



Kerr-McGee Oil & Gas Onshore LP

A subsidiary of Anadarko Petroleum Corporation

1099 18th Street
Denver, CO 80202
720-929-6000

September 23, 2016

Matt Lepore
Director, Colorado Oil and Gas Conservation Commission
Department of Natural Resources
The Chancery Building
1120 Lincoln Street, Suite 801
Denver, CO 80203

Re: **30 Day Certification Letter - 318A.e**
LEINWEBER FED 31N-8HZ (DOC # 401109856)
Township 1 North, Range 67 West
Section 11: NENE
Unit Acreage: 800 Acres
Unit Spacing: 1N67W-SEC 11: E2NE
1N67W-SEC 12: N2
1N66W-SEC 7: N2
1N66W-SEC 8: W2NW
Weld County, Colorado

Dear Director Lepore:

Kerr-McGee Oil and Gas Onshore LP ("KMG") hereby certifies that a thirty (30) day notice has been given by certified mail to all mineral owners in the proposed wellbore spacing unit. We have not received any objections to such well location, proposed spacing unit, or additional producing formation. KMG hereby respectfully requests approval of this boundary well.

If you have any questions or issues regarding this permit, please contact our office.

Sincerely,

Kerr-McGee Oil and Gas Onshore LP

A handwritten signature in blue ink, appearing to read 'Stephanie Madrid'.

Stephanie Madrid
Regulatory Analyst I

Enclosure

T1N, R67W

NW. COR.
SEC. 11, T1N, R67W
FOUND 2" ALUM. CAP
L.S. NO. 25937

S 89°49'51" W 2600.96' (M)

S 89°35'05" W 2628.10' (M)

NE. COR.
SEC. 11, T1N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 11372

N. 1/4 COR.
SEC. 11, T1N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 25937

LEINWEBER FED 31N-8HZ
SURFACE LOCATION

N. 1/16 COR.
SEC. 11 & SEC. 12
T1N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 36073

WELL BORE
CONTINUES INTO
SECTION 12

CENTER 1/4 COR.
SEC. 11, T1N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 25937

11

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 4956.3'
LATITUDE= 40.071501°
LONGITUDE= -104.849939°
LATITUDE= 40°04'17.403"
LONGITUDE= -104°50'59.780"
HEEL LOCATION: NAD 83
LATITUDE= 40.068868°
LONGITUDE= -104.847559°
LATITUDE= 40°04'07.926"
LONGITUDE= -104°50'51.211"
BOTTOM HOLE LOCATION: NAD 83
LATITUDE= 40.068458°
LONGITUDE= -104.809595°
LATITUDE= 40°04'06.449"
LONGITUDE= -104°48'34.542"

W. 1/4 COR.
SEC. 11, T1N, R67W
FOUND 2" ALUM. CAP
ILLEGIBLE

S 89°38'27" W
2613.83' (M)

S 89°34'23" W
2640.12' (M)

E. 1/4 COR.
SEC. 11, T1N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 11372

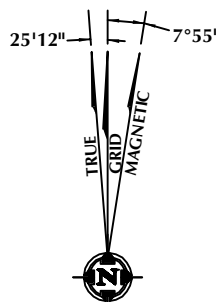
SW. COR.
SEC. 11, T1N, R67W
FOUND 2" ALUM. CAP
ILLEGIBLE

S 89°34'27" W 2626.96' (M)

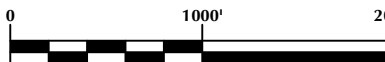
S 89°22'30" W 2638.88' (M)

SE. COR.
SEC. 11, T1N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 11372

MATCH LINE
SEE SHEET 2



NOTE:
MAGNETIC NORTH IS CURRENT AS OF 5/13/2016.
MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.



SCALE: 1" = 1000'

CERTIFICATE OF SURVEYOR:

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. 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.

Randall K. French
RANDALL K. FRENCH
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 18512

NOTE:
ACCORDING TO COLORADO STATE 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 THE DATE ON THE CERTIFICATION SHOWN HEREON.

