

CASTOR 8-59 19-24-16 WELL LOCATION CERTIFICATE

NW COR. SEC. 19
2½" ALUM. CAP
RLS 26294, 2008

NE COR. SEC. 19
2½" ALUM. CAP
RLS 26964, 2007

N ¼ COR. SEC. 19
2½" ALUM. CAP
PLS 28285, 2012

BASIS OF BEARINGS
(SEE NOTE 2)
N01°09'43"E 2652.14'

NOTES:
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE-RANGELAND
SEE LOCATION DRAWING FOR ADDITIONAL
IMPROVEMENTS WITHIN 500'

SURFACE LOCATION:
GROUND ELEVATION=4861'
NAD83
LATITUDE 40.644408° N
LONGITUDE: 104.011993° W

PDOP=1.7
GPS OPERATOR: MICHAEL HERNANDEZ

LANDING POINT LOCATION:
NAD83
LATITUDE 40.642261° N
LONGITUDE: 104.012716° W

19

BOTTOM HOLE LOCATION:
NAD83
LATITUDE: 40.642470° N
LONGITUDE: 104.038357° W

W ¼ COR. SEC. 19
2½" ALUM. CAP
CO 17492, 2011

S00°30'25"W 2649.99'

E ¼ COR. SEC. 19
2½" ALUM. CAP
RLS 26294, 2007

N01°09'44"E 2652.12'

CASTOR 8-59 19-24-16

BHL: 627' FSL
2340' FEL } SEC. 24

S14°20'12"W 807.85'

N89°25'39"W 7117.94'

LP: 635' FSL
600' FEL

S00°44'01"W 2666.35'

SW COR. SEC. 19
2½" ALUM. CAP
R.M. 100' NW, NE
CO 17492, 2011

N88°53'26"W 2744.62'

S ¼ COR. SEC. 19
2½" ALUM. CAP
PLS 28285, 2012

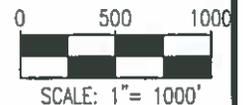
N88°53'27"W 2637.70'

SE COR. SEC. 19
3¼" ALUM. CAP
PLS 10740, 1990

LEGEND

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

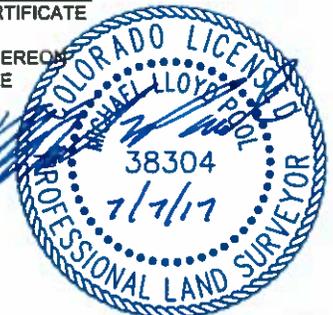
**WELL CASTOR 8-59 19-24-16 TO BE
LOCATED 1421' FSL & 410' FEL**



- 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 NORTHWEST QUARTER OF SECTION 19, BEARS N01°09'43"E BETWEEN THE MONUMENTS SHOWN HEREON.
 3. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE GROUND VALUES AS GPS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES. THIS LOW DISTORTION PROJECTION (LDP) IS BASED ON THE NORTH AMERICAN DATUM OF 1983, U.S. SURVEY FOOT WITH A LATITUDE ORIGIN OF 40.655085°N, A CENTRAL MERIDIAN LONGITUDE OF 104.086861°W, AND A SCALE FACTOR ON THE CENTRAL MERIDIAN OF 1.000232 (EXACT). THE LDP BASIS OF BEARINGS IS GEODETIC NORTH.
 4. 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, MICHAEL L. POOL, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO **BISON OIL & GAS 2, 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.

