 65W



1. SHELTON G36-27
SE¼SE¼
201' FSL 1223' FEL
LAT: N 40.27651°
LONG: W 104.60672°
PDOP: 1.3
ELEV: 4830'

2. OCOMA G25-16
SE¼SE¼
662' FSL 486' FEL
LAT: N 40.27777°
LONG: W 104.60407°
PDOP: 1.4
ELEV: 4843'

3. PEDRO STATE C31-79HN
NE¼NE¼
229' FNL 268' FEL
LAT: N 40.27533°
LONG: W 104.60331°
PDOP: 1.8
ELEV: 4846'

4. GERRITY STATE G36-1
NE¼NE¼
657' FNL 650' FEL
LAT: N 40.27416°
LONG: W 104.60468°
PDOP: 1.9
ELEV: 4844'

5. OCOMA G25-23
NW¼SE¼
1328' FSL 1313' FEL
LAT: N 40.27960°
LONG: W 104.60702°
PDOP: 1.5
ELEV: 4822'

6. OCOMA G25-15
SW¼SE¼
736' FSL 2010' FEL
LAT: N 40.27798°
LONG: W 104.60953°
PDOP: 12.1
ELEV: 4821'

7. GERRITY STATE G36-2
NW¼NE¼
658' FNL 1979' FEL
LAT: N 40.27415°
LONG: W 104.60944°
PDOP: 2.9
ELEV: 4825'

8. GERRITY STATE G36-17
NW¼NE¼
1282' FNL 1390' FEL
LAT: N 40.27244°
LONG: W 104.60734°
PDOP: 1.7
ELEV: 4833'

9. GERRITY STATE G36-8
SE¼NE¼
1970' FNL 663' FEL
LAT: N 40.27055°
LONG: W 104.60475°
PDOP: 1.6
ELEV: 4849'

10. GERRITY STATE G36-7
SW¼NE¼
2012' FNL 1991' FEL
LAT: N 40.27044°
LONG: W 104.60951°
PDOP: 2.4
ELEV: 4829'

11. PEDRO STATE G36-18
SW¼NE¼
1323' FNL 2548' FEL
LAT: N 40.27233°
LONG: W 104.61149°
PDOP: 2.7
ELEV: 4825'

12. DANE STATE G36-16S
SE¼SE¼
PER COGCC:
1161' FSL
445' FEL
PLUGGED & ABANDONED

13. STATE G36-16
SE¼SE¼
664' FSL 657' FEL
LAT: N 40.26329°
LONG: W 104.60477°
PDOP: 1.3
ELEV: 4867'

14. PEDRO STATE G36-21
SW¼NE¼
2605' FNL 2580' FEL
LAT: N 40.26881°
LONG: W 104.61163°
PDOP: 2.9
ELEV: 4822'

15. PEDRO STATE G36-22
NE¼SE¼
2536' FSL 1252' FEL
LAT: N 40.26844°
LONG: W 104.60687°
PDOP: 2.2
ELEV: 4835'

16. GERRITY STATE G36-9
NE¼SE¼
1983' FSL 647' FEL
LAT: N 40.26691°
LONG: W 104.60471°
PDOP: 1.5
ELEV: 4846'

17. GERRITY STATE G36-23
SW¼SE¼
1299' FSL 1314' FEL
LAT: N 40.26504°
LONG: W 104.60712°
PDOP: 1.3
ELEV: 4856'

18. GERRITY STATE G36-10
NW¼SE¼
1956' FSL 1973' FEL
LAT: N 40.26684°
LONG: W 104.60946°
PDOP: 1.5
ELEV: 4844'

20. PEDRO STATE G36-24
NW¼SE¼
1323' FSL 2549' FEL
LAT: N 40.26511°
LONG: W 104.61154°
PDOP: 1.37
ELEV: 4826'

21. GERRITY STATE G36-15
SW¼SE¼
661' FSL 1977' FEL
LAT: N 40.26329°
LONG: W 104.60950°
PDOP: 1.5
ELEV: 4843'

NOTES:
1. THIS SKETCH DOES NOT REPRESENT A BOUNDARY SURVEY.
2. HORIZONTAL DATUM IS NAD 83.
3. VERTICAL DATUM IS NAVD 88.

