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July 24, 2013

Colorado Oil and Gas Conservation Commission
The Chancery Building
1120 Lincoln Street, Suite 801
Denver, CO 80203
Attn: Mr. Matt Lepore, Director

RE: Mackinaw A19-79HNA
Niobrara New Drill
Township 6 North, Range 65 West, 6th P.M.
Section 24: NE/4NE/4: 330' FNL & 1077' FEL (Surface Location)
Township 6 North, Range 64 West, 6th P.M.
Section 19: NW/4NW/4: 960' FNL & 75' FWL (Beginning of Lateral)
Section 19: SW/4SW/4: 535' FSL & 75' FWL (Bottom Hole Location)
Weld County, Colorado

Dear Director:

Noble Energy, Inc. ("NEI") is planning to drill the captioned boundary well in accordance with the provisions of COGCC Rule 318A.e.

NEI's proposed wellbore spacing unit consists of the Sec 19: W/2W/2 of T6N-R64W, Sec 24: E/2E/2, T6N, R65W, creating a 197-acre wellbore spacing unit for the Niobrara formation. NEI is the only owner within the proposed wellbore spacing unit, therefore NEI hereby attests that no notice letters are required under COGCC Rule 318A(l).e.(6).

Enclosed are copies of the following documents to assist you in your review and approval of NEI's proposed APD for the captioned well:

- Map & plat illustrating proposed wellbore spacing unit.

Thank you for your attention to the enclosed. NEI respectfully requests that the COGCC review the enclosed information and approve the Application for Permit to Drill the captioned well.

Sincerely,

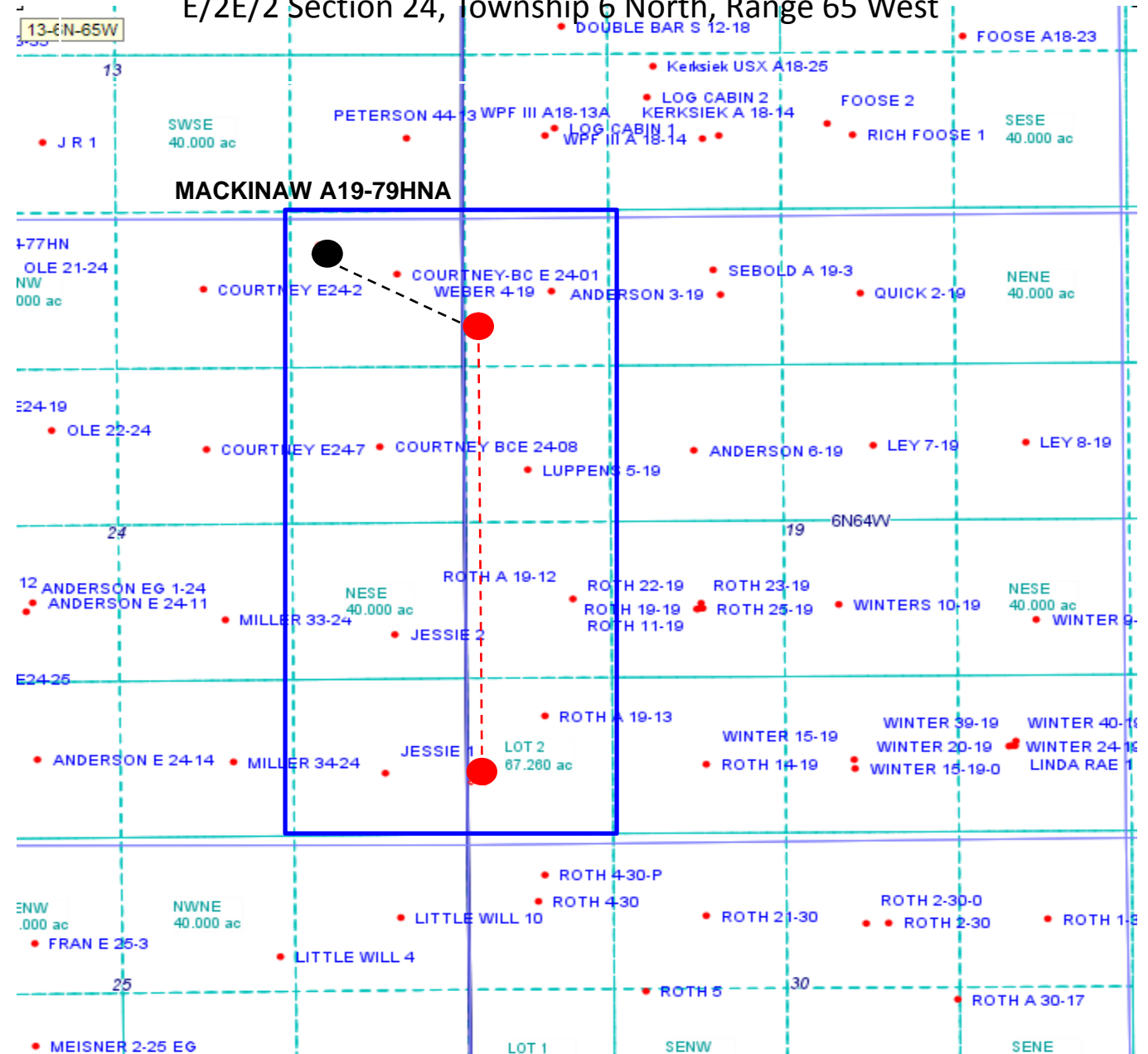
Justin Garrett
Regulatory Analyst II
Noble Energy Inc.

