**CERTIFICATE OF SURVEYOR:**

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Randall K. French
38512
11/21/17
RANDALL K. FRENCH
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 38512

NOTICE:
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NOTES:

- ▲ INDICATES SECTION CORNER.
- INDICATES CALCULATED CORNER.
- ELEVATION BASED ON NAVD88 (GEOID 12B).
- BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM OF 1983 NORTH ZONE.
- ALL MEASURED DISTANCES ARE GRID.
- COMBINED SCALE FACTOR: .99972920 CALCULATED FROM THE S. 1/4 CORNER OF SECTION 8, T1N, R65W.
- OPERATOR: MARC RITT / PDOP = 1.6.
- SEE ADDENDUM TO WELL LOCATION CERTIFICATE FOR EXISTING IMPROVEMENTS WITHIN 500' OF THE WELL PAD.
- WELL FOOTAGES ARE MEASURED AT RIGHT ANGLES TO THE SECTION LINES.
- THE BOTTOM OF HOLE BEARS S00°08'09"W, 12742' FROM THE HEEL LOCATION.

WELL PAD - ENGLISH FARMS 8-10HZ

ENGLISH FARMS 8-10HZ
WELL LOCATION CERTIFICATE
315' FSL & 2326' FEL SWSE (SURFACE)
LOCATED IN SECTION 8
50' FNL & 2399' FWL NENW (HEEL)
LOCATED IN SECTION 17
2183' FNL & 2334' FWL SENW (BOTTOM)
LOCATED IN SECTION 29
T1N, R65W, 6TH P.M.
WELD COUNTY, COLORADO

**Kerr-McGee Oil &
Gas Onshore L.P.**
1099 18th Street
Denver, Colorado 80202

**CONSULTING, LLC**

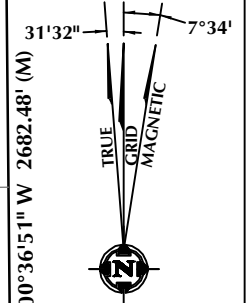
SHERIDAN OFFICE
1095 Saberton Avenue
Sheridan, Wyoming 82801
Phone 307-674-0609

LOVELAND OFFICE
1635 Foxtrail Drive, Suite 204
Loveland, Colorado 80538
Phone 970-776-4331

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| DRAFTED BY: | LMO | CHECKED BY: | RKF | SHEET NO: |
| DATE DRAFTED: | 11/21/17 | DATE SURVEYED: | 7/24/17 | 1 |
| REVISED: | | FILE NAME: | 17-119 | 1 OF 3 |

T1N, R65WN. 1/4 COR.
SEC. 20, T1N, R65W
FOUND 2" ALUM. CAP
L.S. NO. 25937MATCH LINE
SEE SHEET 1NE. COR.
SEC. 20, T1N, R65W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 19585

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 4945.1'
LATITUDE= 40.059617°
LONGITUDE= -104.686797°
LATITUDE= 40°03'34.621"
LONGITUDE= -104°41'12.469"
HEEL LOCATION: NAD 83
LATITUDE= 40.058617°
LONGITUDE= -104.688473°
LATITUDE= 40°03'31.022"
LONGITUDE= -104°41'18.502"
BOTTOM HOLE LOCATION: NAD 83
LATITUDE= 40.023641°
LONGITUDE= -104.688997°
LATITUDE= 40°01'25.108"
LONGITUDE= -104°41'20.389"

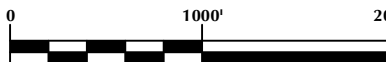
**20**CENTER 1/4 COR.
SEC. 20, T1N, R65W
FOUND 2" ALUM. CAP
L.S. NO. 25937CS. 1/16 COR.
SEC. 20, T1N, R65W
FOUND 2" ALUM. CAP
P.L.S. NO. 23519S. 1/4 COR.
SEC. 20, T1N, R65W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 30462MATCH LINE
SEE SHEET 3NW. COR.
SEC. 20, T1N, R65W
FOUND 2" ALUM. CAP
L.S. NO. 25937N. 1/16 COR.
SEC. 19 & SEC. 20
T1N, R65W
FOUND 2 1/2" ALUM. CAP
ILLEGIBLEW. 1/4 COR.
SEC. 20, T1N, R65W
FOUND 2" ALUM. CAP
L.S. NO. 25937SW. COR.
SEC. 20, T1N, R65W
FOUND 2" ALUM. CAP
ILLEGIBLESE. COR.
SEC. 20, T1N, R65W
FOUND 2" ALUM. CAP
ILLEGIBLEWELLBORE CONTINUES
INTO SECTION 29**CERTIFICATE OF SURVEYOR:**

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PROFESSIONAL LAND SURVEYOR
11/21/17
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NOTE:
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MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.



SCALE: 1" = 1000'

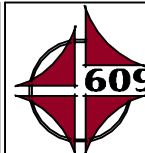
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WELL PAD - ENGLISH FARMS 8-10HZ

ENGLISH FARMS 8-10HZ
WELL LOCATION CERTIFICATE
315' FSL & 2326' FEL SWSE (SURFACE)
LOCATED IN SECTION 8
50' FNL & 2399' FWL NENW (HEEL)
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| REVISED: | | FILE NAME: | 17-119 | 2 OF 3 |

T1N, R65W

NW. COR.
SEC. 29, T1N, R65W
FOUND 2" ALUM. CAP
ILLEGIBLE

N. 1/4 COR.
SEC. 29, T1N, R65W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 30462

MATCH LINE
SEE SHEET 2

NE. COR.
SEC. 29, T1N, R65W
FOUND 2" ALUM. CAP
ILLEGIBLE

N 00°13'34" E 2653.16' (M)

S 89°39'07" W 2629.84' (M)

S 89°39'36" W 2628.63' (M)

31'32" 7°34"

N 00°22'57" W 2649.92' (M)



2183'

857'

469'

2334'

1015'

BOTTOM OF HOLE:
2183' FNL & 2334' FWL

N 00°01'17" W 2651.70' (C)

29

W. 1/4 COR.
SEC. 29, T1N, R65W
FOUND 2 1/2" ALUM. CAP
P.L.S. NO. 36060

S 89°37'20" W 2641.31' (C)

S 89°37'20" W 2645.33' (C)

E. 1/4 COR.
SEC. 29, T1N, R65W
FOUND 2" ALUM. CAP
L.S. NO. 25937

N 00°13'52" E 2653.27' (M)

N 00°01'17" W 2656.29' (C)

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 4945.1'
LATITUDE= 40.059617°
LONGITUDE= -104.686797°
LATITUDE= 40°03'34.621"
LONGITUDE= -104°41'12.469"
HEEL LOCATION: NAD 83
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LATITUDE= 40°01'25.108"
LONGITUDE= -104°41'20.389"

N 00°22'53" W 2649.93' (M)

SW. COR.
SEC. 29, T1N, R65W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 23027

S 89°41'23" W 1326.46' (M)

S 89°41'22" W 1326.52' (M)

S 89°29'10" W 1331.04' (M)

S 89°29'13" W 1330.99' (M)

W. 1/16 COR.
SEC. 29 & SEC. 32, T1N, R65W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 27269

S. 1/4 COR.
SEC. 29, T1N, R65W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 22098

E. 1/16 COR.
SECS. 29 & 32, T1N, R65W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 23520

SE. COR.
SEC. 29, T1N, R65W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 23520

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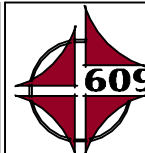
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| REVISED: | | FILE NAME: | 17-119 | 3 OF 3 |