

R. 60 W.

S 89°15'59" W 5296.16'



SCALE 1" = 1000'

T. 8 N.

**STATE
8-60 16-1H**
**UNGRADED ELEVATION:
4907.4'**

BASIS OF ELEVATION: USGS SPOT
ELEVATION LOCATED AT THE NE
CORNER SECTION 16, T8N, R60W,
ELEVATION: 4923'

LATITUDE (NAD 83)
NORTH 40.667913 DEG.
LONGITUDE (NAD 83)
WEST 104.093668 DEG.

LATITUDE (NAD 27)
NORTH 40.667927 DEG.
LONGITUDE (NAD 27)
WEST 104.093163 DEG.

NORTHING
489255.77
EASTING
2390264.12

BASIS OF BEARING/DATUM
SPCS CO NORTH NAD 27
BASED ON NGS TRIANGULATION
STATION "SNOW"

S 00°24'38" E 5235.31'

16

BHL
LATITUDE (NAD 83)
NORTH 40.656807 DEG.
LONGITUDE (NAD 83)
WEST 104.093939 DEG.
LATITUDE (NAD 27)
NORTH 40.656821 DEG.
LONGITUDE (NAD 27)
WEST 104.093434 DEG.

NORTHING
485209
EASTING
2390253

(1313.30')
(1313.31')
(1313.30')
(1313.31')

600'

1980'

(1324.04')

(1324.04')

(1311.12')

(1311.11')

N 89°27'22" E 5244.47'



NOTES

PRARIE LANDS
NO EXISTING FEATURES WITHIN
400' RADIUS OF WELL SITE.

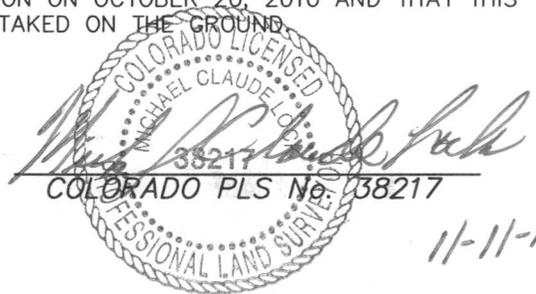
GPS OPERATOR PAUL ORME
OBSERVED A PDOP OF 2.4.
ALL GPS OBSERVATIONS ARE IN
COMPLIANCE WITH COGCC RULE No.215.

SURVEYOR'S STATEMENT

I, MICHAEL C. LOCK, OF ROCK SPRINGS, WYOMING, HEREBY STATE: THIS MAP WAS MADE FROM NOTES TAKEN DURING AN ACTUAL FIELD SURVEY DONE UNDER MY DIRECT SUPERVISION ON OCTOBER 20, 2010 AND THAT THIS PLAT CORRECTLY SHOWS THE LOCATION OF STATE 8-60 16-1H AS STAKED ON THE GROUND.

LEGEND

- ◆ WELL LOCATION
- BOTTOM HOLE LOC. (APPROX)
- FOUND MONUMENT
- ▲ PREVIOUSLY FOUND MONUMENT
- CALCULATED CORNER



DRG RIFFIN & ASSOCIATES, INC.
(307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901

DRAWN: 10/22/10 - MMM	SCALE: 1" = 1000'
REVISED: NA	DRG JOB No. 18171
	EXHIBIT 1

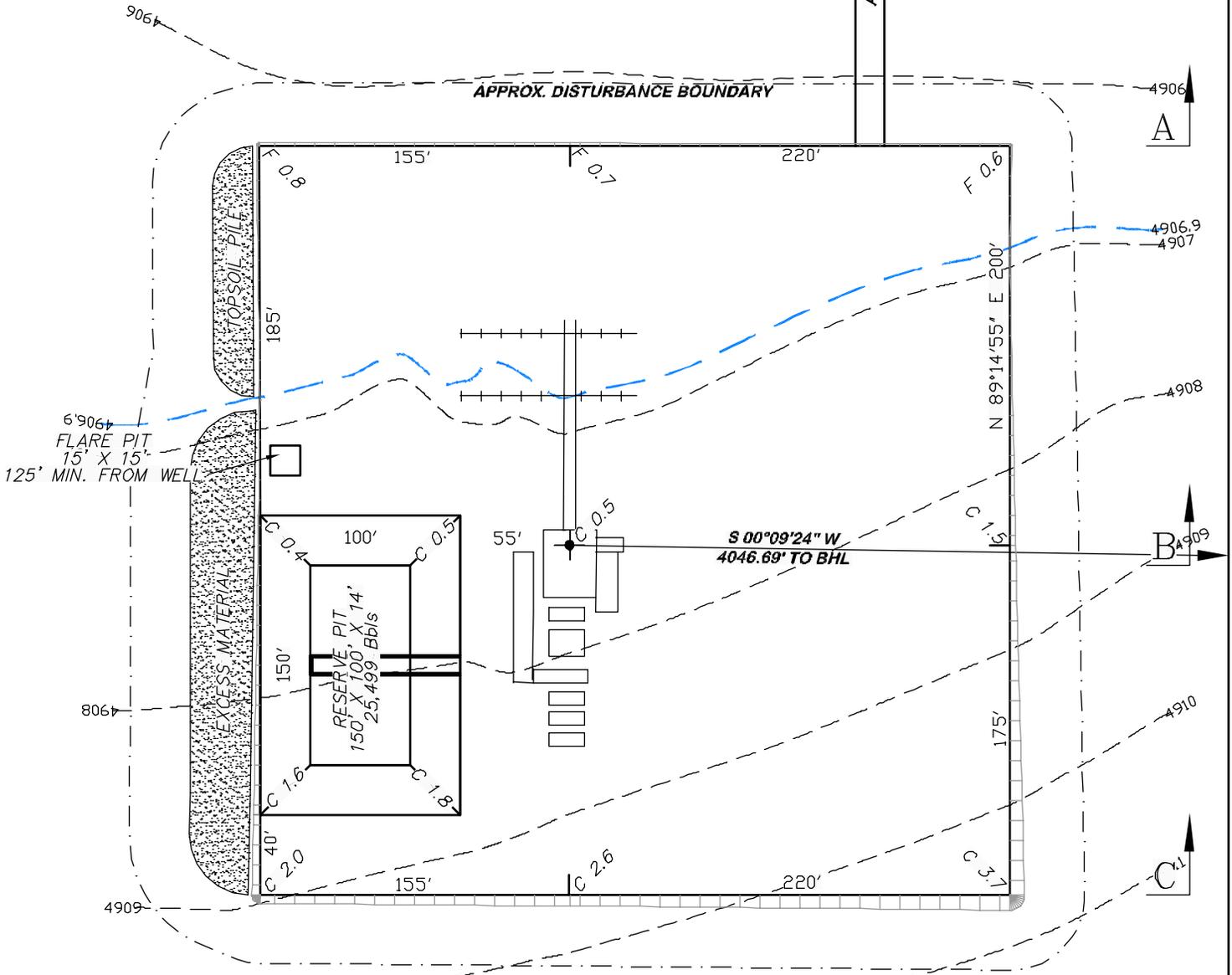
**PLAT OF DRILLING LOCATION
FOR
CHESAPEAKE ENERGY CORPORATION**
**600' F/NL & 19680' F/EL, NWE, SECTION 16,
T. 8 N., R. 60 W., 6th P.M.
WELD COUNTY, COLORADO**

APPROXIMATE DISTURBANCE AREA: 4.7 ACRES±
 1.0% GRADE ON A NORTHEASTERLY SLOPE
 UNGRADED ELEVATION: 4907.4'
 FINISHED ELEVATION: 4906.9'

2A ATTACHMENT
8A



ACCESS ROAD



**BEFORE DIGGING
 CALL FOR
 UTILITY LINE LOCATION**

NOTE: THE EARTH QUANTITIES ON
 THIS DRAWING ARE ESTIMATED
 AND THE USE OF THIS IS AT THE
 RESPONSIBILITY OF THE USER.



