

T1N, R68W

N. 1/4 COR.
SEC. 11, T1N, R68W
FOUND 2 1/2" ALUM. CAP
P.L.S. NO. 38065

WELLBORE CONTINUES
INTO SECTION 2

NE. COR.
SEC. 11, T1N, R68W
FOUND 3 1/4" ALUM. CAP
ILLEGIBLE

MATCH LINE
SEE SHEET 2
NW. COR.
SEC. 11, T1N, R68W
FOUND 3 1/4" ALUM. CAP
P.L.S. NO. 8953

S 89°00'44" W 2638.89' (M)

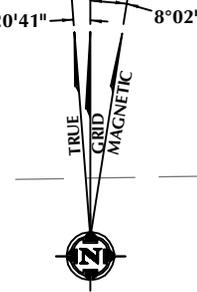
S 89°06'10" W 2634.69' (M)

N 00°23'49" W 2657.32' (M)

N 00°11'27" W
2662.37' (M)

N 00°02'21" E
1332.16' (M)

N. 1/16 COR.
SEC. 11 & SEC. 12
T1N, R68W
FOUND 2" ALUM. CAP
P.L.S. NO. 20673



N 00°27'15" W 8837' GRID
N 00°06'34" W TRUE
N 08°29'15" W MAGNETIC

COCHRAN

2N-2HZ

SURFACE LOCATION

N 00°00'11" E
1329.93' (M)

CW. 1/16 COR.
SEC. 11, T1N, R68W
FOUND 3 1/4" ALUM. CAP
P.L.S. NO. 25379

CENTER 1/4 COR.
SEC. 11, T1N, R68W
FOUND 2 1/2" BRASS CAP
L.S. NO. 25379

11

W. 1/4 COR.
SEC. 11, T1N, R68W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 22098

S 89°07'24" W
1314.66' (M)

S 89°06'57" W
1314.61' (M)

S 89°05'37" W
2624.84' (M)

E. 1/4 COR.
SEC. 11, T1N, R68W
FOUND 2 1/2" ALUM. CAP
P.L.S. NO. 23519

HEEL LOCATION

1570'

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 5053.7'
LATITUDE= 40.066495°
LONGITUDE= -104.966351°
LATITUDE= 40°03'59.381"
LONGITUDE= -104°57'58.863"
HEEL LOCATION: NAD 83
LATITUDE= 40.064415°
LONGITUDE= -104.966809°
LATITUDE= 40°03'51.894"
LONGITUDE= -104°58'00.511"
BOTTOM HOLE LOCATION: NAD 83
LATITUDE= 40.088673°
LONGITUDE= -104.966869°
LATITUDE= 40°05'19.223"
LONGITUDE= -104°58'00.728"

N 00°22'53" W 2657.58' (M)

N 00°10'48" W
2661.64' (M)

N 00°02'06" W 2665.90' (M)

SW. COR.
SEC. 11, T1N, R68W
FOUND 3 1/4" ALUM. CAP
P.L.S. NO. 8953

S 89°12'18" W
1309.84' (M)

S 89°12'26" W
1310.05' (M)

S 89°11'05" W 2618.05' (M)

SE. COR.
SEC. 11, T1N, R68W
FOUND 2 1/2" ALUM. CAP
P.L.S. NO. 24305

W. 1/16 COR. SEC. 11 & SEC. 14
T1N, R68W
FOUND 2 1/2" ALUM. CAP
P.L.S. NO. 27269

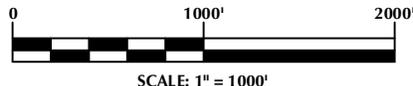
S. 1/4 COR.
SEC. 11, T1N, R68W
FOUND 2 1/2" BRASS CAP
ILLEGIBLE

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. 38-51-302 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

Randall K. French
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 38512
2/7/17

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 8/24/2016.
MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.

NOTES:

- ▲ INDICATES SECTION CORNER
- INDICATES CALCULATED CORNER
- ELEVATION BASED ON NAVD88 (GEOID12B)
- BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM OF 1983 NORTH ZONE.
- ALL MEASURED DISTANCES ARE GRID.
- COMBINED SCALE FACTOR: .99972351 CALCULATED FROM THE W. 1/4 CORNER OF SECTION 11, T1N, R68W
OPERATOR: COLE HALL / PDOP = 1.3
- 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 N00°27'15"W, 8837' FROM THE HEEL LOCATION.