N

0 1000'

SCALE: 1" = 1000'

LEGEND

PROPOSED WELL
BOTTOM HOLE
EXISTING WELL
ABANDONED WELL

DATE: 01/08/2014
JOB NO.: NE13301

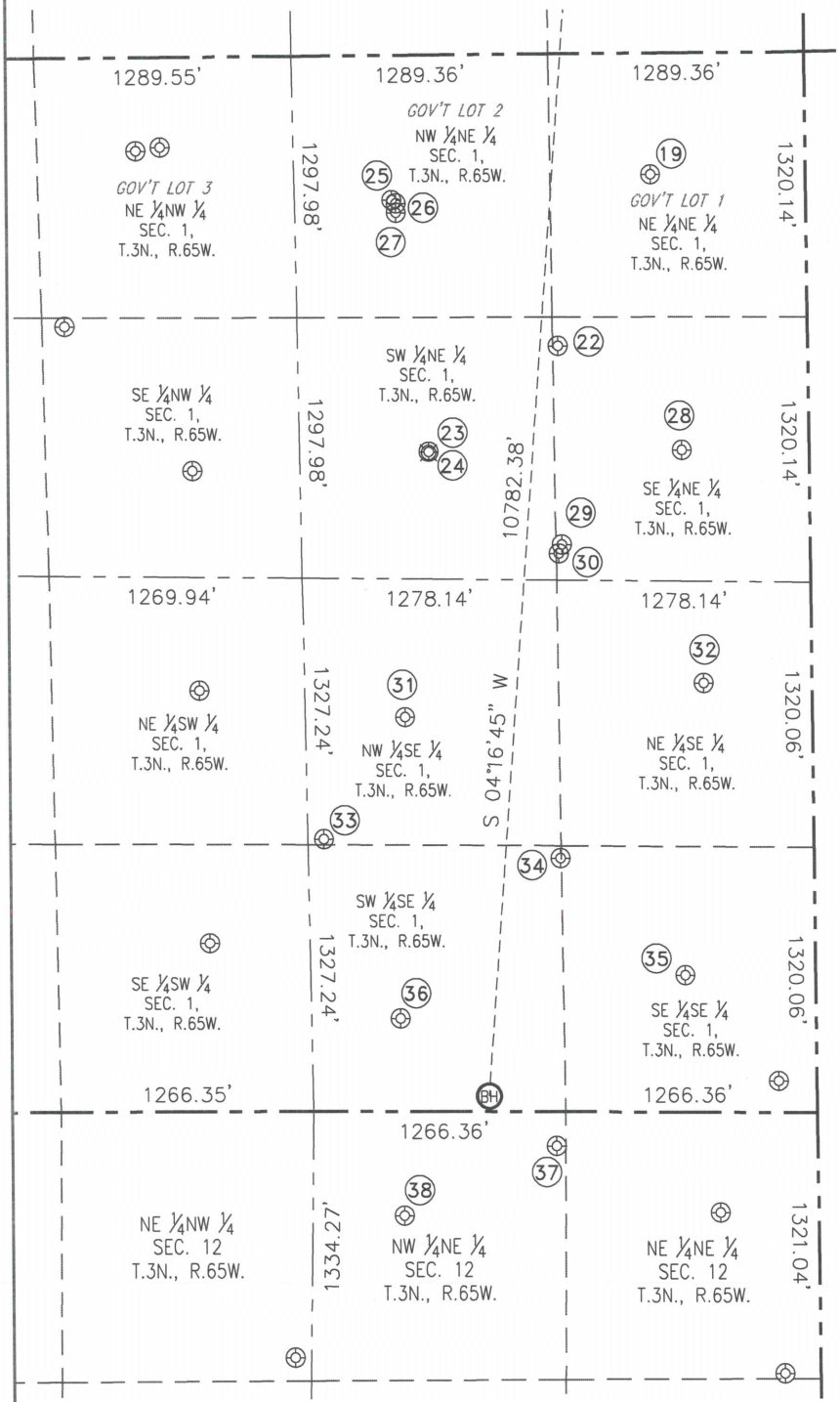
R&R ENGINEERS-SURVEYORS, INC. 7352 GREENRIDGE RD. STE. B5, WINDSOR, CO 80550 303-753-6730