(307) 362-5028

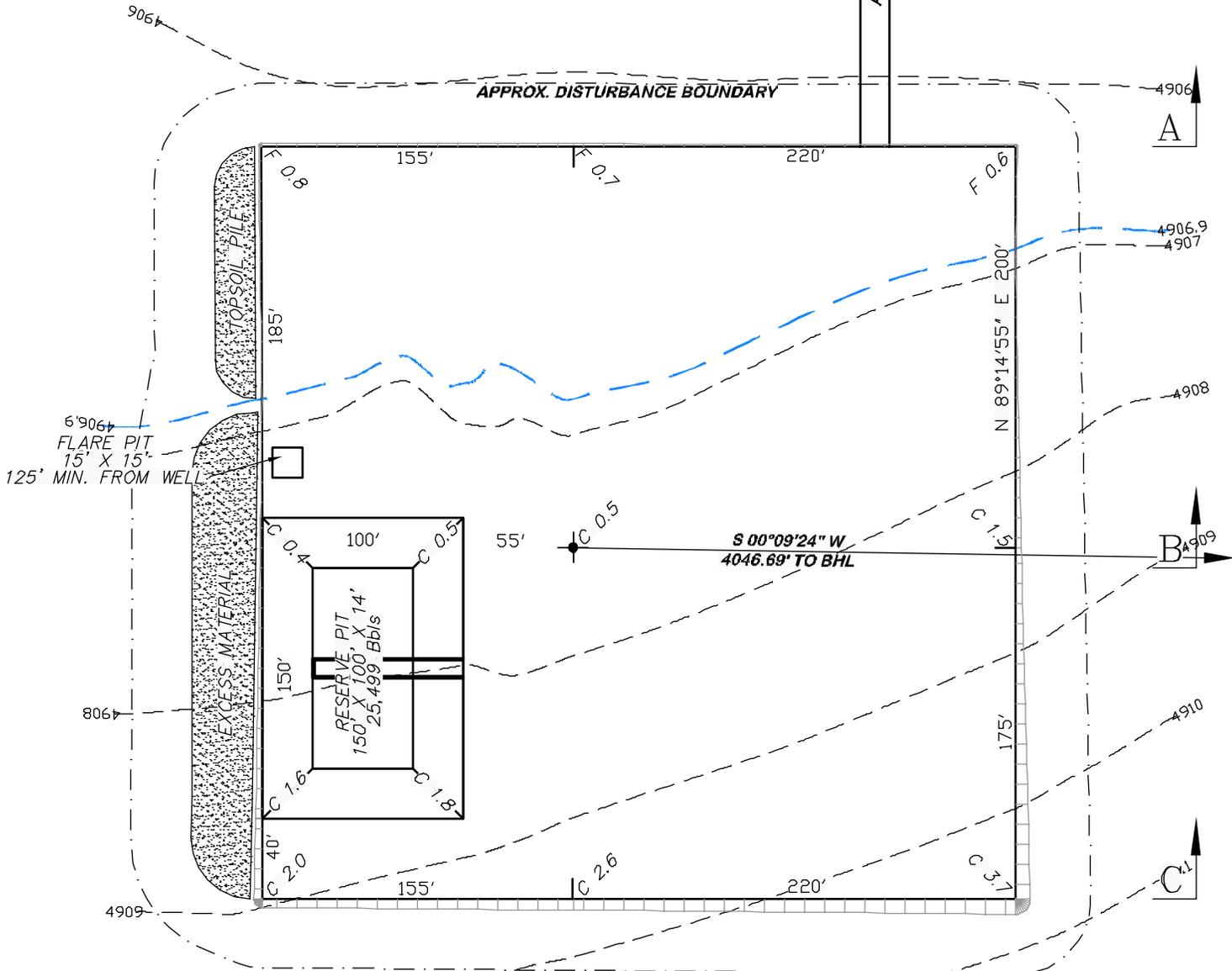
CHESAPEAKE ENERGY CORPORATION
STATE 8-60 16-1H
SECTION 16, T8N, R60W
ESTIMATED EARTHWORK

	ITEM	CUT	FILL	TOPSOIL	EXCESS
DRAWN: 10/22/10 - MMM	PAD	4910 CY	466 CY	2605 CY	1839 CY
REVISED: NA	PIT	5635 CY			5635 CY
SCALE: 1" = 80'	TOTALS	10545 CY	466 CY	2605 CY	7474 CY
DRG JOB No. 18171					
EXHIBIT 2					

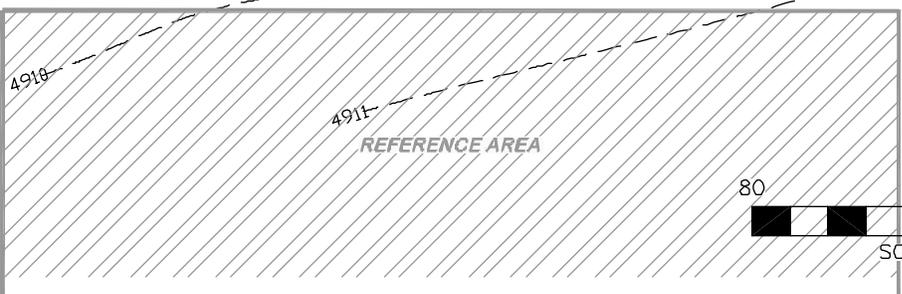
APPROXIMATE DISTURBANCE AREA: 4.7 ACRES±
1.0% GRADE ON A NORTHEASTERLY SLOPE
UNGRADED ELEVATION: 4907.4'
FINISHED ELEVATION: 4906.9'



ACCESS ROAD



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 NOTE: THE EARTH QUANTITIES ON
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 DRG RIFFIN & ASSOCIATES, INC. (307) 382-5028 1414 ELK ST., ROCK SPRINGS, WY 82901		CHESAPEAKE ENERGY CORPORATION STATE 8-60 16-1H SECTION 16, T8N, R60W	
DRAWN: 10/26/10 - MMM	SCALE: 1" = 80'	UNGRADED ELEVATION: 4907.4' FINISHED ELEVATION: 4906.9'	
REVISED: NA	DRG JOB No. 18171		
EXHIBIT 2A			

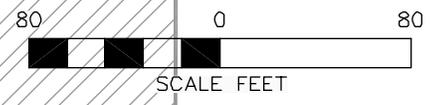
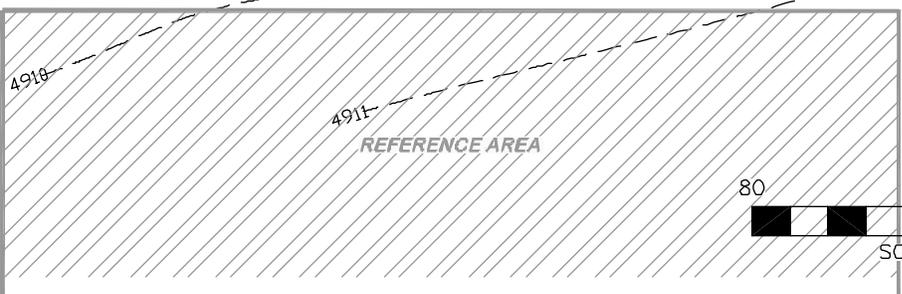
APPROXIMATE DISTURBANCE AREA: 4.7 ACRES±
1.0% GRADE ON A NORTHEASTERLY SLOPE
UNGRADED ELEVATION: 4907.4'
FINISHED ELEVATION: 4906.9'

ACCESS ROAD



NEED
STORMWATER
BMP INFO

BEFORE DIGGING
CALL FOR
UTILITY LINE LOCATION
NOTE: THE EARTH QUANTITIES ON THIS DRAWING ARE ESTIMATED AND THE USE OF THIS IS AT THE RESPONSIBILITY OF THE USER.