WELL PAD - COCHRAN 2N-2HZ

COCHRAN 2N-2HZ
LOCATION CERTIFICATE
2414' FNL & 1446' FEL SWNE (SURFACE)
2155' FSL & 1570' FEL NWSE (HEEL)
LOCATED IN SECTION 11
T1N, R68W, 6TH P.M.
352' FSL & 1587' FEL SWSE (BOTTOM)
LOCATED IN SECTION 35
T2N, R68W, 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:	2/7/17	DATE SURVEYED:	8/23/16	1
REVISED:		FILE NAME:	16-56	1 OF 3

T1N, R68W

WELLBORE CONTINUES INTO SECTION 35, T2N, R68W

MATCH LINE SEE SHEET 3

NW. COR.
SEC. 2, T1N, R68W
FOUND 3 1/4" ALUM. CAP
P.L.S. NO. 23524

N. 1/4 COR.
SEC. 2, T1N, R68W
FOUND 2" ALUM. CAP W.C.
72.8' SOUTH OF
CORNER POSITION
P.L.S. NO. 23500

NE. COR.
SEC. 2, T1N, R68W
FOUND ALUM. CAP
ILLEGIBLE

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 5053.7'
LATITUDE= 40.066495°
LONGITUDE= -104.966351°
LATITUDE= 40°03'59.381"
LONGITUDE= -104°57'58.863"
HEEL LOCATION: NAD 83
LATITUDE= 40.064415°
LONGITUDE= -104.966809°
LATITUDE= 40°03'51.894"
LONGITUDE= -104°58'00.511"
BOTTOM HOLE LOCATION: NAD 83
LATITUDE= 40.088673°
LONGITUDE= -104.966869°
LATITUDE= 40°05'19.223"
LONGITUDE= -104°58'00.728"

CENTER 1/4 COR.
SEC. 2, T1N, R68W
SET 2 1/2" ALUM. CAP
P.L.S. NO. 38512

W. 1/4 COR.
SEC. 2, T1N, R68W
FOUND 3 1/2" BRASS CAP
L.S. NO. 16415

E. 1/4 COR.
SEC. 2, T1N, R68W
FOUND 3 1/4" BLM
BRASS CAP

CW. 1/16 COR.
SEC. 2, T1N, R68W
SET 2 1/2" ALUM. CAP
P.L.S. NO. 38512



N 00°27'15" W 8837' GRID
N 00°06'34" W TRUE
N 08°29'15" W MAGNETIC

SW. COR.
SEC. 2, T1N, R68W
FOUND 3 1/4" ALUM. CAP
P.L.S. NO. 8953

S. 1/4 COR.
SEC. 2, T1N, R68W
FOUND 2 1/2" ALUM. CAP
P.L.S. NO. 38065

SE. COR.
SEC. 2, T1N, R68W
FOUND 3 1/4" ALUM. CAP
ILLEGIBLE

NOTES:

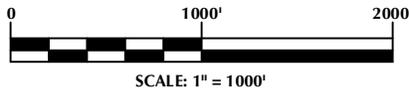
- ▲ INDICATES SECTION CORNER
- INDICATES CALCULATED CORNER
- ELEVATION BASED ON NAVD88 (GEOID12B)
- BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM OF 1983 NORTH ZONE.
- ALL MEASURED DISTANCES ARE GRID.
- COMBINED SCALE FACTOR: .99972351 CALCULATED FROM THE W. 1/4 CORNER OF SECTION 11, T1N, R68W
- OPERATOR: COLE HALL / PDOP = 1.3
- 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 N00°27'15"W, 8837' FROM THE HEEL LOCATION.
- NO. 1 & NO. 2 AS SHOWN HEREON ARE GOVERNMENT LOTS 1 & 2 PER THE ORIGINAL GLO SURVEY

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. 38-51-302 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

Randall K. French
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 38512
2/7/17

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 8/24/2016.
MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.

WELL PAD - COCHRAN 2N-2HZ

COCHRAN 2N-2HZ
LOCATION CERTIFICATE
2414' FNL & 1446' FEL SWNE (SURFACE)
2155' FSL & 1570' FEL NWSE (HEEL)
LOCATED IN SECTION 11
T1N, R68W, 6TH P.M.
352' FSL & 1587' FEL SWSE (BOTTOM)
LOCATED IN SECTION 35
T2N, R68W, 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

