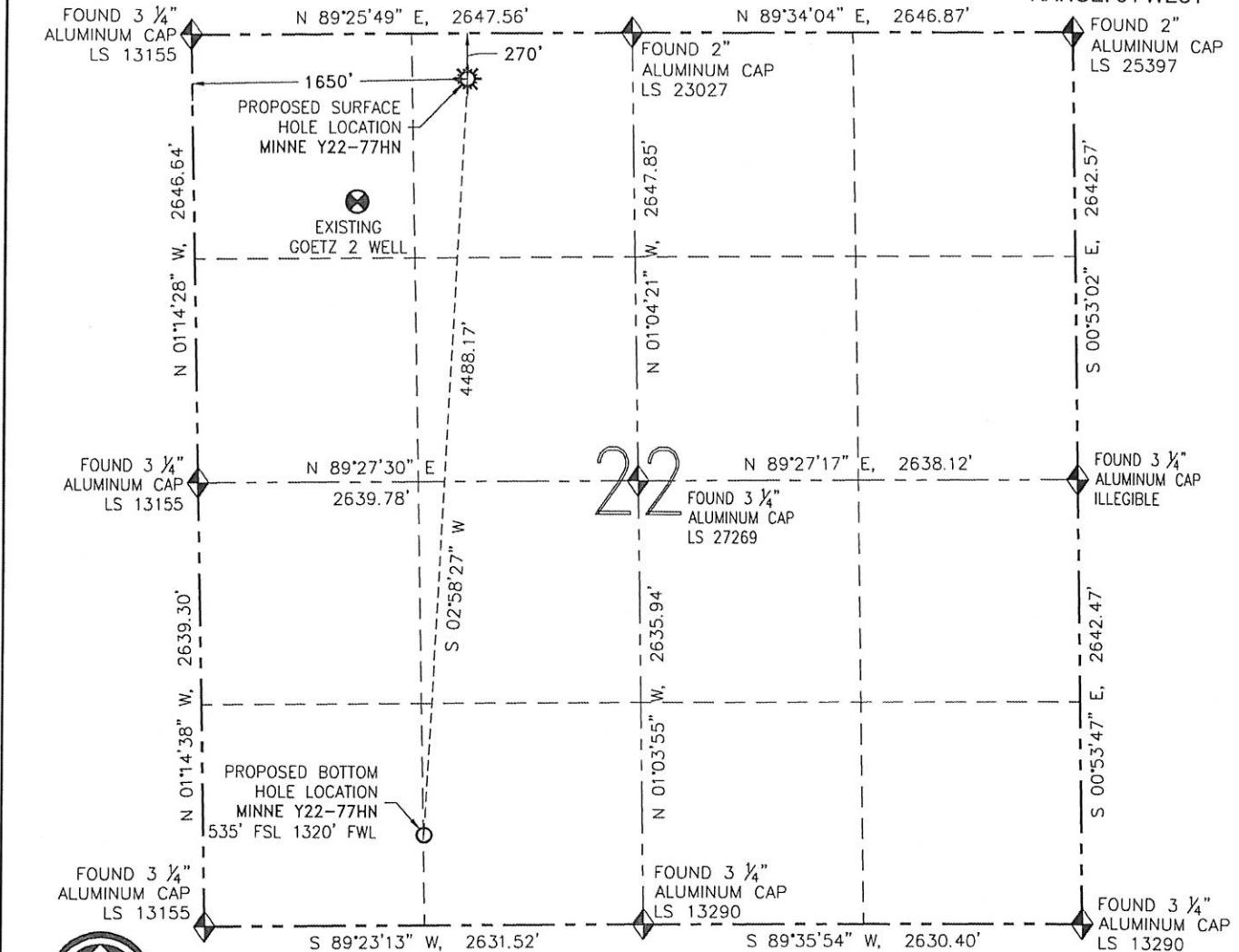


# WELL LOCATION CERTIFICATE

MINNE Y22-77HN

THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY

SECTION: 22  
TOWNSHIP: 2 NORTH  
RANGE: 64 WEST



0 1000'

SCALE: 1" = 1000'

## SURFACE HOLE LOCATION (NAD 83)

LATITUDE: N 40.13047  
LONGITUDE: W 104.54109  
ELEVATION: 5008  
PDOP: 1.8  
1/4-1/4: NE NW  
NEAREST PROPERTY LINE: 270' N

## BOTTOM HOLE LOCATION

LATITUDE: N 40.11818  
LONGITUDE: W 104.54210

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, THAT THE FIELD WORK WAS COMPLETED ON 10/02/14, 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.