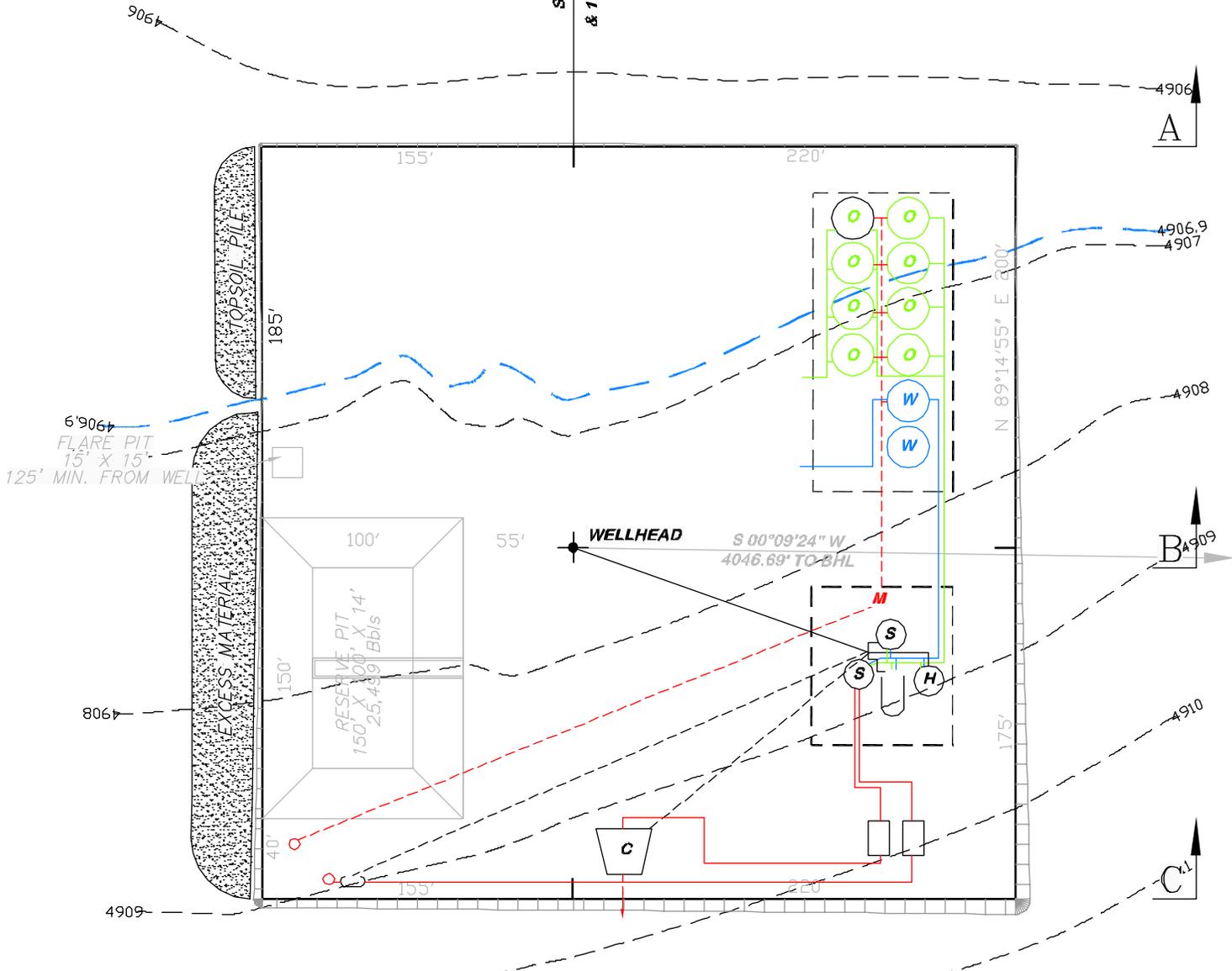


 <p>DRG RIFFIN & ASSOCIATES, INC. (307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901</p>		<p>CHESAPEAKE ENERGY CORPORATION STATE 8-60 16-1H SECTION 16, T8N, R60W</p>	
<p>DRAWN: 10/26/10 - MMM</p>	<p>SCALE: 1" = 80'</p>	<p>UNGRADED ELEVATION: 4907.4' FINISHED ELEVATION: 4906.9'</p>	
<p>REVISED: NA</p>	<p>DRG JOB No. 18171</p>		
	<p>EXHIBIT 2B</p>		

APPROXIMATE DISTURBANCE AREA: 4.7 ACRES±
 1.0% GRADE ON A NORTHEASTERLY SLOPE
 UNGRADED ELEVATION: 4907.4'
 FINISHED ELEVATION: 4906.9'

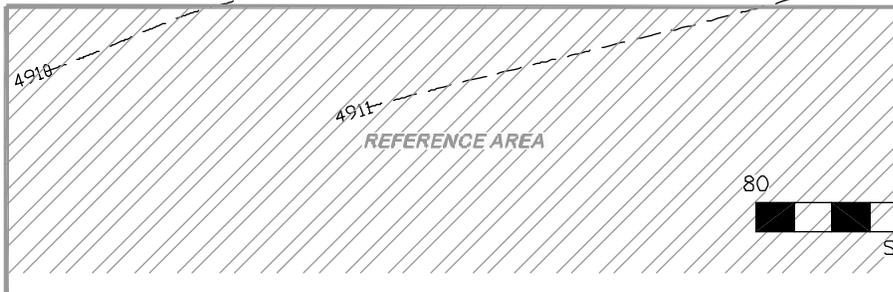
4.5 MILES NORTHEASTERLY TO WILD HORSE RES. NO. 1

1780' TO THE EAST
 SECTION LINE OF SEC. 16
 & 1788" TO THE CENTERLINE
 OF COUNTY ROAD 103



**BEFORE DIGGING
 CALL FOR
 UTILITY LINE LOCATION**

NOTE: THE EARTH QUANTITIES ON
 THIS DRAWING ARE ESTIMATED
 AND THE USE OF THIS IS AT THE
 RESPONSIBILITY OF THE USER.