WELL PAD - LEINWEBER FED 31N-8HZ

LEINWEBER FED 31N-8HZ
WELL LOCATION CERTIFICATE
458' FNL & 350' FEL NENE (SURFACE)
LOCATED IN SECTION 11
1416' FNL & 305' FWL SWNW (HEEL)
LOCATED IN SECTION 12
T1N, R67W, 6TH P.M.
1644' FNL & 249' FWL SWNW (BOTTOM)
LOCATED IN SECTION 8
T1N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

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



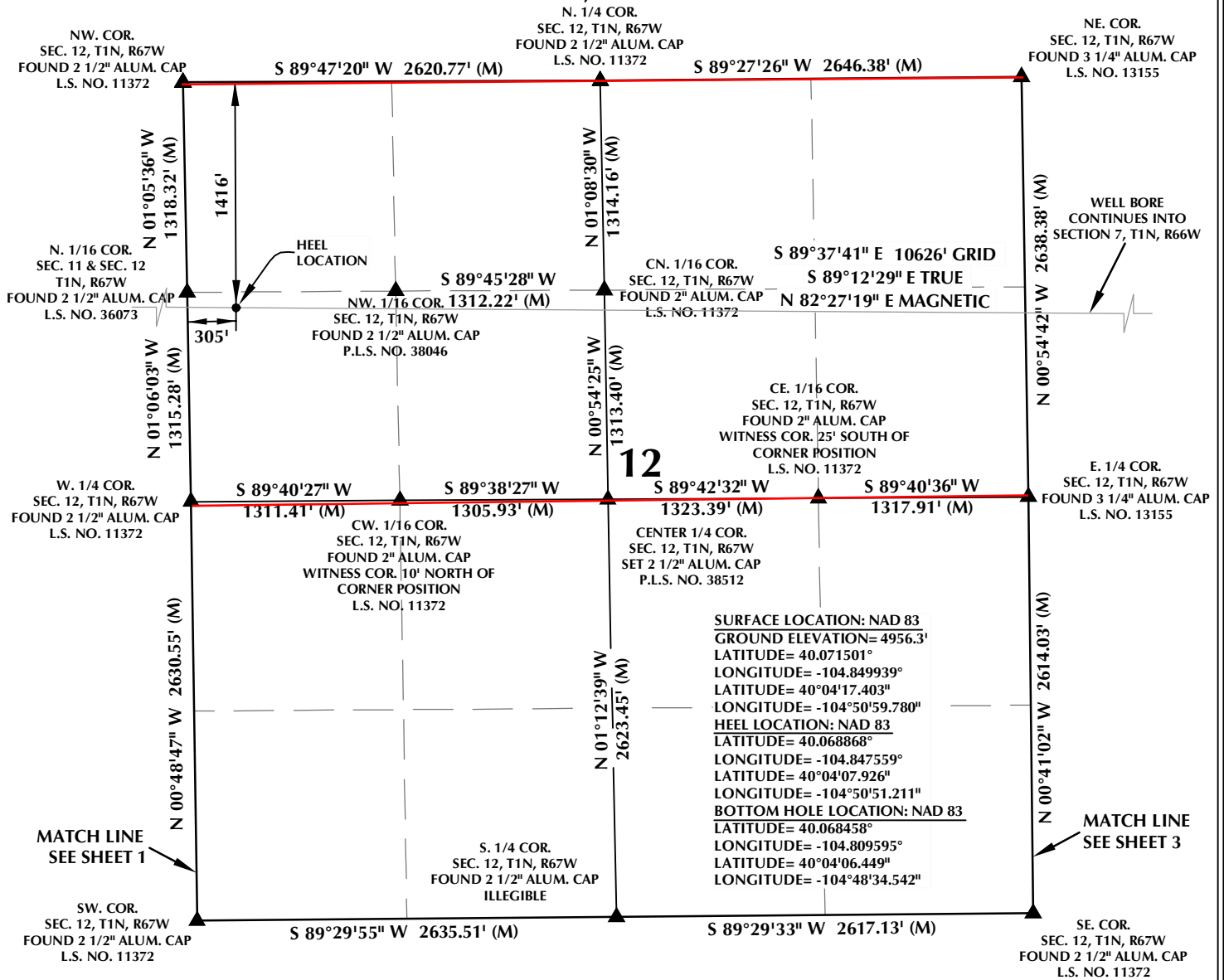
CONSULTING, LLC

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

DRAFTED BY:	LMO	CHECKED BY:	RKF	SHEET NO:
DATE DRAFTED:	6/27/16	DATE SURVEYED:	4/25/16	1
REVISED:		FILE NAME:	16-33	1 OF 4

T1N, R67W

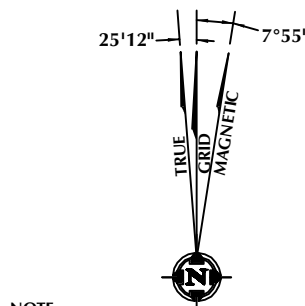


CERTIFICATE OF SURVEYOR:

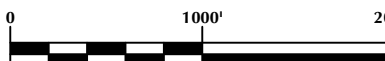
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATE DOES NOT REPRESENT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AS DEFINED BY C.R.S. 38-51-102 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

Randall K. French
RANDALL K. FRENCH
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER 38512
 6/27/16

NOTICE:
 ACCORDING TO COLORADO STATE 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 THE DATE ON THE CERTIFICATION SHOWN HEREON.