MACKINAW A19-79HNA

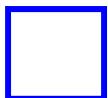
Proposed Spacing Unit – Noble Energy, Inc.

W/2W/2 Section 19, Township 6 North, Range 64 West

E/2E/2 Section 24, Township 6 North, Range 65 West



Legend



Proposed 297.23 acre spacing unit

Bottom Hole Location

WELL LOCATION CERTIFICATE

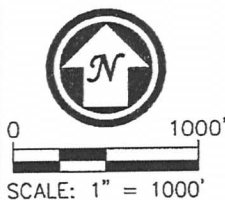
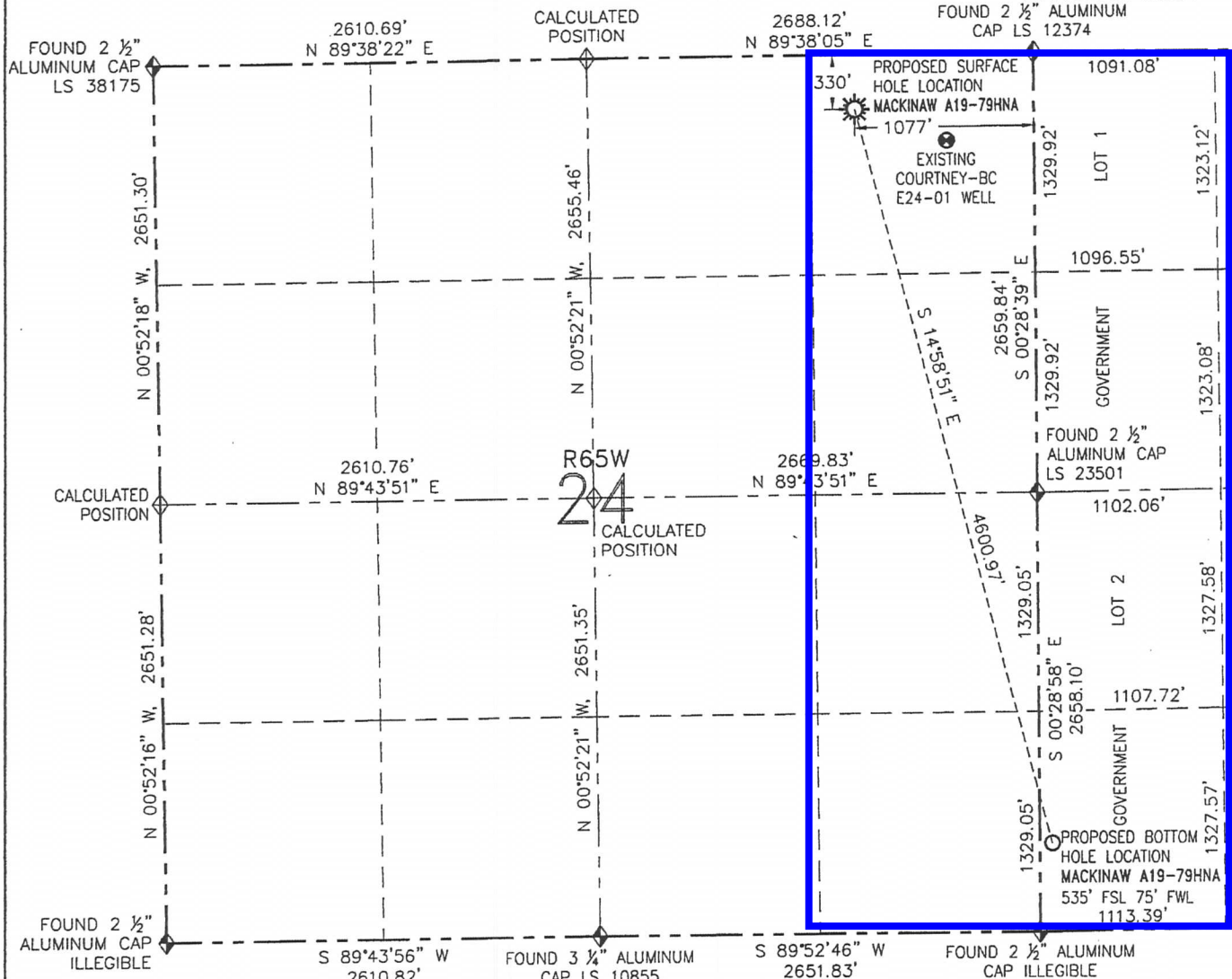
MACKINAW A19-79HNA

THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY

SECTION: 24

TOWNSHIP: 6 NORTH

RANGE: 65 WEST



SURFACE HOLE LOCATION (NAD 83)

LATITUDE: N 40.47782°
 LONGITUDE: W 104.60574°
 ELEVATION: 4684
 PDOP: 2.0
 1/4-1/4: NE NE
 NEAREST PROPERTY LINE: 266' W

BOTTOM HOLE LOCATION

LATITUDE: N 40.46559°
 LONGITUDE: W 104.60162°

IN ACCORDANCE WITH A REQUEST FROM MIKE RODINE-NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE MACKINAW A19-79HNA WELL TO BE 330' FNL AND 1077' FEL AS MEASURED AT (90) DEGREES FROM THE SECTION LINES OF SECTION 24, TOWNSHIP 6 NORTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO. THE BOTTOM HOLE LOCATION, AS PROVIDED BY THE CLIENT, IS TO BE 535' FSL AND 75' FWL OF SECTION 19, TOWNSHIP 6 NORTH, RANGE 64 WEST.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 12/18/12, 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.



DAVID C. HOLMES, PLS 32828
 FOR AND ON BEHALF OF R&R ENGINEERS-SURVEYORS, INC.

- LEGEND**
- PROPOSED WELL
 - EXISTING WELL
 - BOTTOM HOLE
 - FOUND MONUMENT
 - CALCULATED POSITION

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. ELEVATIONS ARE BASED UPON NGS OPUS SOLUTION NAVD 88 DATUM COMPUTED USING GEOID09.
3. THE NEAREST EXISTING WELL IS: COURTNEY-BC E24-01 586' SE.
4. SEE LOCATION DRAWING FOR ALL IMPROVEMENTS WITHIN 400' OF THE OIL/GAS LOCATION.
5. SURFACE USE: CROPLAND.

PAGE 1 OF SHEET 1



FIELD DATE: 12/18/12

PLOT DATE: 04/23/13

DRAWN BY: CJD

JOB NO.: NE12383

SHEET NO.: 1 of 20

NOTICE:

ACCORDING TO COLORADO LAW, YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS W.L.C. WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS W.L.C. BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON (13-80-105 C.R.S.).