DRIFIN & ASSOCIATES, INC.
 1414 ELK ST., ROCK SPRINGS, WY 82901

(307) 382-5028

DRAWN: 11/24/10 - KRH

SCALE: 1" = 80'

REVISED: NA

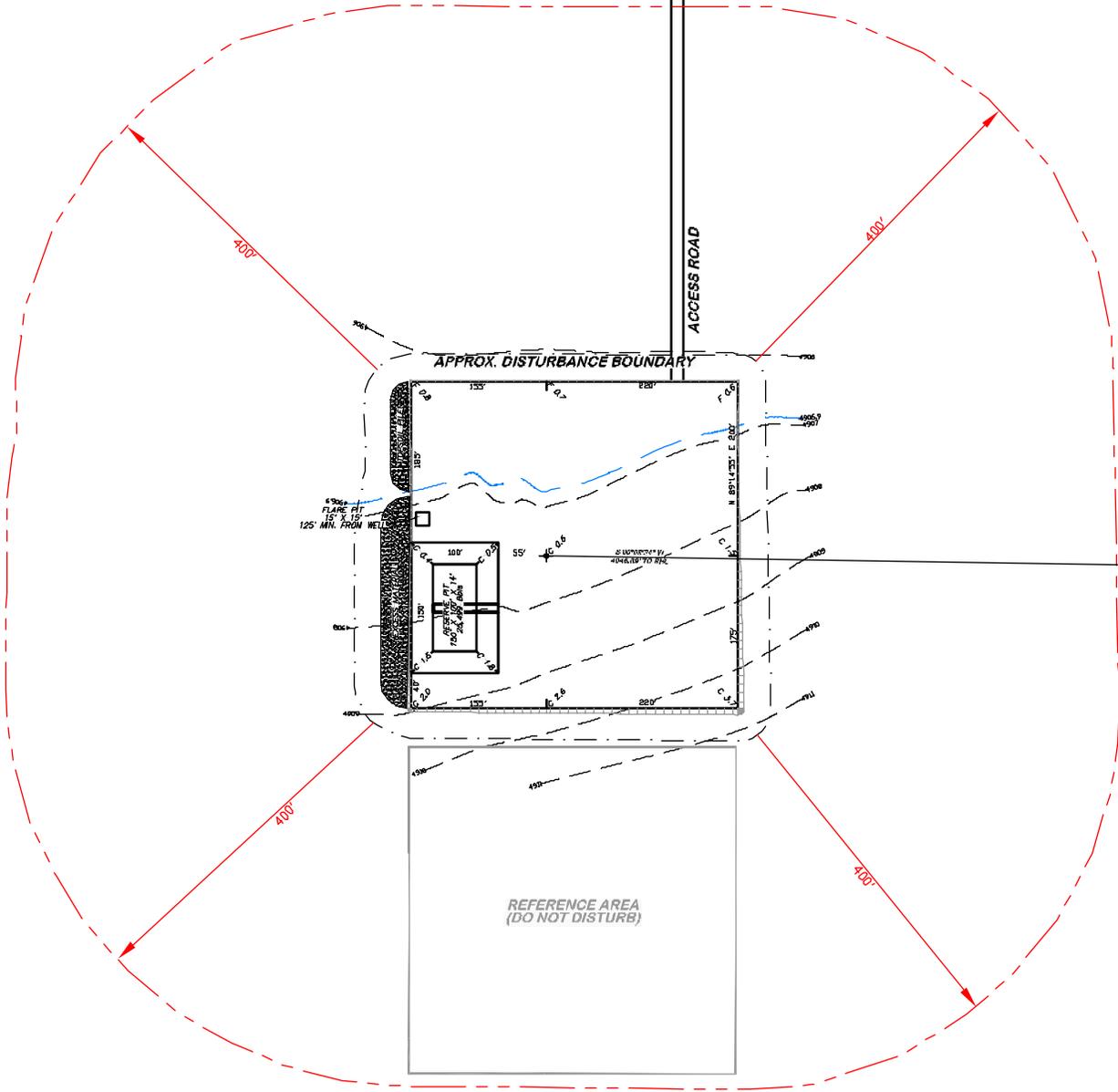
DRG JOB No. 18171

EXHIBIT 2E

CHESAPEAKE ENERGY CORPORATION
STATE 8-60 16-1H
SECTION 16, T8N, R60W

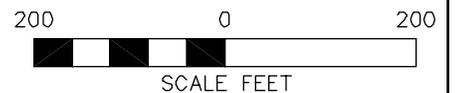
UNGRADED ELEVATION: 4907.4'
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APPROXIMATE DISTURBANCE AREA: 4.7 ACRES±
 1.0% GRADE ON A NORTHEASTERLY SLOPE
 UNGRADED ELEVATION: 4907.4'
 FINISHED ELEVATION: 4906.9'



**BEFORE DIGGING
 CALL FOR
 UTILITY LINE LOCATION**

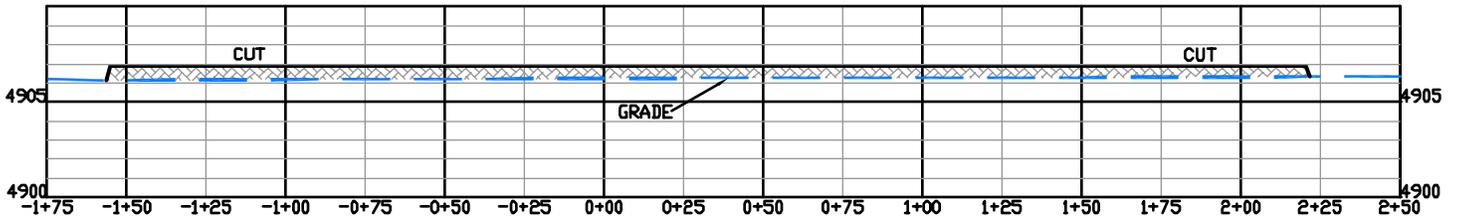
NOTE: THE EARTH QUANTITIES ON THIS DRAWING ARE ESTIMATED AND THE USE OF IS AT THE RESPONSIBILITY OF THE USER.



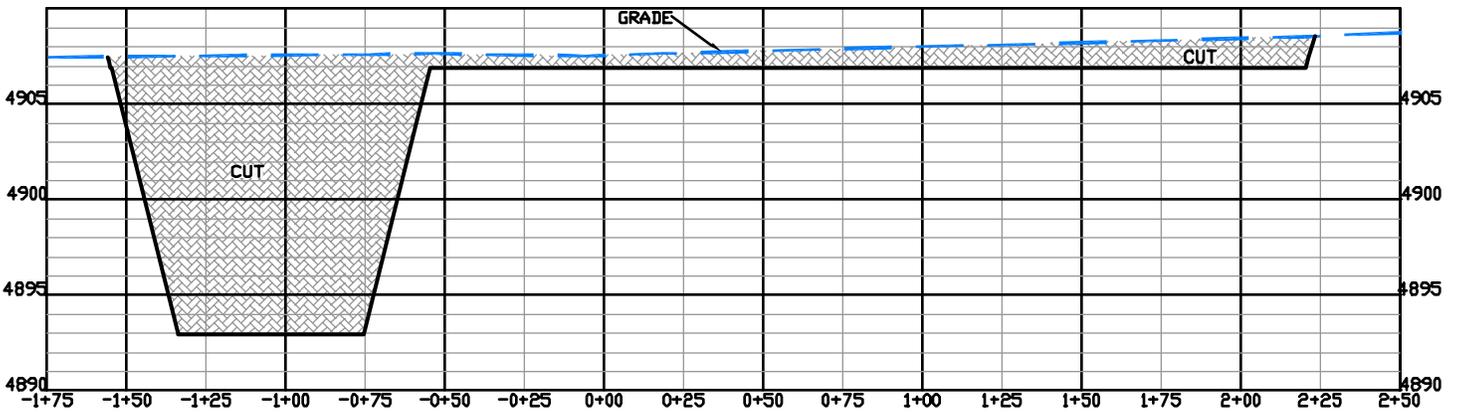
 DRG RIFFIN & ASSOCIATES, INC. (307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901			
		LOCATION DRAWING	
DRAWN: 10/26/10 - MMM	SCALE: 1" = 200'	CHESAPEAKE ENERGY CORPORATION STATE 8-60 16-1H SECTION 16, T8N, R60W	
REVISED: NA	DRG JOB No. 18171	UNGRADED ELEVATION: 4907.4' FINISHED ELEVATION: 4906.9'	
		EXHIBIT 2D	