IN ACCORDANCE WITH A REQUEST FROM MIKE RODINE-NOBLE ENERGY INC., R&R ENGINEERS-SURVEYORS, INC. HAS DETERMINED THE SURFACE HOLE LOCATION OF THE MINNE Y22-77HN WELL TO BE 270' FNL AND 1650' FWL AS MEASURED AT (90) DEGREES FROM THE SECTION LINES OF SECTION 22, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO. THE BOTTOM HOLE LOCATION, AS PROVIDED BY THE CLIENT, IS TO BE 535' FSL AND 1320' FWL OF SECTION 22, TOWNSHIP 2 NORTH RANGE 64 WEST.

## 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: GOETZ 2 975' SW.
4. SEE LOCATION DRAWING FOR ALL IMPROVEMENTS WITHIN 400' OF THE OIL/GAS LOCATION.
5. SURFACE USE: CROPLAND.

## LEGEND

- PROPOSED WELL
- EXISTING WELL
- FOUND MONUMENT



FIELD DATE: 10/02/14

PLOT DATE: 10/22/14

DRAWN BY: CJD

JOB NO.: NE12322

SHEET NO.: 1 of 11

## 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.).



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

# SITE SKETCH

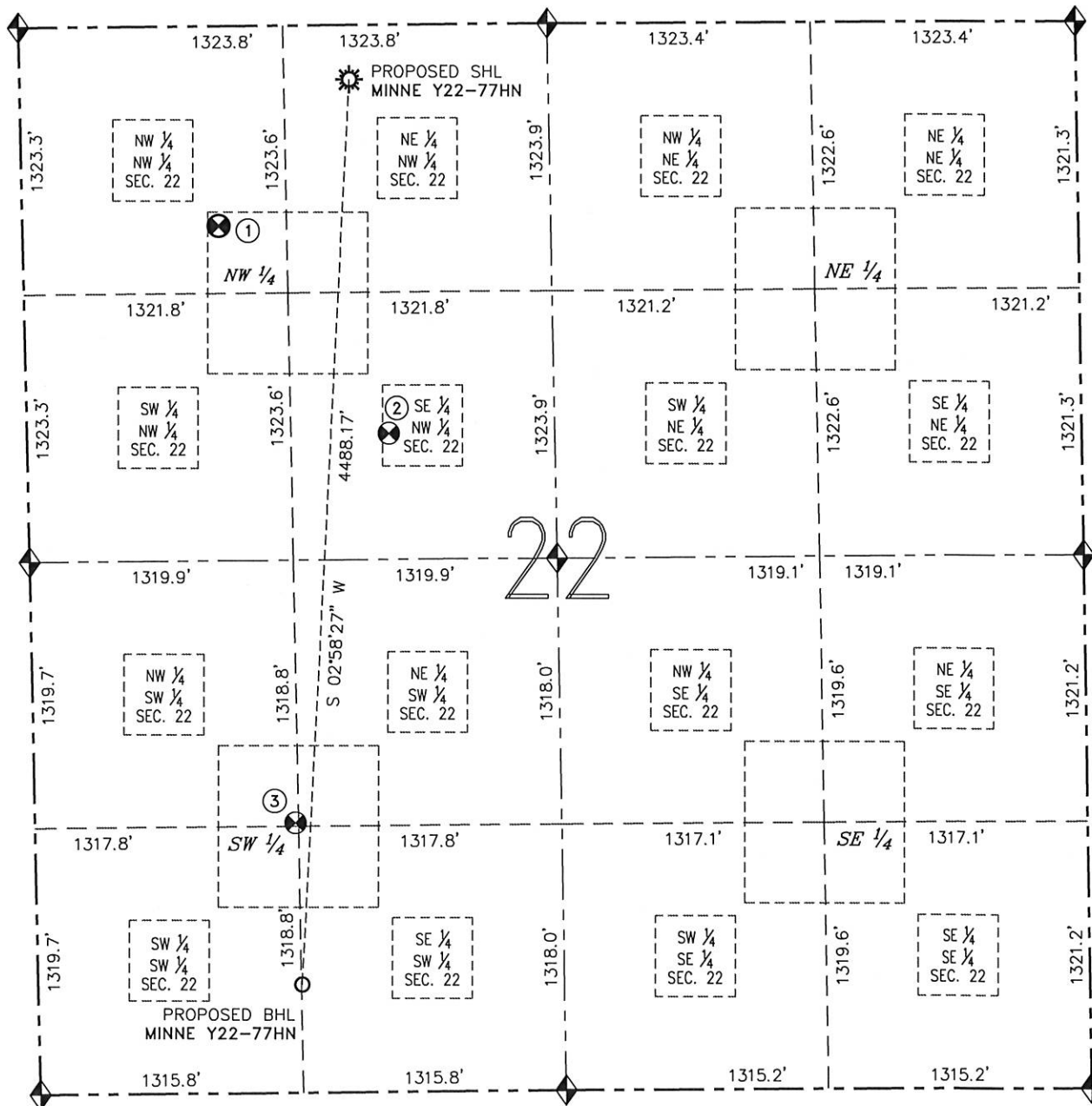
MINNE Y22-77HN

THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY

SECTION: 22

TOWNSHIP: 2 NORTH

RANGE: 64 WEST



① GOETZ 2  
NW/NW SEC 22  
990' FNL  
983' FWL  
EL=4986'  
N 40.12850°  
W 104.54345°  
PDOP 1.9

② GOETZ Y22-06  
SE/NW SEC 22  
2023' FNL  
1811' FWL  
EL=4999'  
N 40.12566°  
W 104.54045°  
PDOP 2.0

③ ACCO-TERRA-BODECKER 40  
NW/SW SEC 22  
1336' FSL  
1302' FWL  
EL=4996'  
N 40.12038°  
W 104.54219°  
PDOP 1.7

## NOTES:

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



FIELD DATE: 10/02/14  
PLOT DATE: 10/22/14  
DRAWN BY: CJD  
JOB NO.: NE12322  
SHEET NO.: 2 of 11



SCALE: 1" = 800'