WELL LOCATION CERTIFICATE

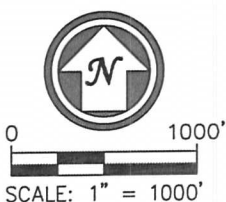
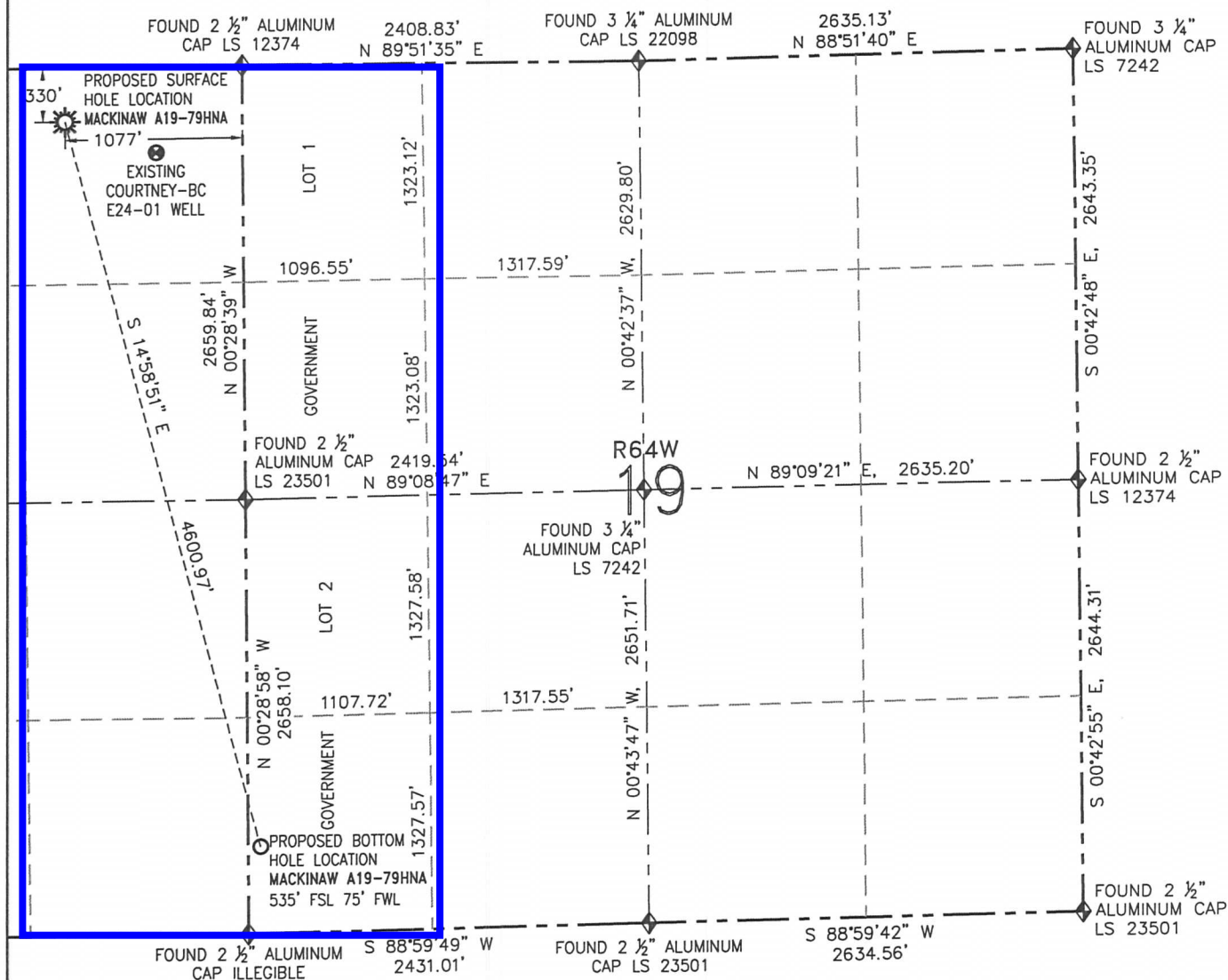
MACKINAW A19-79HNA

THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY

SHL-SECTION: 24

TOWNSHIP: 6 NORTH

RANGE: 65 WEST



SURFACE HOLE LOCATION (NAD 83)

LATITUDE: N 40.47782°
 LONGITUDE: W 104.60574°
 ELEVATION: 4684
 PDOP: 2.0
 1/4-1/4: NE NE
 NEAREST PROPERTY LINE: 266' W