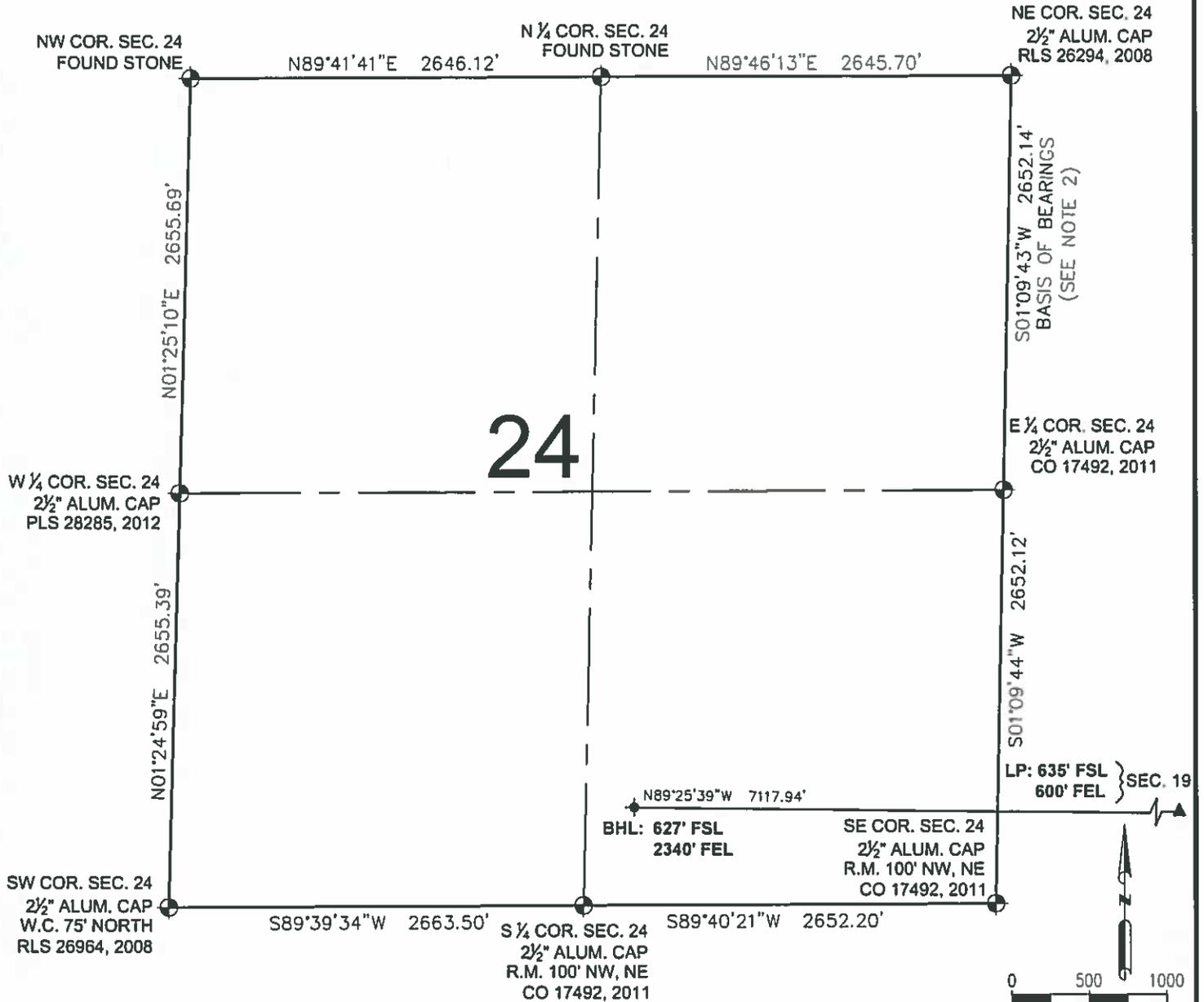


MICHAEL L. POOL, PLS 38304
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF P.F.S., LLC

SHEET 1 OF 2

	FIELD DATE: 06-28-17	WELL NAME: CASTOR 8-59 19-24-16	
	DRAWING DATE: 07-06-17	SURFACE LOCATION: NE 1/4 SE 1/4 SEC. 19, T8N, R59W, 6TH P.M. WELD COUNTY, COLORADO	
7535 HiTop Circle Denver, CO 80221 (303) 926-7128 www.ascentgeomatics.com	BY: MAG	CHECKED: CLP	PREPARED FOR

CASTOR 8-59 19-24-16 WELL LOCATION CERTIFICATE



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 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
 FOR AND ON BEHALF OF P.F.S., LLC



SHEET 2 OF 2



FIELD DATE 06-28-17	WELL NAME CASTOR 8-59 19-24-16
DRAWING DATE 07-06-17	SURFACE LOCATION: NE 1/4 SE 1/4 SEC. 19, T8N, R59W, 6TH P.M. WELD COUNTY, COLORADO
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