NOTE:
 MAGNETIC NORTH IS CURRENT AS OF 5/13/2016.
 MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.



SCALE: 1" = 1000'

NOTES:

- ▲ INDICATES SECTION CORNER
- INDICATES CALCULATED CORNER
- ELEVATION BASED ON NAVD88 (GEOID12B)
- BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM 1983 NORTH ZONE.
- ALL MEASURED DISTANCES ARE GRID.
COMBINED SCALE FACTOR: .99972422 CALCULATED FROM THE NW. CORNER OF SECTION 11, T1N, R67W
- OPERATOR: ROB WILSON / 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 S89°37'41"E, 10626' FROM THE HEEL LOCATION.

WELL PAD - LEINWEBER FED 31N-8HZ

LEINWEBER FED 31N-8HZ
 WELL LOCATION CERTIFICATE
 458' FNL & 350' FEL NENE (SURFACE)
 LOCATED IN SECTION 11
 1416' FNL & 305' FWL SWNW (HEEL)
 LOCATED IN SECTION 12
 T1N, R67W, 6TH P.M.
 1644' FNL & 249' FWL SWNW (BOTTOM)
 LOCATED IN SECTION 8
 T1N, R66W, 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

DRAFTED BY:	LMO	CHECKED BY:	RKF	SHEET NO:
DATE DRAFTED:	6/27/16	DATE SURVEYED:	4/25/16	2
REVISED:		FILE NAME:	16-33	2 OF 4

T1N, R66W

E. 1/16 COR.
SEC. 6 & SEC. 7, T1N, R66W
FOUND 2" ALUM. CAP
L.S. NO. 25937

NW. COR.
SEC. 7, T1N, R66W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 13155

S 87°42'42" W 2789.45' (M)

S 89°45'52" W
1318.81' (M)
N. 1/4 COR.
SEC. 7, T1N, R66W
SET 2 1/2" ALUM. CAP
P.L.S. NO. 38512

S 89°41'56" W
1320.11' (M)

NE. COR.
SEC. 7, T1N, R66W
FOUND 2" ALUM. CAP
L.S. NO. 30830

N 00°54'42" W 2638.38' (M)

NO. 2

NO. 1

N 00°42'53" W
2687.95' (M)

S 89°37'41" E 10626' GRID
S 89°12'29" E TRUE
N 82°27'19" E MAGNETIC

WELL BORE
CONTINUES INTO
SECTION 8

N 00°33'37" W 2639.50' (M)

CENTER 1/4 COR.
SEC. 7, T1N, R66W
FOUND 2" ALUM. CAP
L.S. NO. 25937

S 88°43'42" W
2779.47' (M)

S 88°40'40" W
2631.87' (M)

W. 1/4 COR.
SEC. 7, T1N, R66W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 13155

E. 1/4 COR.
SEC. 7, T1N, R66W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 30830

N 00°41'02" W 2614.03' (M)

NO. 2

NO. 1

N 00°30'31" W
2621.35' (M)

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 4956.3'
LATITUDE= 40.071501°
LONGITUDE= -104.849939°
LATITUDE= 40°04'17.403"
LONGITUDE= -104°50'59.780"
HEEL LOCATION: NAD 83
LATITUDE= 40.068868°
LONGITUDE= -104.847559°
LATITUDE= 40°04'07.926"
LONGITUDE= -104°50'51.211"
BOTTOM HOLE LOCATION: NAD 83
LATITUDE= 40.068458°
LONGITUDE= -104.809595°
LATITUDE= 40°04'06.449"
LONGITUDE= -104°48'34.542"

MATCH LINE
SEE SHEET 2

MATCH LINE
SEE SHEET 4

SW. COR.
SEC. 7, T1N, R66W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 11372

S 88°52'40" W 2771.39' (M)

S 89°04'50" W
1317.00' (M)

S 89°04'10" W
1317.17' (M)

SE. COR.
SEC. 7, T1N, R66W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 25942

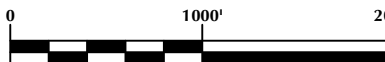
S. 1/4 COR.
SEC. 7, T1N, R66W
FOUND 2" ALUM. CAP
L.S. NO. 25937

E. 1/16 COR.
SEC. 7 & SEC. 18, T1N, R66W
FOUND 2" ALUM. CAP
L.S. NO. 25937

25'12" 7°55'



NOTE:
MAGNETIC NORTH IS CURRENT AS OF 5/13/2016.
MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.