LOCATION DRAWING	
CHESAPEAKE ENERGY CORPORATION STATE 8-60 16-1H SECTION 16, T8N, R60W	
UNGRADED ELEVATION: 4907.4' FINISHED ELEVATION: 4906.9'	
EXHIBIT 2D	

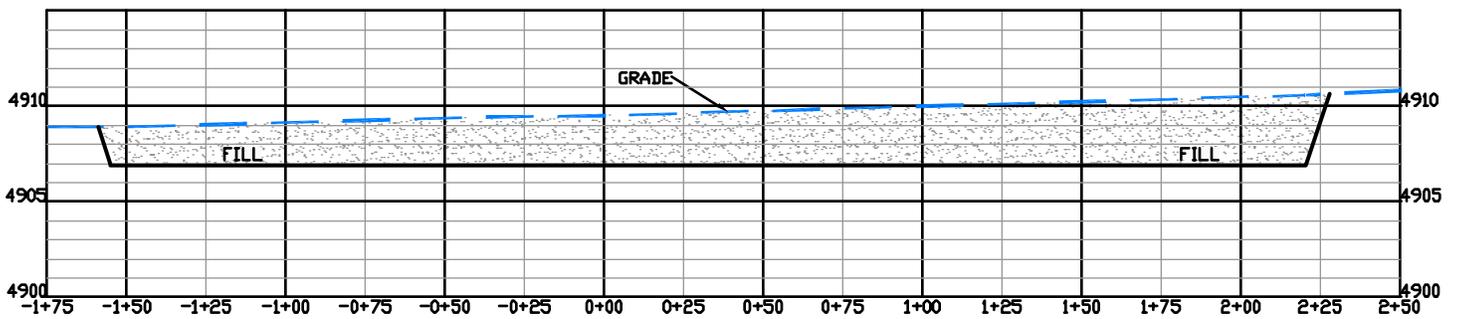
**2A ATTACHMENT
8B**



A



B



C

DRG RIFFIN & ASSOCIATES, INC.
 (307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901

**CHESAPEAKE ENERGY CORPORATION
 STATE 8-60 16-1H
 SECTION 16, T8N, R60W**

DRAWN: 10/26/10 - MMM

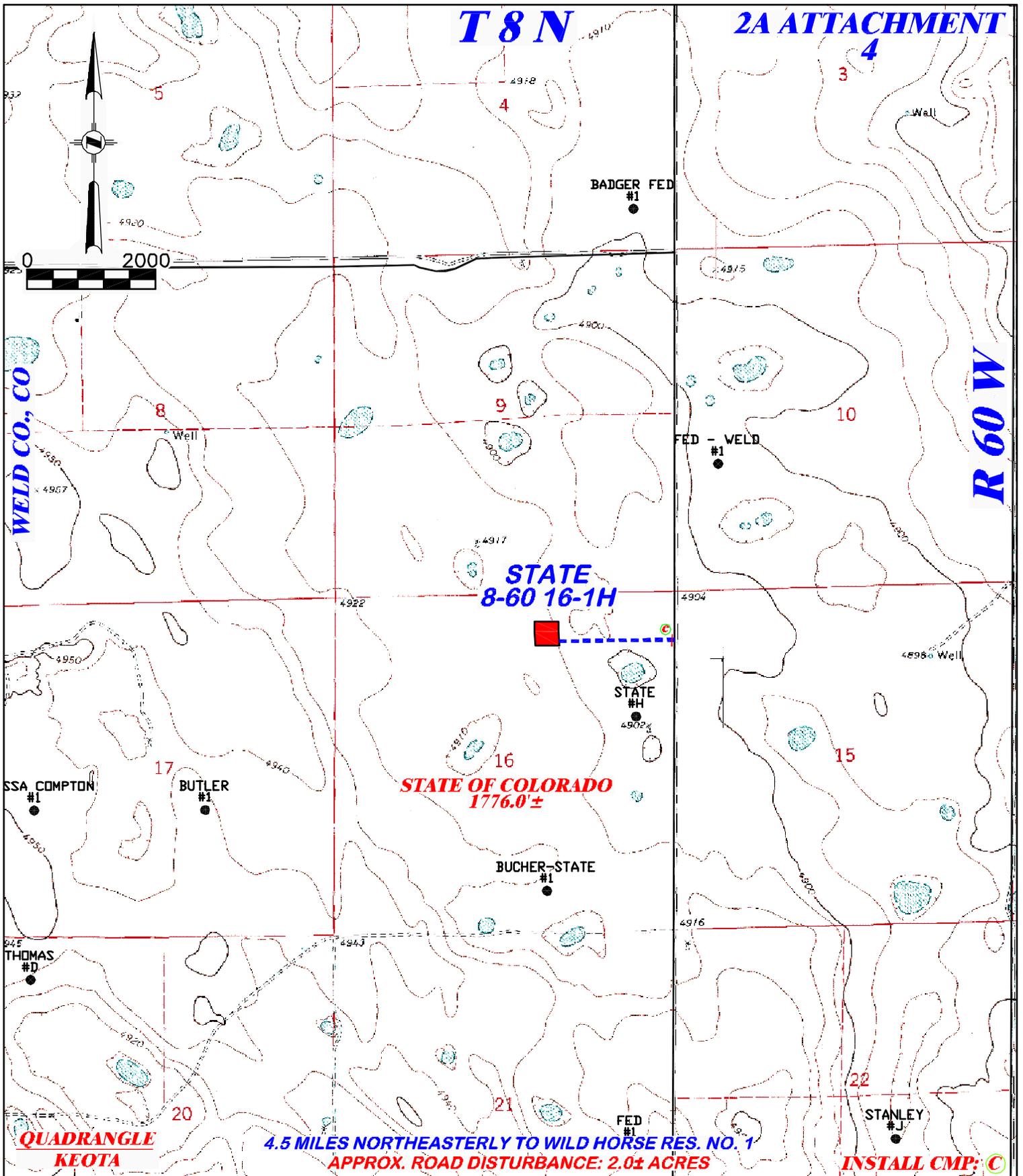
HORZ. 1" = 60' VERT. 1" = 10'

REVISED: NA

DRG JOB No. 18171

EXHIBIT 3

UNGRADED ELEVATION: 4907.4'
 FINISHED ELEVATION: 4906.9'

