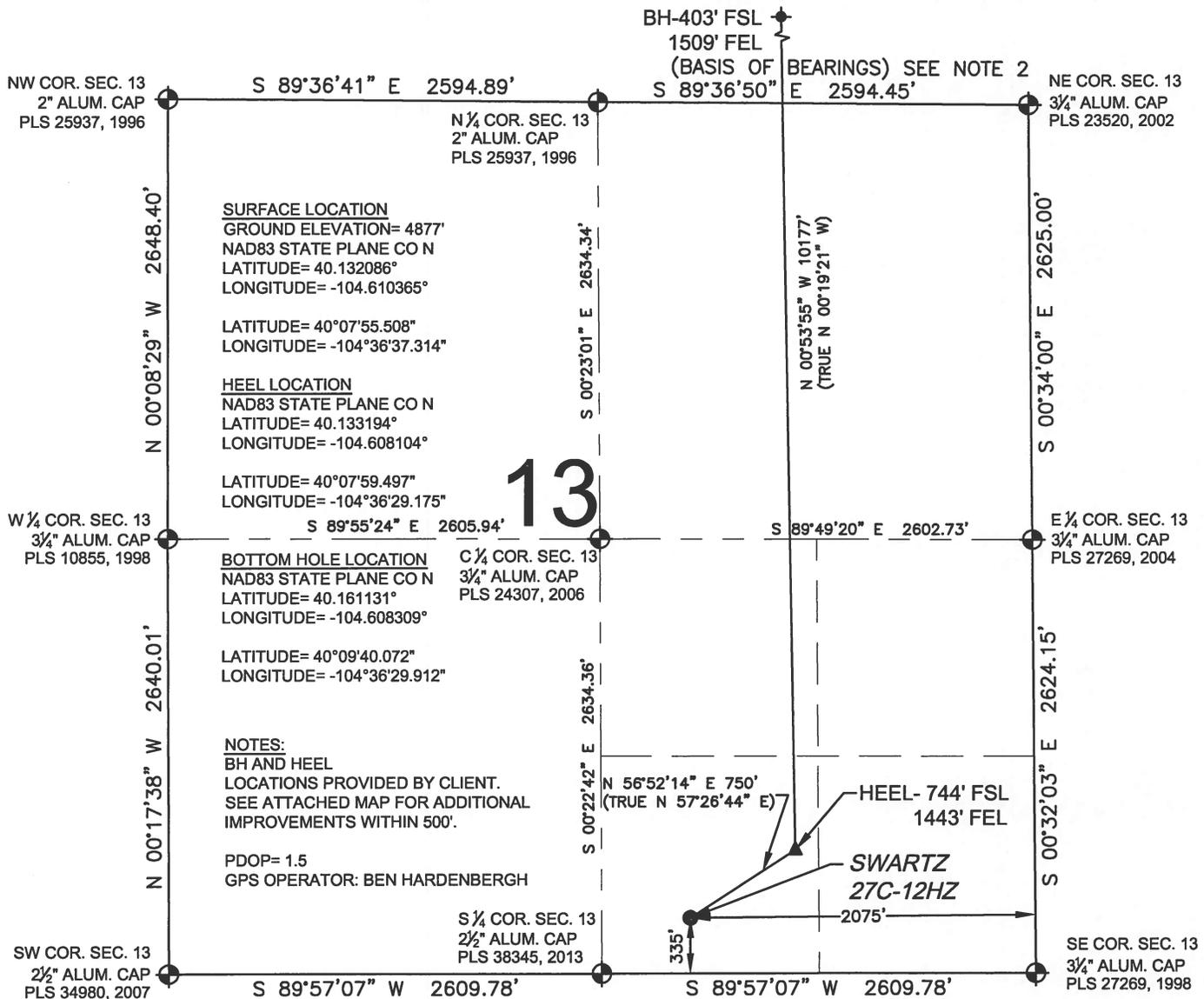


# WELL LOCATION CERTIFICATE: SWARTZ 27C-12HZ

SECTION 13, TOWNSHIP 2 NORTH, RANGE 65 WEST, 6TH P.M.

