



# Kerr-McGee Oil & Gas Onshore LP

A subsidiary of Anadarko Petroleum Corporation

1099 18<sup>th</sup> Street  
Denver, CO 80202  
720-929-6000

February 23, 2017

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**  
SWARTZ 1N-12HZ (API # 05-123-42838)  
Township 2 North, Range 65 West  
Section 13: SE/4SE/4  
Unit Acreage: 600  
Unit Spacing: 02N-65W-Sec 1 SE/4SE/4  
02N-65W-Sec 12 E/2NE/4  
02N-65W-Sec 13 E/2

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 Cheryl Light at (720) 929-6461.

Very truly yours,

**KERR-McGEE OIL AND GAS ONSHORE LP**

A handwritten signature in blue ink that reads "Cheryl Light".

Cheryl Light  
Senior Regulatory Analyst

# SWARTZ 1N-12HZ WELL LOCATION CERTIFICATE

PROPOSED SPACING UNIT

S ¼ COR. SEC. 13  
2" ALUM. CAP  
PLS 25937, 1996

BHL- 421' FSL  
707' FEL } SEC. 1  
S89°36'50"E 2594.45'  
(BASIS OF BEARINGS) SEE NOTE 2

NW COR. SEC. 13  
2" ALUM. CAP  
PLS 25937, 1996

S89°36'41"E 2594.89'

S89°36'50"E 2594.45'

NE COR. SEC. 13  
¾" ALUM. CAP  
PLS 23520, 2002

**SURFACE LOCATION:**  
GROUND ELEVATION=4956'  
NAD83 STATE PLANE CO N  
LATITUDE:40.131977°  
LONGITUDE:-104.604795°  
LATITUDE=40° 07' 55.117"  
LONGITUDE=-104° 36' 17.263"

**HEEL LOCATION:**  
NAD83 STATE PLANE CO N  
LATITUDE:40.133173°  
LONGITUDE:-104.606384°  
LATITUDE=40° 07' 59.423"  
LONGITUDE=-104° 36' 22.982"

# 13

**BOTTOM HOLE LOCATION:**  
NAD83 STATE PLANE CO N  
LATITUDE:40.161095°  
LONGITUDE:-104.605439°  
LATITUDE=40° 09' 39.942"  
LONGITUDE=-104° 36' 19.580"

**NOTES:**  
BH AND HEEL LOCATIONS PROVIDED BY CLIENT.  
LAND SURFACE USE-RANGELAND  
EXISTING WELL SWARTZ 16-13 IS 361' NW  
AT 660' FSL & 660' FEL.  
SEE ATTACHED MAP FOR ADDITIONAL  
IMPROVEMENTS WITHIN 500'

PDOP=1.5  
GPS OPERATOR: BEN HARDENBERGH

W ¼ COR. SEC. 13  
¾" ALUM. CAP  
PLS 10855, 1998

S89°55'24"E 2605.94'

S89°49'20"E 2602.73'

E ¼ COR. SEC. 13  
¾" ALUM. CAP  
PLS 27269, 2004

C ¼ COR. SEC. 13  
¾" ALUM. CAP  
PLS 24307, 2006

HEEL- 741' FSL  
962' FEL

N46°07'30"W 622.22'  
(TRUE N45°32'48"W)  
**SWARTZ 1N-12HZ**

SE COR. SEC. 13  
CALC'D FROM W.C. 30' E  
¾" ALUM. CAP  
PLS 27269, 1998

SW COR. SEC. 13  
½" ALUM. CAP  
PLS 34980, 2007

S89°57'07"W 2609.78'

S89°57'07"W 2609.78'

S ¼ COR. SEC. 13  
2½" ALUM. CAP  
PLS 38345, 2013

**LEGEND**

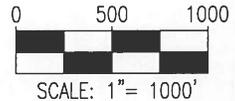
- ⊙ = EXISTING MONUMENT      ✦ = BOTTOM HOLE
- = CALCULATED POSITION    ▲ = HEEL
- = PROPOSED WELL          BHL = BOTTOM HOLE LOCATION
- ◆ = EXISTING WELL

- 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 NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 13, BEARS S89°36'50"E 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 1.000272228.
  4. ELEVATIONS SHOWN ARE NAVD 88, AS DERIVED BY GPS OBSERVATIONS.
  5. CERTIFIED AUGUST 5, 2015 FOR WELLS STAKED ON JANUARY 5, 2015. REVISED JANUARY 6, 2017 FOR HEEL AND BHL CHANGES AND ADDITION OF SECTION 1. CORNERS ON EAST LINE OF SECTION 1 ARE CALCULATED DUE TO ROAD CONSTRUCTION AND WILL BE RESET BY THAT SURVEYOR AFTER CONSTRUCTION.