SITE SKETCH

HEARTLAND STATE H01-74-1HN

(SHEET 2 OF 2)

SECTION: 25
TOWNSHIP: 4N
RANGE: 65W



(19)
COLLINS 1-1
NE¼NE¼
605' FNL 784' FEL
LAT: N 40.25981°
LONG: W 104.60525°
PDOP: 3.0
ELEV: 4872'

(22)
HOUNDSKEEPER H1-17
SE¼NE¼
1455' FNL 1259' FEL
LAT: N 40.25748°
LONG: W 104.60696°
PDOP: 2.4
ELEV: 4866'

(23)
HOUNDSKEEPER 1-13
SW¼NE¼
1975' FNL 1915' FEL
LAT: N 40.25605°
LONG: W 104.60932°
PDOP: 3.0
ELEV: 4874'

(24)
CPC STEWART 1-1
SW¼NE¼
PER COGCC:
466' FNL
1780' FWL
PLUGGED &
ABANDONED

(26)
HOUNDSKEEPER H1-28
NW¼NE¼
720' FNL 2085' FEL
LAT: N 40.25950°
LONG: W 104.60991°
PDOP: 1.7
ELEV: 4855'

(25)
HOUNDSKEEPER H1-27
NW¼NE¼
737' FNL 2065' FEL
LAT: N 40.25945°
LONG: W 104.60984°
PDOP: 1.8
ELEV: 4856'

(27)
LJS RH1-2
NW¼NE¼
783' FNL 2065' FEL
LAT: N 40.25933°
LONG: W 104.60984°
PDOP: 1.9
ELEV: 4856'

(28)
LJS RH 1-8
SE¼NE¼
1978' FNL 642' FEL
LAT: N 40.25604°
LONG: W 104.60476°
PDOP: 4.0
ELEV: 4858'

(29)
HOUNDSKEEPER PC H01-21D
SE¼NE¼
2443' FNL 1251' FEL
LAT: N 40.25477°
LONG: W 104.60695°
PDOP: 4.0
ELEV: 4870'

(30)
HOUNDSKEEPER H1-22
SE¼NE¼
2488' FNL 1267' FEL
LAT: N 40.25464°
LONG: W 104.60701°
PDOP: 4.1
ELEV: 4870'

(31)
UPRC 1-10J
NW¼SE¼
1961' FSL 2049' FEL
LAT: N 40.25243°
LONG: W 104.60982°
PDOP: 1.8
ELEV: 4870'

(32)
UPRC 1-9J
NE¼SE¼
2135' FSL 547' FEL
LAT: N 40.25285°
LONG: W 104.60444°
PDOP: 2.5
ELEV: 4855'

(33)
SHELTON H1-24
NW¼SE¼
1354' FSL 2465' FEL
LAT: N 40.25078°
LONG: W 104.61132°
PDOP: 1.8
ELEV: 4874'

(34)
SHELTON H1-23
SW¼SE¼
1262' FSL 1278' FEL
LAT: N 40.25048°
LONG: W 104.60707°
PDOP: 1.8
ELEV: 4875'

(35)
UPRC 1-16J
SE¼SE¼
681' FSL 658' FEL
LAT: N 40.24887°
LONG: W 104.60486°
PDOP: 1.8
ELEV: 4869'

(36)
UPRC 1-15J
SW¼NE¼
461' FSL 2091' FEL
LAT: N 40.24831°
LONG: W 104.60999°
PDOP: 2.3
ELEV: 4872'

(37)
STROH #12-27
NW¼NE¼
172' FNL 1314' FEL
LAT: N 40.24655°
LONG: W 104.60722°
PDOP: 2.1
ELEV: 4879'

(38)
STROH H12-2
NW¼NE¼
518' FNL 2083' FEL
LAT: N 40.24563°
LONG: W 104.60998°
PDOP: 1.9
ELEV: 4864'

NOTES:
1. THIS SKETCH DOES NOT REPRESENT A BOUNDARY SURVEY.
2. HORIZONTAL DATUM IS NAD 83.
3. VERTICAL DATUM IS NAVD 88.

N

0 1000'

SCALE: 1" = 1000'

LEGEND

PROPOSED WELL
BOTTOM HOLE
EXISTING WELL
ABANDONED WELL

DATE: 01/08/2014
JOB NO.: NE13301