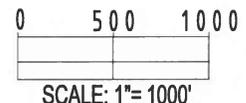


13

## LEGEND

- ⊕ = EXISTING MONUMENT
- ⊙ = PROPOSED WELL
- BH = BOTTOM HOLE
- ⚬ = BOTTOM HOLE
- ▲ = HEEL LOCATION
- = CALCULATED POSITION

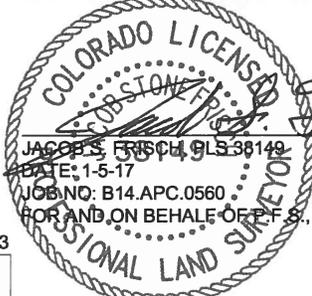
WELL **SWARTZ 27C-12HZ** TO BE LOCATED  
335' FSL AND 2075' FEL



## NOTES:

- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- BEARINGS ARE BASED ON THE ASSUMPTION THAT THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 13, BEARS S89°36'50"E BETWEEN THE MONUMENTS DESCRIBED HEREON.
- GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES. TO GET GROUND DISTANCES MULTIPLY THE SHOWN DISTANCE BY 1.000272228.
- ALL LINES SHOWN THAT ARE WITHOUT DIMENSION SHOULD BE CONSIDERED SCALED AND ONLY REPRESENT A GRAPHICAL DEPICTION OF THE APPROXIMATE LOCATION OF SAID LINE.
- CERTIFIED ON AUGUST 4, 2015 FOR WELLS STAKED ON JANUARY 5, 2015. THIRD REVISION DECEMBER 30, 2015 FOR HEEL AND BHL CHANGES.

I, JACOB S. FRISCH, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO **KERR-MCGEE OIL & GAS ONSHORE LP**, THAT THE SURVEY AND WELL LOCATION CERTIFICATE SHOWN HEREON WERE DONE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE PROPOSED LOCATION OF THE WELL. THIS CERTIFICATE DOES NOT REPRESENT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AS DEFINED BY C.R.S. 38-51-102 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.



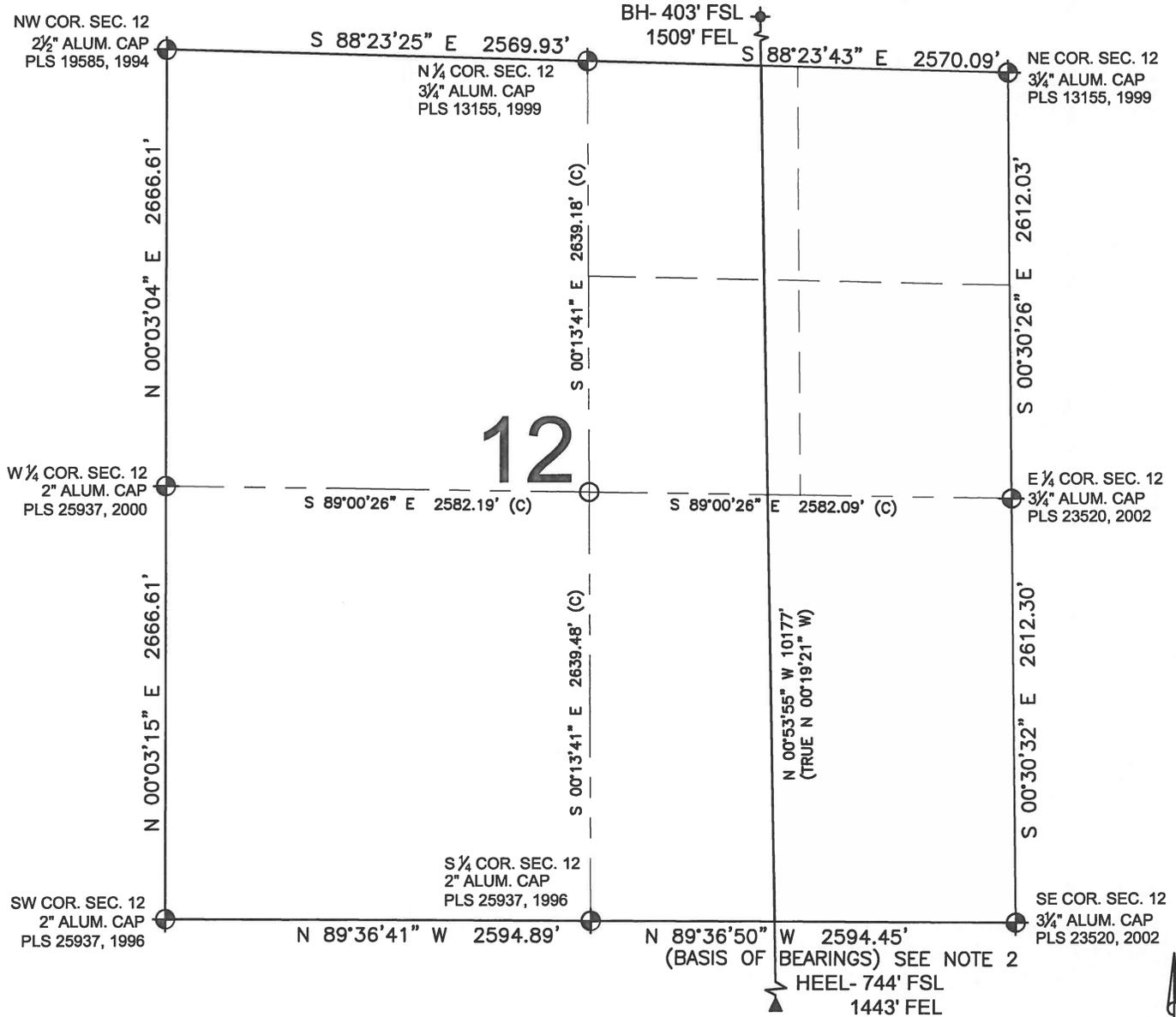
NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION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

