

THORNTON F-29-30HN WELL LOCATION CERTIFICATE

NW COR. SEC. 28
3/4" ALUM. CAP
PLS 7242, 1995

N89°09'29"E 2669.58'

N89°09'52"E 2669.55'

NE COR. SEC. 28
3/4" BRASS CAP
PLS 26595, 2000

N 1/4 COR. SEC. 28
3/4" BRASS CAP
PLS 26595, 2000

SURFACE LOCATION:
GROUND ELEVATION=4907'
NAD83
LATITUDE:40.548665°
LONGITUDE:104.791527°

LANDING POINT LOCATION:
NAD83
LATITUDE:40.549954°
LONGITUDE:104.794438°

BOTTOM HOLE LOCATION:
NAD83
LATITUDE:40.549382°
LONGITUDE:104.830286°

THORNTON F-29-30HN

28

NOTES:
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE-HAY MEADOW
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 500'

PDOP=1.8
GPS OPERATOR: ALEC SHULL

S 1/4 COR. SEC. 28
3/4" ALUM. CAP
PLS 7242, 1998

SE COR. SEC. 28
2 1/2" ALUM. CAP
PLS 23513, NO DATE

SW COR. SEC. 28
2 1/2" ALUM. CAP
PLS 28285, 2001

(BASIS OF BEARINGS (SEE NOTE 2))

N01°35'23"E 2678.42'

N01°35'03"E 2678.41'

N01°35'23"E 2678.42'

LP: 1150' FNL } SEC. 29
470' FWL }
BHL: 1150' FNL } SEC. 30
470' FWL }
N60°18'51"W }
935.28' }

355'

W 1/4 COR. SEC. 28
2 1/2" ALUM. CAP
PLS 16154, 1999

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2 1/2" ALUM. CAP
PLS 16154, 1999

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PLS 16154, 1999

W 1/4 COR. SEC. 28
2 1/2" ALUM. CAP
PLS 16154, 1999

LEGEND

- ⊙ = EXISTING MONUMENT ◆ = BOTTOM HOLE
- = CALCULATED POSITION ▲ = LANDING POINT
- = PROPOSED WELL LP = LANDING POINT
- ◆ = EXISTING WELL BHL = BOTTOM HOLE LOCATION

**WELL THORNTON F-29-30HN TO
BE LOCATED 1629' FNL & 355' FWL**

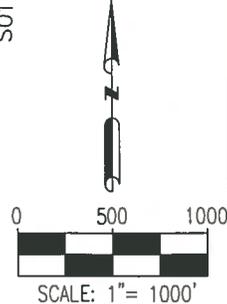
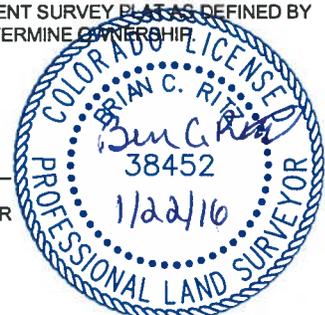
NOTES:

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 WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 28, BEARS N01°35'03"E BETWEEN THE MONUMENTS SHOWN HEREON.
3. GRID DISTANCES ARE SHOWN, AS GPS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES. TO GET GROUND DISTANCES MULTIPLY THE SHOWN DISTANCE BY 1.000264178.
4. ELEVATIONS SHOWN ARE NAVD 88, AS DERIVED BY GPS OBSERVATIONS.
5. FIELD VERIFICATION OF MONUMENTS COMPLETED WITHIN 1 YEAR OF SIGNATURE DATE.

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.

I, BRIAN C. RITZ, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO BAYSWATER EXPLORATION & PRODUCTION, LLC, 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.