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.

**WELL SWARTZ 1N-12HZ TO BE  
LOCATED 309' FSL & 518' FEL**

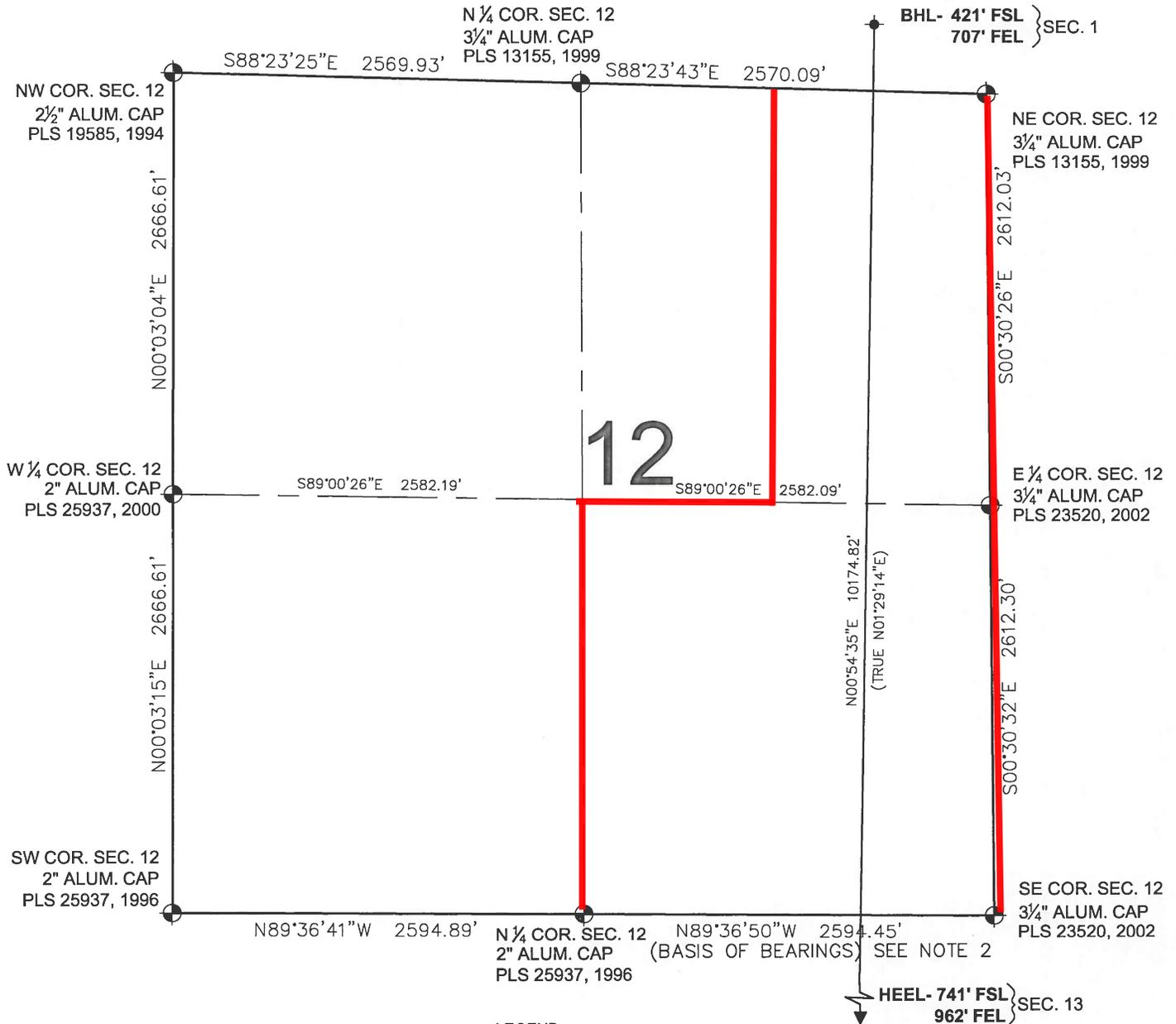
I, JACOB S. FRISCH, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO **KERR-MCGEE OIL & GAS ONSHORE LP**, THAT THE SURVEY AND WELL LOCATION CERTIFICATE SHOWN HEREON WERE DONE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE 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.