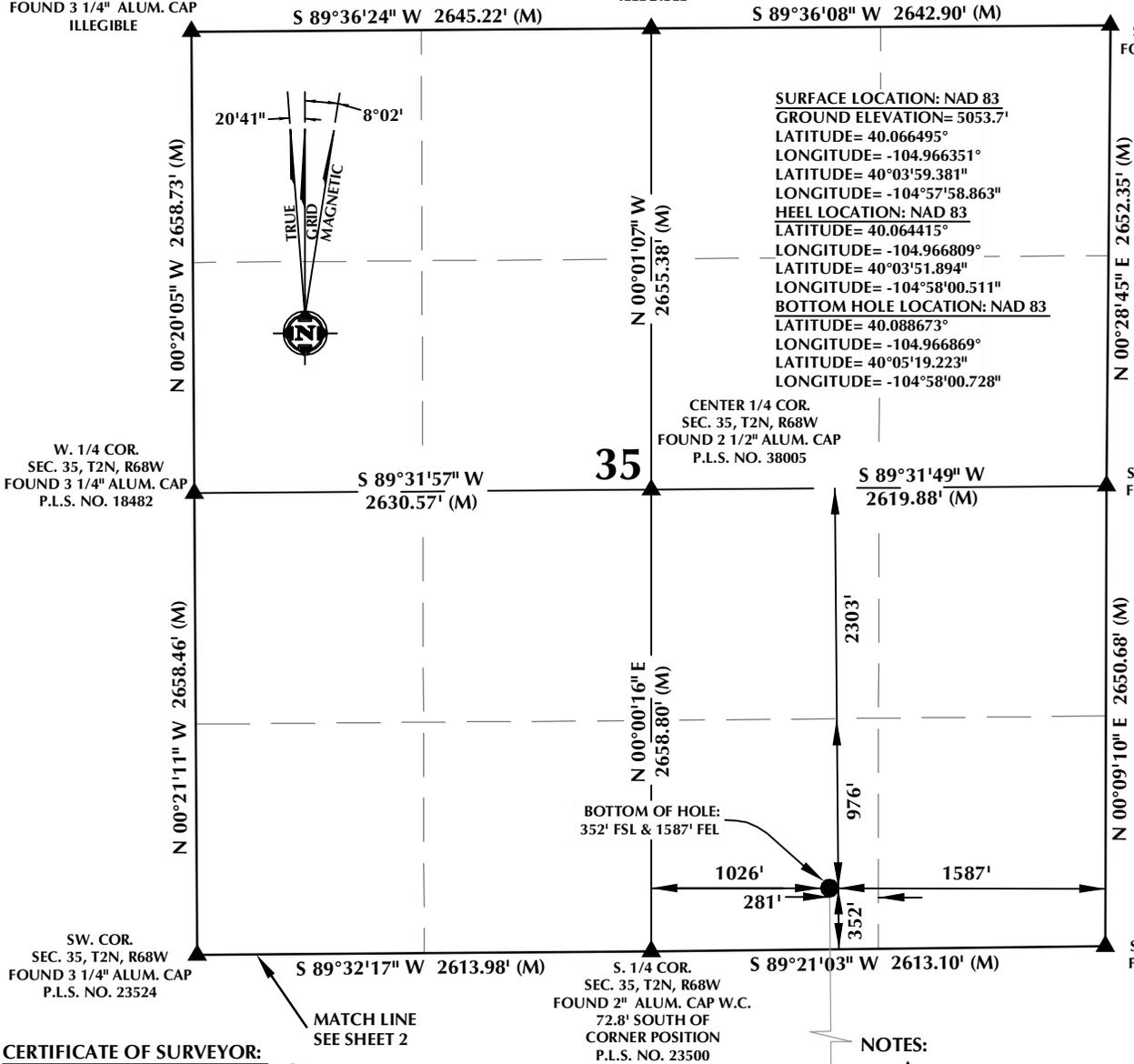
DRAFTED BY: LMO	CHECKED BY: RKF	SHEET NO: 2 2 OF 3
DATE DRAFTED: 2/7/17	DATE SURVEYED: 8/23/16	
REVISED:	FILE NAME: 16-56	

T2N, R68W

N. 1/4 COR.
SEC. 35, T2N, R68W
FOUND 3 1/4" BRASS. CAP
ILLEGIBLE

NW. COR.
SEC. 35, T2N, R68W
FOUND 3 1/4" ALUM. CAP
ILLEGIBLE

NE. COR.
SEC. 35, T2N, R68W
FOUND 2" ALUM. CAP
ILLEGIBLE



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. 38-51-302 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

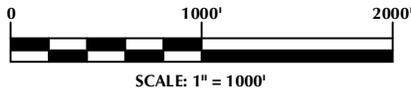
Randall K. French
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 38512
2/7/17

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.

MATCH LINE
SEE SHEET 2

NOTES:

- ▲ INDICATES SECTION CORNER
- INDICATES CALCULATED CORNER
- ELEVATION BASED ON NAVD88 (GEOID12B)
- BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM OF 1983 NORTH ZONE.
- ALL MEASURED DISTANCES ARE GRID.
- COMBINED SCALE FACTOR: .99972351 CALCULATED FROM THE W. 1/4 CORNER OF SECTION 11, T1N, R68W
- OPERATOR: COLE HALL / PDOP = 1.3
- 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 N00°27'15"W, 8837' FROM THE HEEL LOCATION.



NOTE: MAGNETIC NORTH IS CURRENT AS OF 8/24/2016. MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.

WELL PAD - COCHRAN 2N-2HZ

COCHRAN 2N-2HZ
LOCATION CERTIFICATE
2414' FNL & 1446' FEL SWNE (SURFACE)
2155' FSL & 1570' FEL NWSE (HEEL)
LOCATED IN SECTION 11
T1N, R68W, 6TH P.M.
352' FSL & 1587' FEL SWSE (BOTTOM)
LOCATED IN SECTION 35
T2N, R68W, 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: 3 3 OF 3
DATE DRAFTED: 2/7/17	DATE SURVEYED: 8/23/16	
REVISED:	FILE NAME: 16-56	