BOTTOM HOLE LOCATION

LATITUDE: N 40.46559°
 LONGITUDE: W 104.60162°

PAGE 2 OF SHEET 1



FIELD DATE: 12/18/12

PLOT DATE: 04/23/13

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JOB NO.: NE12383

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LEGEND

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

SITE SKETCH

MACKINAW A19-79HNA

THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY

SECTION: 24

TOWNSHIP: 6 NORTH

RANGE: 65 WEST

① COURTNEY-BC E24-01
NE/NE SEC. 24
526' FNL
526' FEL
EL=4682
N 40.47727°
W 104.60376°
PDOP 2.5

② WEBER 4-19
NW/NW SEC. 19
½ GOVT LOT 1
668' FNL
651' FWL
EL=4680
N 40.47686°
W 104.59953°
PDOP 1.9

③ COURTNEY-BC E24-08
SE/NE SEC. 24
1994' FNL
662' FEL
EL=4680
N 40.47325°
W 104.60425°
PDOP 1.7

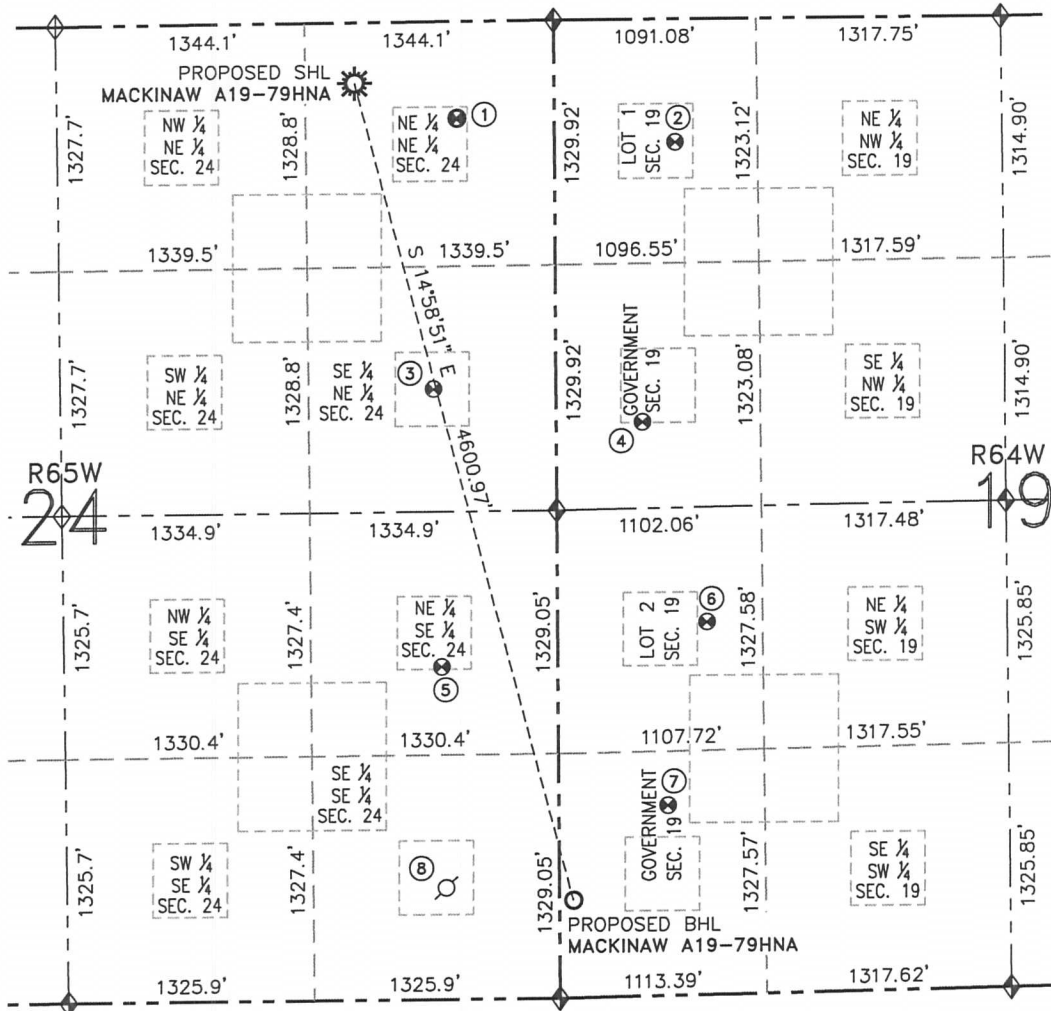
④ LUPPENS 5-19
SW/NW SEC. 19
½ GOVT LOT 1
2185' FNL
464' FWL
EL=4678
N 40.47271°
W 104.60021°
PDOP 1.8

⑤ JESSIE NO.2
NE/SE SEC. 24
1807' FSL
627' FEL
EL=4675
N 40.46909°
W 104.60414°
PDOP 1.6

⑥ ROTH A19-12
NW/SW SEC. 19
½ GOVT LOT 2
2026' FSL
805' FWL
EL=4671
N 40.46970°
W 104.59899°
PDOP 1.7

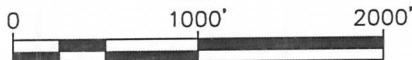
⑦ ROTH A19-13
SW/SW SEC. 19
½ GOVT LOT 2
1036' FSL
588' FWL
EL=4667
N 40.46697°
W 104.59978°
PDOP 2.1

⑧ JESSIE NO. 1
SE/SE SEC. 24
PER COGCC:
610' FSL
610' FEL
DRILLED &
ABANDONED



NOTES:

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



SCALE: 1" = 1000'

LEGEND

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



FIELD DATE: 12/18/12
PLOT DATE: 04/23/13
DRAWN BY: CJD
JOB NO.: NE12383
SHEET NO.: 2 of 20