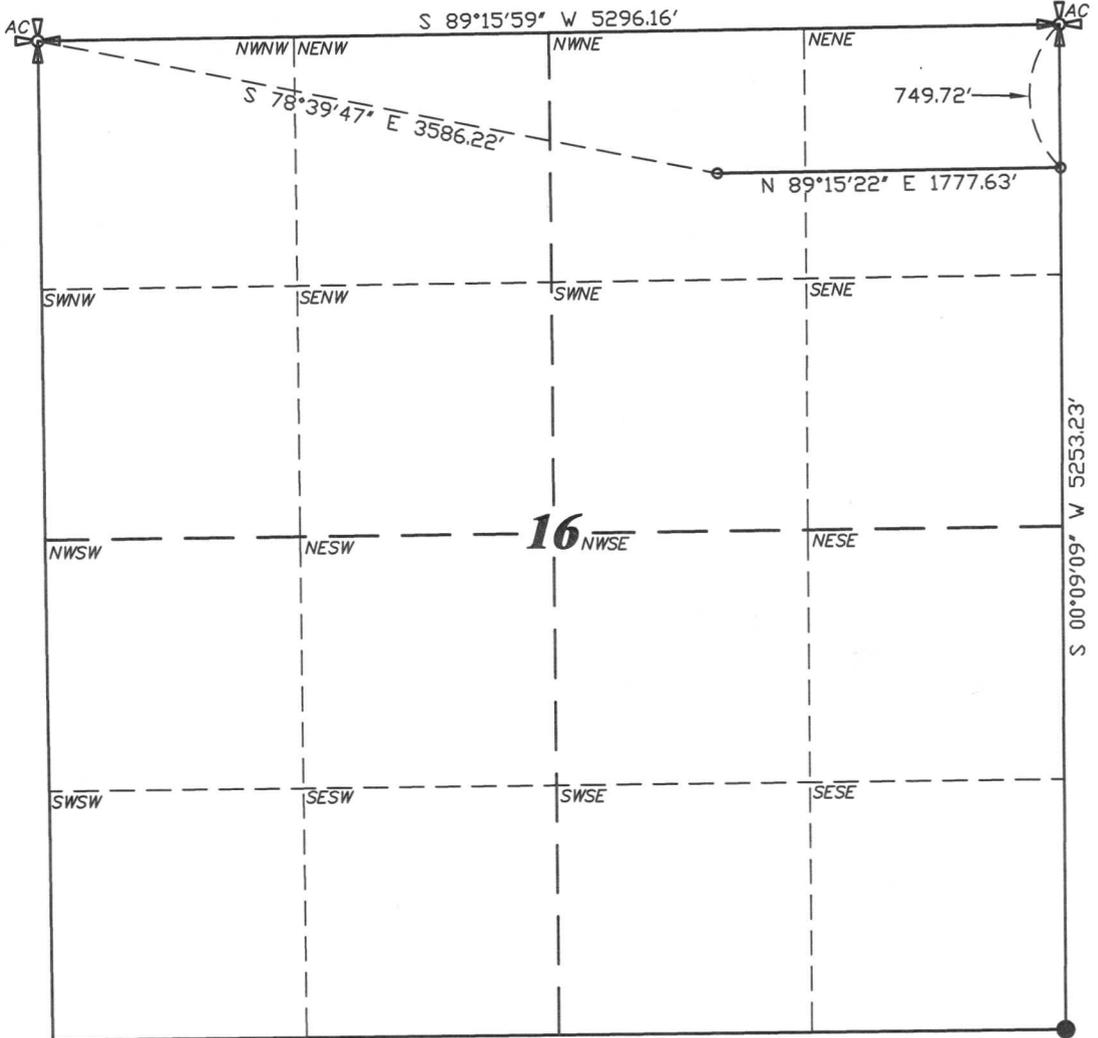


 DRG RIFFIN & ASSOCIATES, INC. (307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901		PROPOSED ROAD	
		CHESAPEAKE ENERGY CORPORATION STATE 8-60 16-1H SECTION 16, T8N, R60W	
DRAWN: 10/26/10 - MMM	SCALE: 1" = 2000'	TOTAL PROPOSED LENGTH: 1776.0±	
REVISED: NA	DRG JOB No. 18171	PROPOSED ROAD - - - - - EXISTING ROAD ———	
EXHIBIT 4			

SECTION 16, TOWNSHIP 8 NORTH, RANGE 60 WEST, of the 6th P.M.



SCALE' 1" = 1000'
500' 0 1000'



STATE OF COLORADO
COUNTY OF WELD

APPARENT OWNERSHIP:
STATE OF COLORADO

- FOUND MONUMENT SECTION CORNER
- FOUND MONUMENT QUARTER CORNER
- PROJECTED CORNER
- MONUMENT FOUND IN PREVIOUS SURVEY

DATUM
SPCS WYWC (NAD 27)

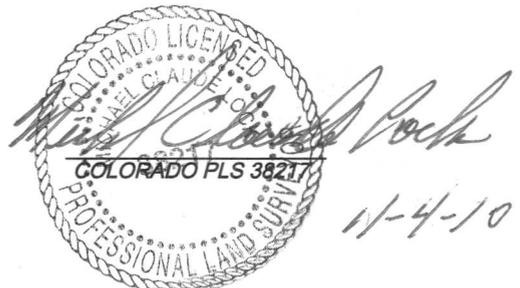
SURVEY DESCRIPTION:

A STRIP OF LAND, 50.00 FEET IN WIDTH FOR A PROPOSED ROAD RIGHT-OF-WAY, ALL SITUATED IN THE NORTH HALF OF THE NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 8 NORTH, RANGE 60 WEST, 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, THE BOUNDARIES THEREOF BEING 25.00 FEET ON EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE SECTION CORNER COMMON TO SECTIONS 8, 9, 16 AND 17, TOWNSHIP 8 NORTH, RANGE 60 WEST, 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, BEING AN ALUMINUM CAP MONUMENT, THENCE SOUTH 78°39'47" EAST, 3586.22 FEET TO THE TRUE POINT OF BEGINNING;
THENCE NORTH 89°15'22" EAST, 1777.63 FEET TO THE POINT OF TERMINUS, SOUTH 00°09'09" WEST, 749.72 FEET FROM THE SECTION CORNER COMMON TO SECTIONS 9, 10, 15 AND 16, TOWNSHIP 8 NORTH, RANGE 60 WEST, 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO, BEING AN ALUMINUM CAP MONUMENT.

STATEMENT OF SURVEYOR:

MICHAEL C. LOCK STATES HE IS BY OCCUPATION A PROFESSIONAL LAND SURVEYOR EMPLOYED BY CHESAPEAKE ENERGY CORPORATION TO MAKE A SURVEY OF THE CENTERLINE OF A PROPOSED ROAD RIGHT-OF-WAY AS DESCRIBED AND SHOWN HEREON; THAT THE SURVEY OF SAID WORK WAS MADE UNDER HIS SUPERVISION AND AUTHORITY, COMMENCING ON THE 20th DAY OF OCTOBER, 2010; AND THAT SUCH SURVEY IS ACCURATELY REPRESENTED UPON THIS PLAT.



Total R-O-W Width 50 Feet,
25 Left, 25 Right of Centerline.
1776.02 Feet, 107.64 Rods, 2.039 Acres.