SCALE: 1" = 1000'

CERTIFICATE OF SURVEYOR:

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. 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.

Randall K. French
PROFESSIONAL LAND SURVEYOR
6/27/16

RANDALL K. FRENCH
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 18512

NOTICE:
ACCORDING TO COLORADO STATE 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 THE DATE ON THE CERTIFICATION SHOWN HEREON.

NOTES:

- ▲ INDICATES SECTION CORNER
- INDICATES CALCULATED CORNER
- ELEVATION BASED ON NAVD88 (GEOID12B)
- BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM 1983 NORTH ZONE.
- ALL MEASURED DISTANCES ARE GRID.
COMBINED SCALE FACTOR: .99972422 CALCULATED FROM THE NW. CORNER OF SECTION 11, T1N, R67W
- OPERATOR: ROB WILSON / 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.
- NO. 1 & NO. 2 AS SHOWN HEREON ARE GOVERNMENT LOTS 1 & 2 OF THE ORIGINAL GLO SURVEY.
- THE BOTTOM OF HOLE BEARS S89°37'41"E, 10626' FROM THE HEEL LOCATION.

WELL PAD - LEINWEBER FED 31N-8HZ

LEINWEBER FED 31N-8HZ
WELL LOCATION CERTIFICATE
458' FNL & 350' FEL NENE (SURFACE)
LOCATED IN SECTION 11
1416' FNL & 305' FWL SWNW (HEEL)
LOCATED IN SECTION 12
T1N, R67W, 6TH P.M.
1644' FNL & 249' FWL SWNW (BOTTOM)
LOCATED IN SECTION 8
T1N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