PREPARED BY:  Petroleum Field Services, LLC 7535 Hilltop Circle Denver, CO 80221	FIELD DATE: 01-05-15	WELL NAME: <b>SWARTZ 1N-12HZ</b>	PREPARED FOR:  Petroleum Corporation
	DRAWING DATE: 01-05-17	SURFACE LOCATION: SE 1/4 SE 1/4 SEC. 13 T2N, R65W, 6TH P.M. WELD COUNTY, COLORADO	
BY: MDC	CHECKED BY: MLP		

# SWARTZ 1N-12HZ WELL LOCATION CERTIFICATE

PROPOSED SPACING UNIT

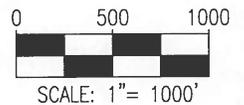
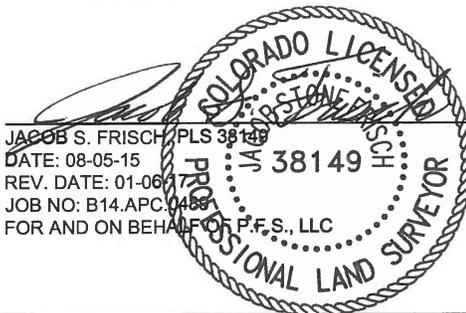


- NOTES:**
- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
  - BEARINGS ARE BASED ON THE ASSUMPTION THAT THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 13, BEARS S89°36'50"E BETWEEN THE MONUMENTS SHOWN HEREON.
  - GRID DISTANCES ARE SHOWN, AS GPS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES. TO GET GROUND DISTANCES MULTIPLY THE SHOWN DISTANCE BY 1.000272228.
  - ELEVATIONS SHOWN ARE NAVD 88, AS DERIVED BY GPS OBSERVATIONS.
  - CERTIFIED AUGUST 5, 2015 FOR WELLS STAKED ON JANUARY 5, 2015. REVISED JANUARY 6, 2017 FOR HEEL AND BHL CHANGES AND ADDITION OF SECTION 1. CORNERS ON EAST LINE OF SECTION 1 ARE CALCULATED DUE TO ROAD CONSTRUCTION AND WILL BE RESET BY THAT SURVEYOR AFTER CONSTRUCTION.

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.

**LEGEND**

- ⊙ = EXISTING MONUMENT      ⬇ = BOTTOM HOLE
- = CALCULATED POSITION    ▲ = HEEL
- = PROPOSED WELL          BHL = BOTTOM HOLE LOCATION
- ◆ = EXISTING WELL

