

CARLSON L-15-16HN WELL LOCATION CERTIFICATE

E 1/6 COR. SEC. 10/15
3/4" ALUM. CAP
PLS 7242, 1997

NW COR. SEC. 15
3/4" ALUM. CAP
PLS 10855, 1994

NE COR. SEC. 15
3/4" ALUM. CAP
PLS 7242, 1997

N 89°07'40" E 2630.72' N 88°47'44" E 1319.72' N 88°43'43" E 1320.39' N 1/4 COR. SEC. 15
3/4" ALUM. CAP
PLS 22098, 2002

N 00°38'51" W 2653.22'

S 00°36'04" E 2649.06'

1054'
399'
1508.93'

S 00°29'42" E 2662.40'

CARLSON L-15-16HN

EX. CARLSON
HA 41-15

LP-2560' FNL
470' FEL

BHL-2560' FNL }
2337' FWL } SEC. 16

S 89°08'08" W 7756.66'

W 1/4 COR. SEC. 15
2 1/2" ALUM. CAP
PLS 23501, NO DATE

N 89°02'13" E 2628.59'

N 89°03'03" E 2635.06'

E 1/4 COR. SEC. 15
3/4" ALUM. CAP
PLS 10855, 1998

15

SURFACE LOCATION
GROUND ELEVATION= 4621'
NAD83
LATITUDE= 40.403698°
LONGITUDE= 104.641400°

LANDING POINT LOCATION
NAD83
LATITUDE= 40.399561°
LONGITUDE= 104.641660°

BOTTOM HOLE LOCATION
NAD83
LATITUDE= 40.399442°
LONGITUDE= 104.669510°

C 1/4 COR. SEC. 15
3/4" ALUM. CAP
PLS 7242, 1987

NOTES:
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE-IRRIGATED CROP
EXISTING WELL CARLSON HA 41-15 IS 189' SE
AT 1135' FNL & 227' FEL
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 500'.

PDOP= 1.4
GPS OPERATOR: BEN HARDENBERGH

SW COR. SEC. 15
2 1/2" ALUM. CAP
433.33' W.C.
PLS 38149, 2015

S 1/4 COR. SEC. 15
2 1/2" ALUM. CAP
15' W.C.
PLS 9644, 2004

SE COR. SEC. 15
3/4" ALUM. CAP
PLS 7242, 1998

SEE NOTE 2
(BASIS OF BEARINGS) SEE NOTE 2
N 00°37'41" W 2653.77'

S 02°05'07" E 2734.40'

S 01°02'55" E 2693.77'

N 89°15'39" W 2698.85'

S 88°09'42" W 2585.73'

LEGEND

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

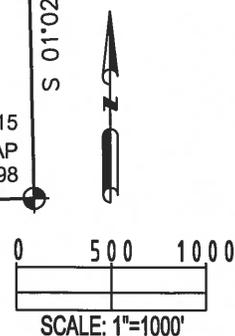
**WELL CARLSON L-15-16HN TO BE
LOCATED 1054' FNL AND 399' FEL**

- 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 15, BEARS N00°37'41"W 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 1.000258264.
 4. ELEVATIONS SHOWN ARE NAVD 88, AS DERIVED BY GPS OBSERVATIONS.
 5. FIELD VERIFICATION OF MONUMENTS COMPLETED ON FEBRUARY 11, 2015. WELL STAKING COMPLETED ON MARCH 20, 2015.

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, JACOB S. FRISCH, 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.

JACOB S. FRISCH, PLS 38149
DATE: 06-19-15
JOB NO: B14.BEP.011
FOR AND ON BEHALF OF BAYS WATER EXPLORATION & PRODUCTION, LLC



SHEET 1 OF 2

PREPARED BY: PFS Petroleum Field Services, LLC 7535 Hilltop Circle Denver, CO 80221	FIELD DATE: 03-20-15	WELL NAME: CARLSON L-15-16HN	PREPARED FOR: BAYSWATER EXPLORATION AND PRODUCTION, LLC	
	DRAWING DATE: 06-18-15	SURFACE LOCATION: NE 1/4 NE 1/4, SEC. 15, T5N, R65W, 6TH P.M.		
	BY: CSG	CHECKED BY: KAD		WELD COUNTY, COLORADO

CARLSON L-15-16HN WELL LOCATION CERTIFICATE

E 1/16 COR. SEC. 9/16
2 1/2" ALUM. CAP
PLS 28285, 2001

NE COR. SEC. 16
3 1/4" ALUM. CAP
PLS 10855, 1994

NW COR. SEC. 16
3 1/4" ALUM. CAP
PLS 19617, 1986

N 89°23'39" E 2652.54'

N 89°24'53" E 1330.30'

N 89°24'04" E 1330.38'

N 1/4 COR. SEC. 16
2 1/2" ALUM. CAP
PLS 28285, 2002

N 00°57'28" W 2652.08'

S 00°49'28" E 2657.78'

S 00°38'51" E 2653.22'

W 1/4 COR. SEC. 16
3 1/4" ALUM. CAP
PLS 19617, 1986

BHL- 2560' FNL
2337' FWL

S 89°08'08" W 7756.66'

LP-2560' FNL } SEC. 15
470' FEL }

N 89°31'06" E 2646.39'

N 89°18'35" E 2652.47'

16

C 1/4 COR. SEC. 16
3 1/4" ALUM. CAP
PLS 22098, 2000

E 1/4 COR. SEC. 16
2 1/2" ALUM. CAP
PLS 23501, NO DATE

N 00°56'45" W 2673.76'

S 00°51'34" E 2659.06'

S 00°37'41" E 2653.77'

SW COR. SEC. 16
3 1/4" ALUM. CAP
PLS 34990, 2008

S 89°12'01" W 2642.31'

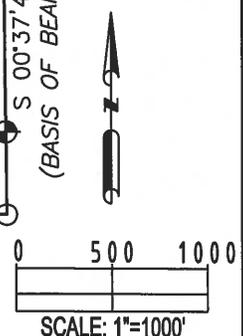
S 89°12'37" W 1321.03'

S 89°10'48" W 1320.71'

S 1/4 COR. SEC. 16
2 1/2" ALUM. CAP
PLS 38149, 2015

E 1/16 COR. SEC. 16/21
3 1/4" ALUM. CAP
PLS 4392, 1999

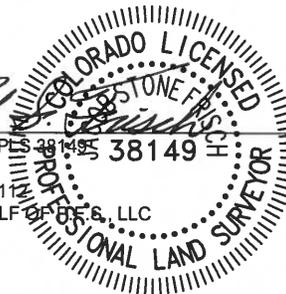
SE COR. SEC. 16
2 1/2" ALUM. CAP
433.33' W.C.
PLS 38149, 2015



LEGEND

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

JACOB S. FRISCH, PLS 38149
DATE: 06-19-15
JOB NO: B14.BEP.01
FOR AND ON BEHALF OF PFS, LLC



SHEET 2 OF 2

PREPARED BY: 	FIELD DATE: 03-20-15 DRAWING DATE: 06-18-15 BY: CSG	WELL NAME: CARLSON L-15-16HN SURFACE LOCATION: NE 1/4 NE 1/4, SEC. 15, T5N, R65W, 6TH P.M. WELD COUNTY, COLORADO CHECKED BY: KAD	PREPARED FOR: 
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