BRIAN C. RITZ, PLS 38452
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF P.F.S., LLC



PREPARED BY: Petroleum Field Services, LLC 7535 Hilltop Circle Denver, CO 80221	FIELD DATE: 01-06-16	WELL NAME: THORNTON F-29-30HN	PREPARED FOR: BAYSWATER EXPLORATION AND PRODUCTION, LLC	
	DRAWING DATE: 01-18-16	SURFACE LOCATION: SW 1/4 NW 1/4 SEC. 28, T7N, R66W, 6TH P.M.		
	BY: KAD	CHECKED BY: TJN		WELD COUNTY, COLORADO

THORNTON F-29-30HN WELL LOCATION CERTIFICATE

N ¼ COR. SEC. 29
2½" ALUM. CAP
PLS 36073, 2013

NE COR. SEC. 29
¾" ALUM. CAP
PLS 7242, 1995

NW COR. SEC. 29
2½" ALUM. CAP
PLS 36073, 2013

N88°43'07"E 2725.80'

N88°43'08"E 2726.08'

BHL: 1150' FNL
470' FWL } SEC. 30

N00°54'34"E 2684.93'

S88°21'20"W 9964.34'

S01°15'06"W 2681.67'

LP: 1150' FNL
470' FEL

N60°18'51"W
935.28'

S01°35'23"W 2678.42'

C ¼ COR. SEC. 29
2½" ALUM. CAP
PLS 36073, 2013

29

N88°38'04"E 2710.43'

W ¼ COR. SEC. 29
¾" ALUM. CAP
PLS 16425, 2000

N88°38'09"E 2709.93'

E ¼ COR. SEC. 29
2½" ALUM. CAP
PLS 16154, 1999

N00°57'09"E
1335.87'

S ¼ COR. SEC. 29/30
2" ALUM. CAP
PLS 10855, 1992

S01°15'18"W 2675.13'

S01°35'03"W 2678.41'
(BASIS OF BEARINGS (SEE NOTE 2))

SW COR. SEC. 29
2½" ALUM. CAP
PLS 36073, 2013

N00°57'17"E
1336.02'

S88°41'30"W 2695.74'

S ¼ COR. SEC. 29
2½" ALUM. CAP
PLS 12374, 1996

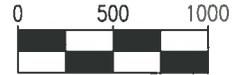
1347.43'

E ¼ COR. SEC. 29/32
¾" ALUM. CAP
PLS 22098, 2007

SE COR. SEC. 29
2½" ALUM. CAP
PLS 28285, 2001

S88°41'10"W

1347.48'



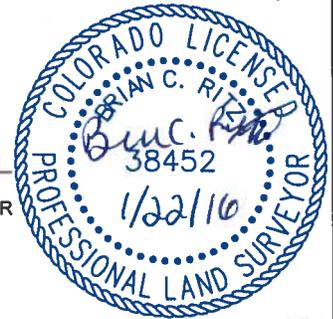
SCALE: 1" = 1000'



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SHEET 2 OF 3

PREPARED BY:



FIELD DATE:
01-06-16

DRAWING DATE:
01-18-16

BY:
KAD

CHECKED BY:
TJN

WELL NAME:

THORNTON F-29-30HN

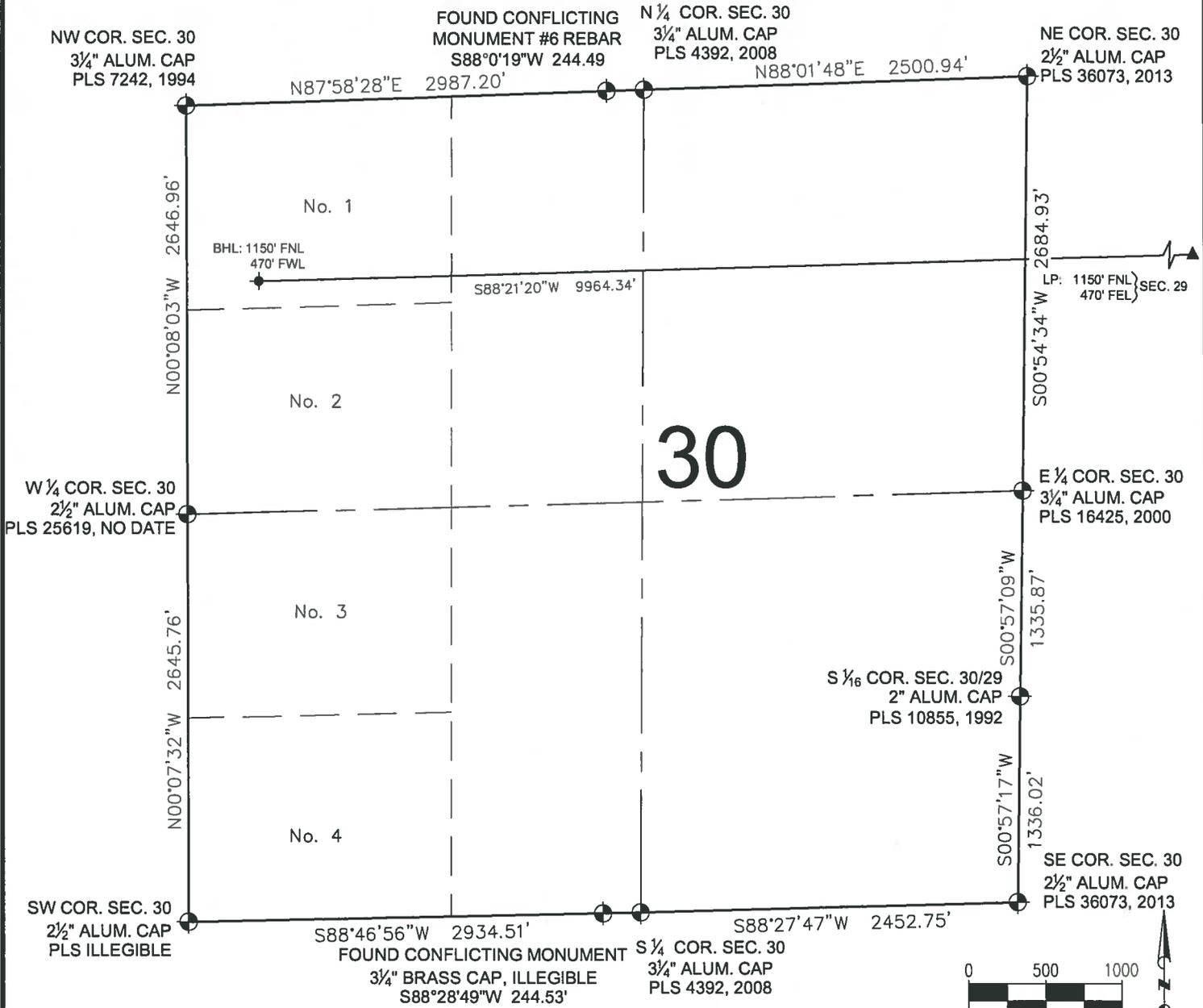
SURFACE LOCATION:

SW 1/4 NW 1/4 SEC. 28, T7N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

PREPARED FOR:



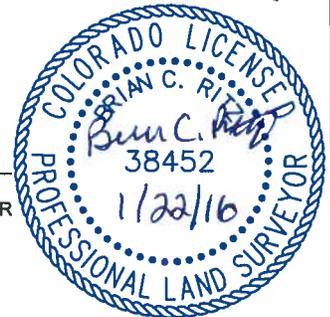
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SHEET 3 OF 3

PREPARED BY: PFS Petroleum Field Services, LLC 7535 Hilltop Circle Denver, CO 80221	FIELD DATE: 01-06-16	WELL NAME: THORNTON F-29-30HN	PREPARED FOR: BAYSWATER EXPLORATION AND PRODUCTION, LLC
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