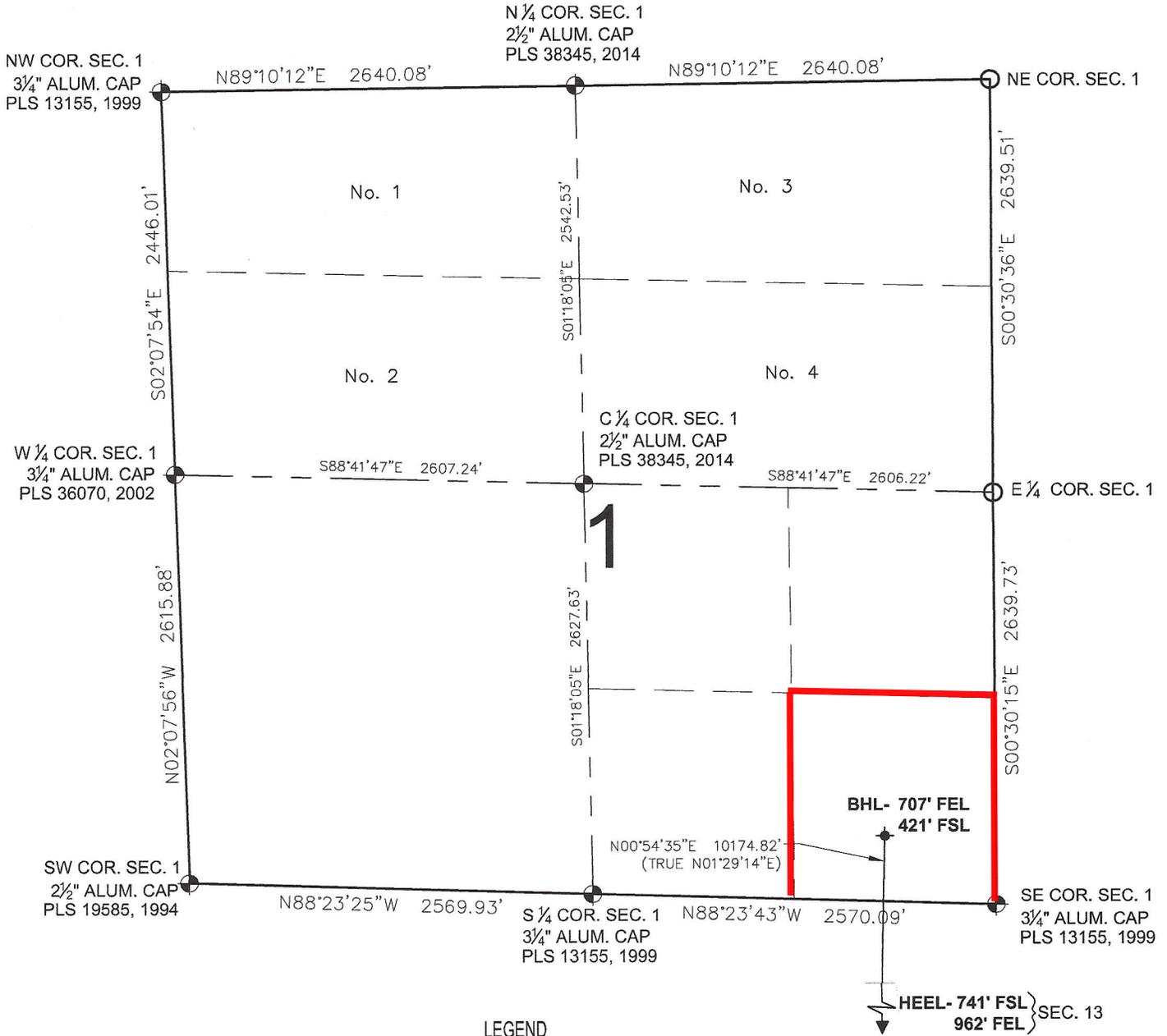


SHEET 2 OF 3

PREPARED BY:  	FIELD DATE: <b>01-05-15</b>	WELL NAME: <b>SWARTZ 1N-12HZ</b>	PREPARED FOR:  
	DRAWING DATE: <b>01-05-17</b>	SURFACE LOCATION: <b>SE 1/4 SE 1/4 SEC. 13 T2N, R65W, 6TH P.M.</b>	
	BY: <b>MDC</b>	CHECKED BY: <b>MLP</b>	

# SWARTZ 1N-12HZ WELL LOCATION CERTIFICATE

PROPOSED SPACING UNIT



**LEGEND**

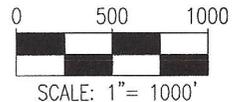
- ⊕ = EXISTING MONUMENT      ◆ = BOTTOM HOLE
- = CALCULATED POSITION      ▲ = HEEL
- = PROPOSED WELL          BHL = BOTTOM HOLE LOCATION
- ◆ = EXISTING WELL

**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 NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 13, BEARS S89°36'50"E 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 1.000272228.
4. ELEVATIONS SHOWN ARE NAVD 88, AS DERIVED BY GPS OBSERVATIONS.
5. CERTIFIED AUGUST 5, 2015 FOR WELLS STAKED ON JANUARY 5, 2015. REVISED JANUARY 6, 2017 FOR HEEL AND BHL CHANGES AND ADDITION OF SECTION 1. CORNERS ON EAST LINE OF SECTION 1 ARE CALCULATED DUE TO ROAD CONSTRUCTION AND WILL BE RESET BY THAT SURVEYOR AFTER CONSTRUCTION.

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.

JACOB S. FRISCH PLS 38149  
 DATE: 08-05-15  
 REV. DATE: 01-06-17  
 JOB NO: B14.APC.0489  
 FOR AND ON BEHALF OF P.F.S., LLC



SHEET 3 OF 3

PREPARED BY: 	FIELD DATE: 01-05-15	WELL NAME: SWARTZ 1N-12HZ	PREPARED FOR: 
	DRAWING DATE: 01-05-17	SURFACE LOCATION: SE 1/4 SE 1/4 SEC. 13 T2N, R65W, 6TH P.M. WELD COUNTY, COLORADO	
BY: MDC	CHECKED BY: MLP		