SHEET 1 OF 3

PREPARED BY: <b>PFS</b> Petroleum Field Services, LLC 7535 Hilltop Circle Denver, CO 80221	FIELD DATE: 01-05-15	SURFACE LOCATION: SW 1/4 SE 1/4, SEC. 13, T2N, R65W, 6TH P.M.
	DRAWING DATE: 12-12-16	WELD COUNTY, COLORADO
	BY: BMO	CHECKED: CSG

# WELL LOCATION CERTIFICATE: SWARTZ 27C-12HZ

SECTION 12, TOWNSHIP 2 NORTH, RANGE 65 WEST, 6TH P.M.



**NOTES:**

1. THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
2. BEARINGS ARE BASED ON THE ASSUMPTION THAT THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 13, BEARS S89°36'50"E BETWEEN THE MONUMENTS DESCRIBED HEREON.
3. GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES. TO GET GROUND DISTANCES MULTIPLY THE SHOWN DISTANCE BY 1.000272228.
4. ALL LINES SHOWN THAT ARE WITHOUT DIMENSION SHOULD BE CONSIDERED SCALED AND ONLY REPRESENT A GRAPHICAL DEPICTION OF THE APPROXIMATE LOCATION OF SAID LINE.
5. CERTIFIED ON AUGUST 4, 2015 FOR WELLS STAKED ON JANUARY 5, 2015. THIRD REVISION DECEMBER 30, 2015 FOR HEEL AND BHL CHANGES.

**LEGEND**

- ⊕ = EXISTING MONUMENT
- = PROPOSED WELL
- BH = BOTTOM HOLE
- (C) = CALCULATED
- ⬇ = BOTTOM HOLE
- ▲ = HEEL LOCATION
- = CALCULATED POSITION

0 500 1000

SCALE: 1"=1000'



SHEET 2 OF 3

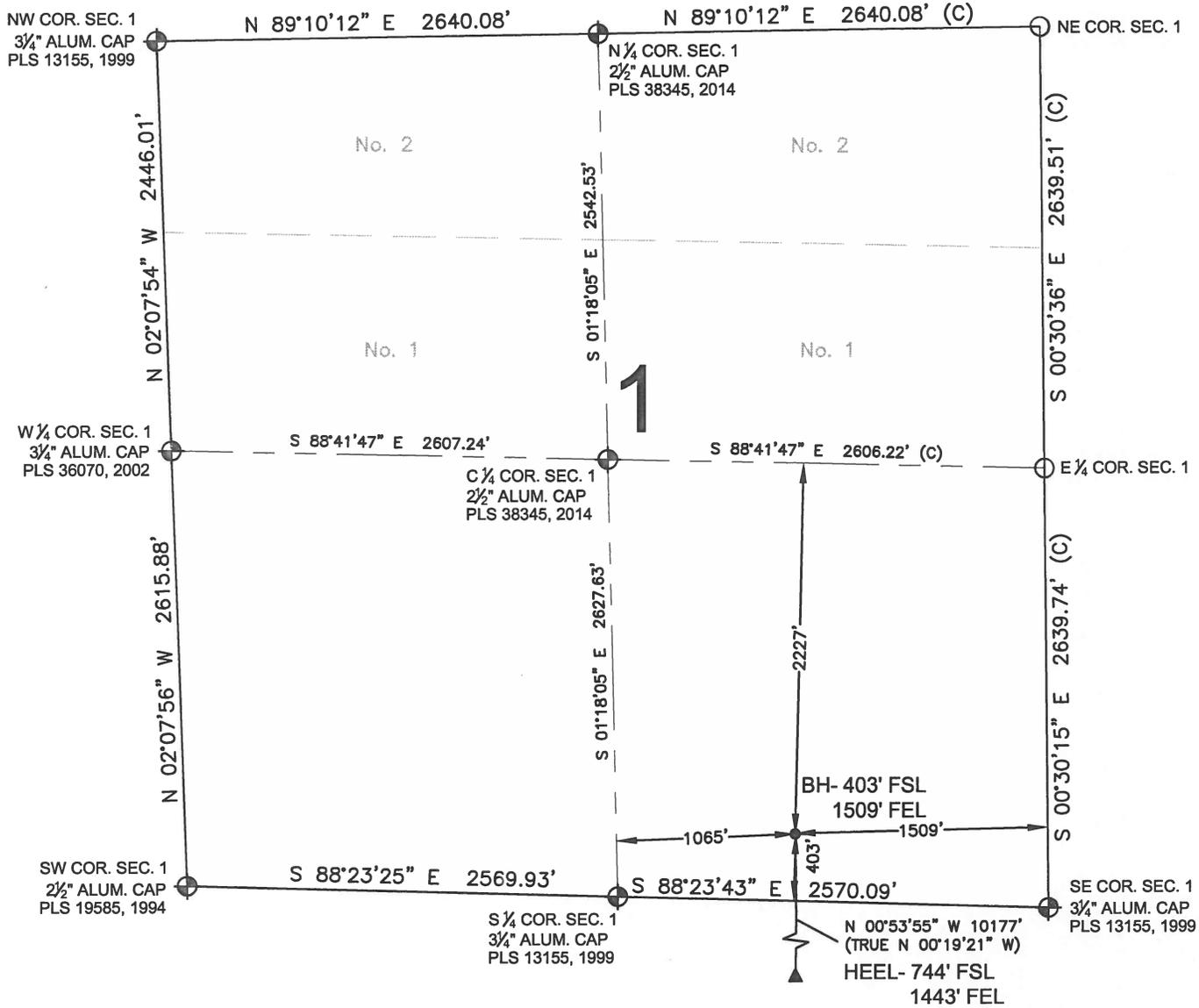
PREPARED BY: <b>PFS</b> Petrolium Field Services, LLC 7535 Hilltop Circle Denver, CO 80221	FIELD DATE: 01-05-15 DRAWING DATE: 12-12-16 BY: BMO CHECKED: CSG	SURFACE LOCATION: SW 1/4 SE 1/4, SEC. 13, T2N, R65W, 6TH P.M. WELD COUNTY, COLORADO
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JACOB S. FRISCH, PLS 91338149  
 DATE: 1-5-17  
 UGS NO: B14.APC.0560  
 FOR AND ON BEHALF OF P.F.S., LLC