DRG RIFFIN & ASSOCIATES, INC.
(307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901

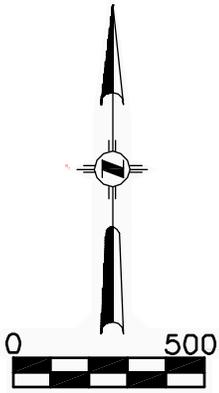
DRAWN: 10/26/10 - MMM	SCALE: 1" = 1000'
REVISED: NA	DRG JOB No. 18171
EXHIBIT A	

**A MAP SHOWING A
PROPOSED ROAD RIGHT-OF-WAY
PREPARED FOR:
CHESAPEAKE ENERGY CORPORATION**

T 8 N

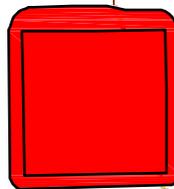
2A ATTACHMENT

3



4917

STATE
8-60 16-1H



1000'

R 60 W

WELD CO., CO

STATE
#H

4902

STATE OF COLORADO

QUADRANGLE
KEOTA

16



RIFFIN & ASSOCIATES, INC.
1414 ELK ST., ROCK SPRINGS, WY 82901

(307) 382-5028

DRAWN: 10/26/10 - MMM

SCALE: 1" = 500'

REVISED: NA

DRG JOB No. 18171

EXHIBIT 4A

HYDROLOGY MAP

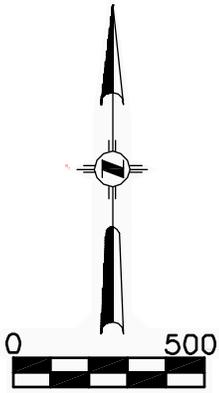
CHESAPEAKE ENERGY CORPORATION
STATE 8-60 16-1H
SECTION 16, T8N, R60W

PROPOSED ACCESS - - - - -

EXISTING ROAD —————

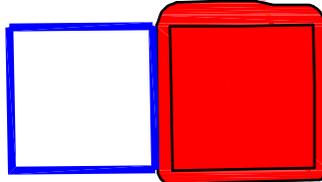
T 8 N

2A ATTACHMENT
5



4917

STATE
8-60 16-1H



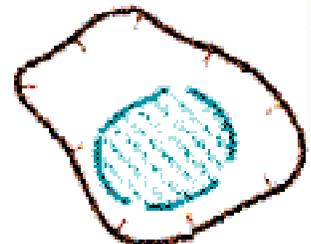
STATE
8-60 16-1H
REFERENCE AREA

CENTER OF REFERENCE AREA
LATITUDE (NAD 83)
NORTH 40.667914 DEG.
LONGITUDE (NAD 83)
WEST 104.095018 DEG.

REFERENCE AREA
3.2± ACRES
(DO NOT DISTURB)

R 60 W

WELD CO., CO



STATE
#H
●
4902

4910

STATE OF COLORADO

16

QUADRANGLE
KEOTA



RIFFIN & ASSOCIATES, INC.
1414 ELK ST., ROCK SPRINGS, WY 82901

(307) 362-5028

DRAWN: 10/26/10 - MMM

SCALE: 1" = 500'

REVISED: NA

DRG JOB No. 18171

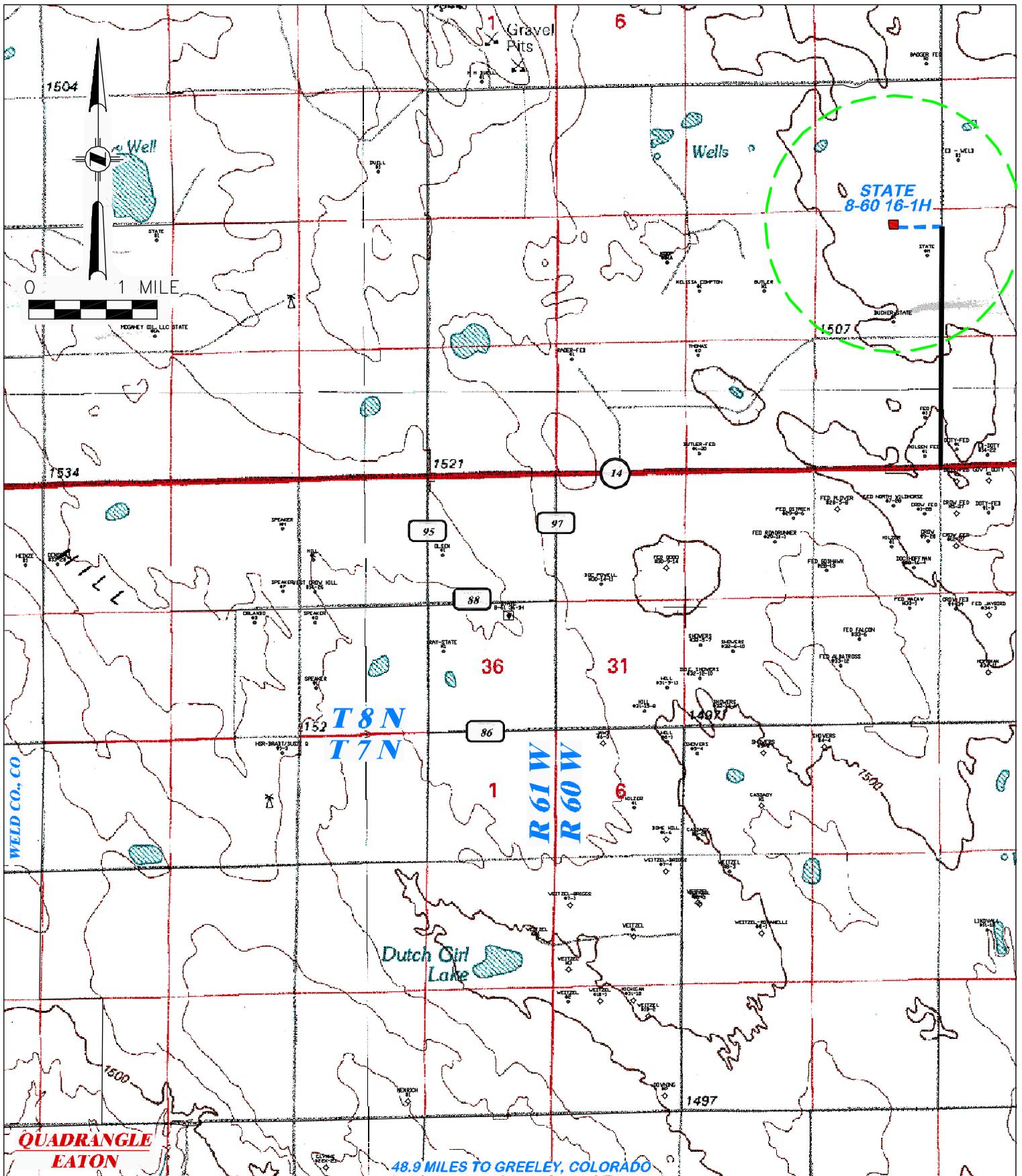
EXHIBIT 4B

REFERENCE AREA MAP

CHESAPEAKE ENERGY CORPORATION
STATE 8-60 16-1H
SECTION 16, T8N, R60W

PROPOSED ACCESS - - - - -

EXISTING ROAD ———



DRG RIFFIN & ASSOCIATES, INC.
 (307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901

DRAWN: 10/26/10 - MMM	SCALE: 1" = MILE
REVISED: NA	DRG JOB No. 18171
EXHIBIT 5	

PROPOSED ACCESS FOR

CHESAPEAKE ENERGY CORPORATION
STATE 8-60 16-1H
SECTION 16, T8N, R60W

PROPOSED ROAD - - - - -	EXISTING ROAD ———
-------------------------	-------------------

**2A ATTACHMENT
1**



WELL LOCATION LOOKING NORTH



WELL LOCATION LOOKING SOUTH



WELL LOCATION LOOKING EAST



WELL LOCATION LOOKING WEST



PROPOSED ACCESS AT PAD



PROPOSED ACCESS TAKE-OFF

PHOTOS TAKEN: 10/20/2010

DRG RIFFIN & ASSOCIATES, INC.