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



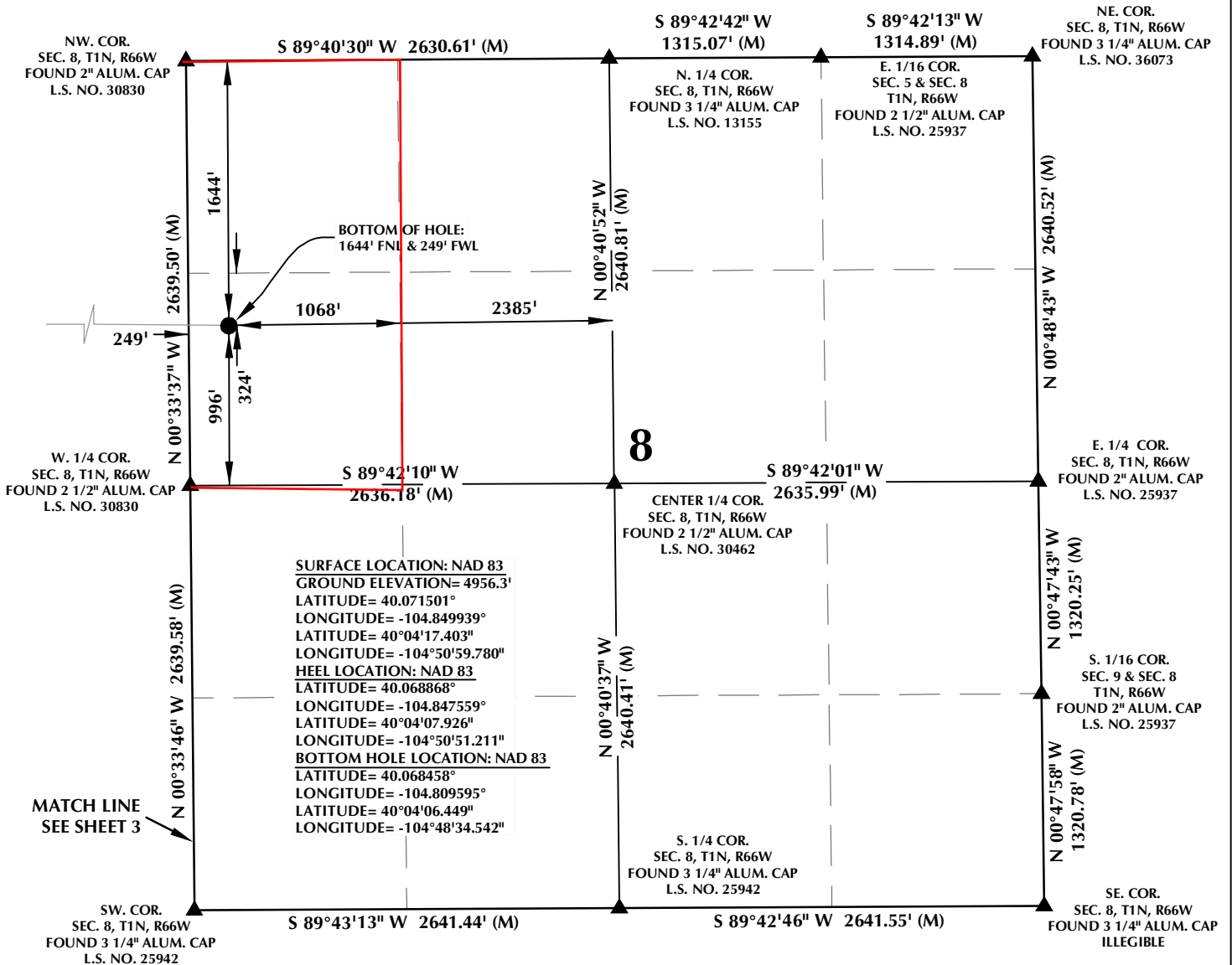
CONSULTING, LLC

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

DRAFTED BY:	LMO	CHECKED BY:	RKF	SHEET NO:
DATE DRAFTED:	6/27/16	DATE SURVEYED:	4/25/16	3
REVISED:		FILE NAME:	16-33	3 OF 4

T1N, R66W

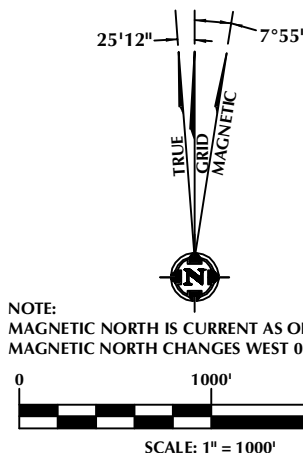


CERTIFICATE OF SURVEYOR:

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. 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.

Randall K. French
 RANDALL K. FRENCH
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER 18512

NOTE:
 ACCORDING TO COLORADO STATE 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 THE DATE ON THE CERTIFICATION SHOWN HEREON.



NOTES:

1. ▲ INDICATES SECTION CORNER
2. ● INDICATES CALCULATED CORNER
3. ELEVATION BASED ON NAVD88 (GEOID12B)
4. BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM 1983 NORTH ZONE.
5. ALL MEASURED DISTANCES ARE GRID. COMBINED SCALE FACTOR: .99972422 CALCULATED FROM THE NW. CORNER OF SECTION 11, T1N, R67W
6. OPERATOR: ROB WILSON / PDOP = 1.6
7. SEE ADDENDUM TO WELL LOCATION CERTIFICATE FOR EXISTING IMPROVEMENTS WITHIN 500' OF THE WELL PAD.
8. WELL FOOTAGES ARE MEASURED AT RIGHT ANGLES TO THE SECTION LINES.
9. THE BOTTOM OF HOLE BEARS S89°37'41"E, 10626' FROM THE HEEL LOCATION.

WELL PAD - LEINWEBER FED 31N-8HZ

LEINWEBER FED 31N-8HZ
 WELL LOCATION CERTIFICATE
 458' FNL & 350' FEL NENE (SURFACE)
 LOCATED IN SECTION 11
 1416' FNL & 305' FWL SWNW (HEEL)
 LOCATED IN SECTION 12
 T1N, R67W, 6TH P.M.
 1644' FNL & 249' FWL SWNW (BOTTOM)
 LOCATED IN SECTION 8
 T1N, R66W, 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

DRAFTED BY:	LMO	CHECKED BY:	RKF	SHEET NO:
DATE DRAFTED:	6/27/16	DATE SURVEYED:	4/25/16	4
REVISED:		FILE NAME:	16-33	4 OF 4