## LEGEND

- ☀ PROPOSED WELL
- EXISTING WELL
- BOTTOM HOLE
- ◆ FOUND MONUMENT

# MULTI-WELL PAD DIRECTIONAL LAYOUT

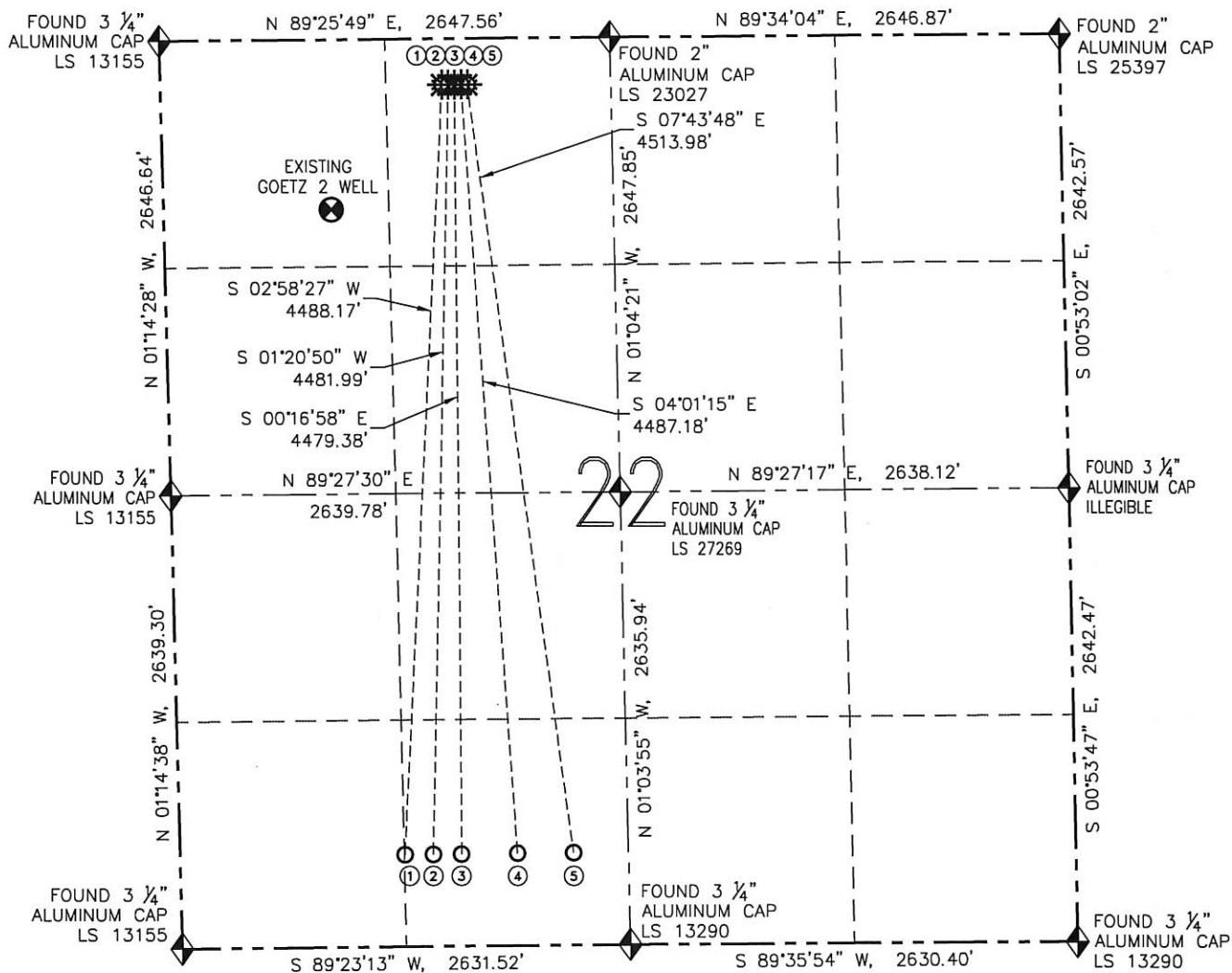
MINNE Y22-77HN, 77HC, 77-1HN, 76HN & 76-1HN

THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY

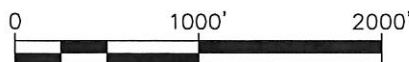
SECTION: 22

TOWNSHIP: 2 NORTH

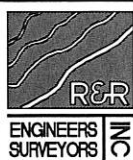
RANGE: 64 WEST



NO.	WELL NAME	FOOTAGES		LATITUDE	LONGITUDE	¼-¼
1	MINNE Y22-77HN	BHL: 535' FSL	BHL: 1320' FWL	BHL: N 40.11818'	BHL: W 104.54210'	BHL: SE SW
2	MINNE Y22-77HC	BHL: 535' FSL	BHL: 1485' FWL	BHL: N 40.11818'	BHL: W 104.54151'	BHL: SE SW
3	MINNE Y22-77-1HN	BHL: 535' FSL	BHL: 1650' FWL	BHL: N 40.11818'	BHL: W 104.54092'	BHL: SE SW
4	MINNE Y22-76HN	BHL: 535' FSL	BHL: 1980' FWL	BHL: N 40.11818'	BHL: W 104.53974'	BHL: SE SW
5	MINNE Y22-76-1HN	BHL: 535' FSL	BHL: 2310' FWL	BHL: N 40.11818'	BHL: W 104.53856'	BHL: SE SW



SCALE: 1" = 1000'