1414 ELK ST., SUITE 202
ROCK SPRINGS, WY 82901
(307) 362-5028

DRG JOB No. 18171

DRAWN: 10/26/10 - MMM

LOCATION PICTURES

**CHESAPEAKE ENERGY CORPORATION
STATE 8-60 16-1H
SECTION 16, T8N, R60W**

REVISED: NA

EXHIBIT 6



LOOKING NORTH



LOOKING SOUTH



LOOKING EAST



LOOKING WEST

CENTER OF REFERENCE AREA

LATITUDE (NAD 83)

NORTH 40.667914 DEG.

LONGITUDE (NAD 83)

WEST 104.095018 DEG.

PHOTOS TAKEN: 10/20/2010



RIFFIN & ASSOCIATES, INC.

1414 ELK ST., SUITE 202
ROCK SPRINGS, WY 82901
(307) 362-5028

DRG JOB No. 18171

DRAWN: 10/26/10 - MMM

REFERENCE AREA PICTURES

**CHESAPEAKE ENERGY CORPORATION
STATE 8-60 16-1H
SECTION 16, T8N, R60W**

REVISED: NA

EXHIBIT
6A



PROPOSED ACCESS AT PAD



PROPOSED ACCESS TAKE-OFF

PHOTOS TAKEN: 10/20/2010



PROPOSED ACCESS AT COUNTY ROAD 103 LOOKING NORTH



PROPOSED ACCESS COUNTY ROAD 103 LOOKING SOUTH

PHOTOS TAKEN: 10/29/2010



RIFFIN & ASSOCIATES, INC.

1414 ELK ST., SUITE 202
ROCK SPRINGS, WY 82901
(307) 362-5028

DRG JOB No. 18171

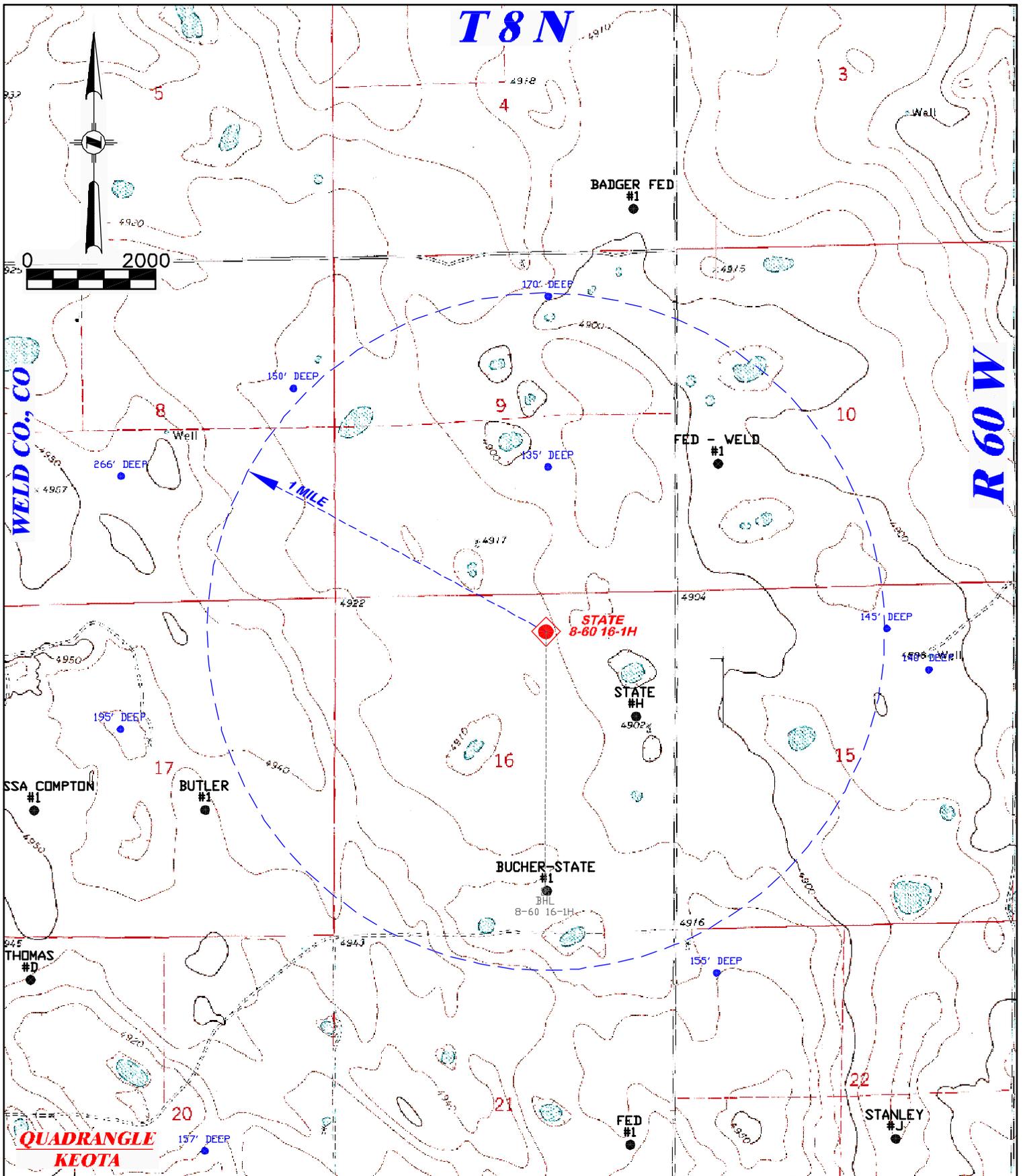
DRAWN: 11/01/10 - KRH

LOCATION PICTURES

***CHESAPEAKE ENERGY CORPORATION
STATE 8-60 16-1H
SECTION 16, T8N, R60W***

REVISED: NA

***EXHIBIT
6B***



DRG RIFFIN & ASSOCIATES, INC.
 (307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901

DRAWN: 10/26/10 - MMM	SCALE: 1" = 2000'
REVISED: NA	DRG JOB No. 18171
EXHIBIT 7	

LOCATION OF WELLS
CHESAPEAKE ENERGY CORPORATION
STATE 8-60 16-1H
SECTION 16, T8N, R60W

WELL SYMBOL LEGEND		
PROPOSED WELL:	DRILLED WELL:	BOTTOM HOLE:
STAKED WELL:	P/A WELL:	WATER WELL:

CHESAPEAKE ENERGY CORPORATION
STATE 8-60 16-1H
SEC. 16, T8N, R60W
WELD COUNTY, COLORADO

Begin at the town of Greeley, Colorado and drive northerly on Interstate 85 for 11.0 miles. At the town of Ault, Colorado turn Right onto Highway 14 and drive northeasterly for 35.7 miles. Turn left onto dirt road and drive northerly for 1.9 miles. Turn left onto proposed access road and drive westerly for 0.3 miles to reach the proposed well site.