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 BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.

# WELL LOCATION CERTIFICATE: SWARTZ 27C-12HZ

SECTION 1, TOWNSHIP 2 NORTH, RANGE 65 WEST, 6TH P.M.

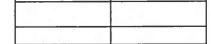


- NOTES:**
1. THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
  2. BEARINGS ARE BASED ON THE ASSUMPTION THAT THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 13, BEARS S89°36'50"E BETWEEN THE MONUMENTS DESCRIBED HEREON.
  3. GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES. TO GET GROUND DISTANCES MULTIPLY THE SHOWN DISTANCE BY 1.000272228.
  4. ALL LINES SHOWN THAT ARE WITHOUT DIMENSION SHOULD BE CONSIDERED SCALED AND ONLY REPRESENT A GRAPHICAL DEPICTION OF THE APPROXIMATE LOCATION OF SAID LINE.
  5. CERTIFIED AUGUST 4, 2015 FOR WELLS STAKED ON JANUARY 5, 2015. THIRD REVISION DECEMBER 30, 2016 FOR HEEL AND BHL CHANGES AND ADDITION OF SECTION 1. CORNERS ON THE EAST LINE OF SECTION 1 ARE CALCULATED DUE TO ROAD CONSTRUCTION AND WILL BE RESET BY THAT SURVEYOR AFTER CONSTRUCTION.

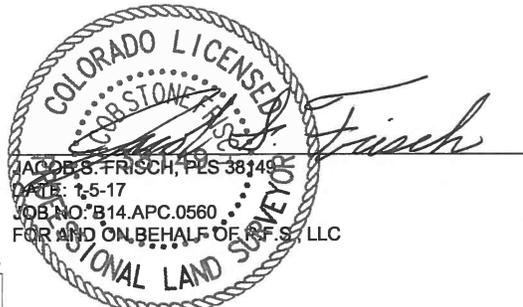
**LEGEND**

- ⊕ = EXISTING MONUMENT
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- BH = BOTTOM HOLE
- (C) = CALCULATED
- ◆ = BOTTOM HOLE
- ▲ = HEEL LOCATION
- = CALCULATED POSITION

0 500 1000



SCALE: 1"=1000'



SHEET 3 OF 3

PREPARED BY: <b>PFS</b> Petrochem Field Services, LLC 7535 Hilltop Circle Denver, CO 80221	FIELD DATE: 01-05-15 DRAWING DATE: 12-12-16 BY: BMO CHECKED: CSG	SURFACE LOCATION: SW 1/4 SE 1/4, SEC. 13, T2N, R65W, 6TH P.M. WELD COUNTY, COLORADO
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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 BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.