FIELD DATE: 10/02/14  
 PLOT DATE: 10/22/14  
 DRAWN BY: CJD  
 JOB NO.: NE12322  
 SHEET NO.: 8 of 11

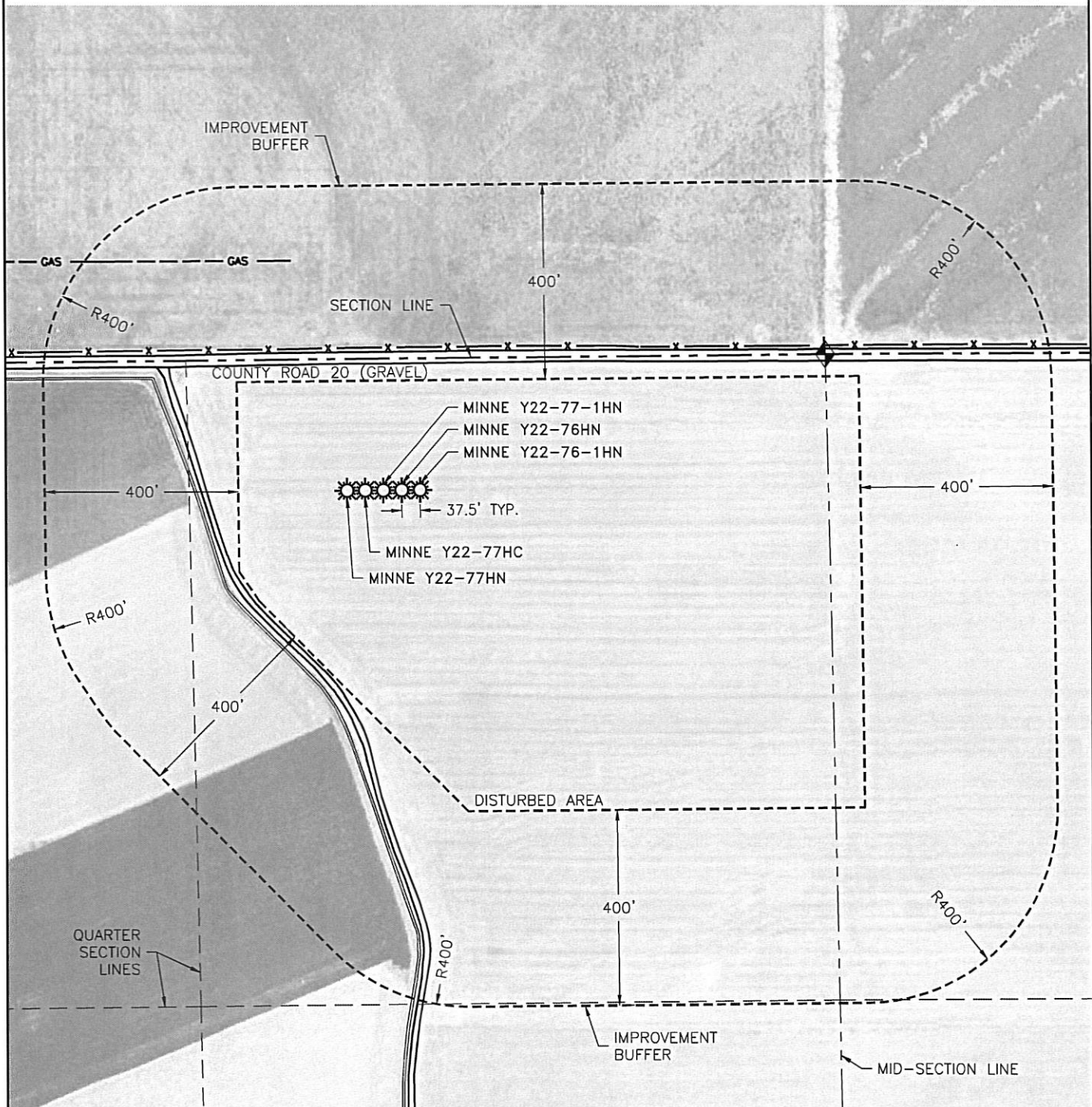
## LEGEND

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

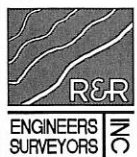
## MULTI-WELL PAD LOCATION DRAWING

MINNE Y22-77HN, 77HC, 77-1HN, 76HN & 76-1HN  
THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY

SECTION: 22  
TOWNSHIP: 2 NORTH  
RANGE: 64 WEST



SCALE: 1" = 300'



FIELD DATE: 10/02/14
PLOT DATE: 10/22/14
DRAWN BY: CJD
JOB NO.: NE12322
SHEET NO.: 9 of 11

### LEGEND

- PROPOSED WELL
- FOUND MONUMENT