

KGH OPERATING COMPANY MEAGHER #14-1H

LOCATED IN RIO BLANCO COUNTY, COLORADO
SECTION 14, T1S, R104W, 6TH P.M.



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE : EASTERLY



120 W. 84TH AVENUE
THORNTON, COLORADO 80260
PH. 303-702-1617
FAX. 303-702-1488
WWW.POWERSURVEYING.COM

LOCATION PHOTOS	MONTH OCTOBER	P1
	DAY 18	
SURVEYED BY: C. VAN MATRE DRAWN BY: D. YOSHIDA APPROVED BY: R. GABRIEL	REVISIED: YEAR 2012	

KGH OPERATING COMPANY MEAGHER #14-1H

LOCATED IN RIO BLANCO COUNTY, COLORADO
SECTION 14, T1S, R104W, 6TH P.M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: SOUTHERLY



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LOCATION PHOTOS	MONTH OCTOBER	P2
	DAY 18	
SURVEYED BY: C. VAN MATRE DRAWN BY: D. YOSHIDA APPROVED BY: R. GABRIEL	REVISED:	

KGH OPERATING COMPANY MEAGHER #14-1H

LOCATED IN RIO BLANCO COUNTY, COLORADO
SECTION 14, T1S, R104W, 6TH P.M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO: VIEW OF LOCATION STAKE

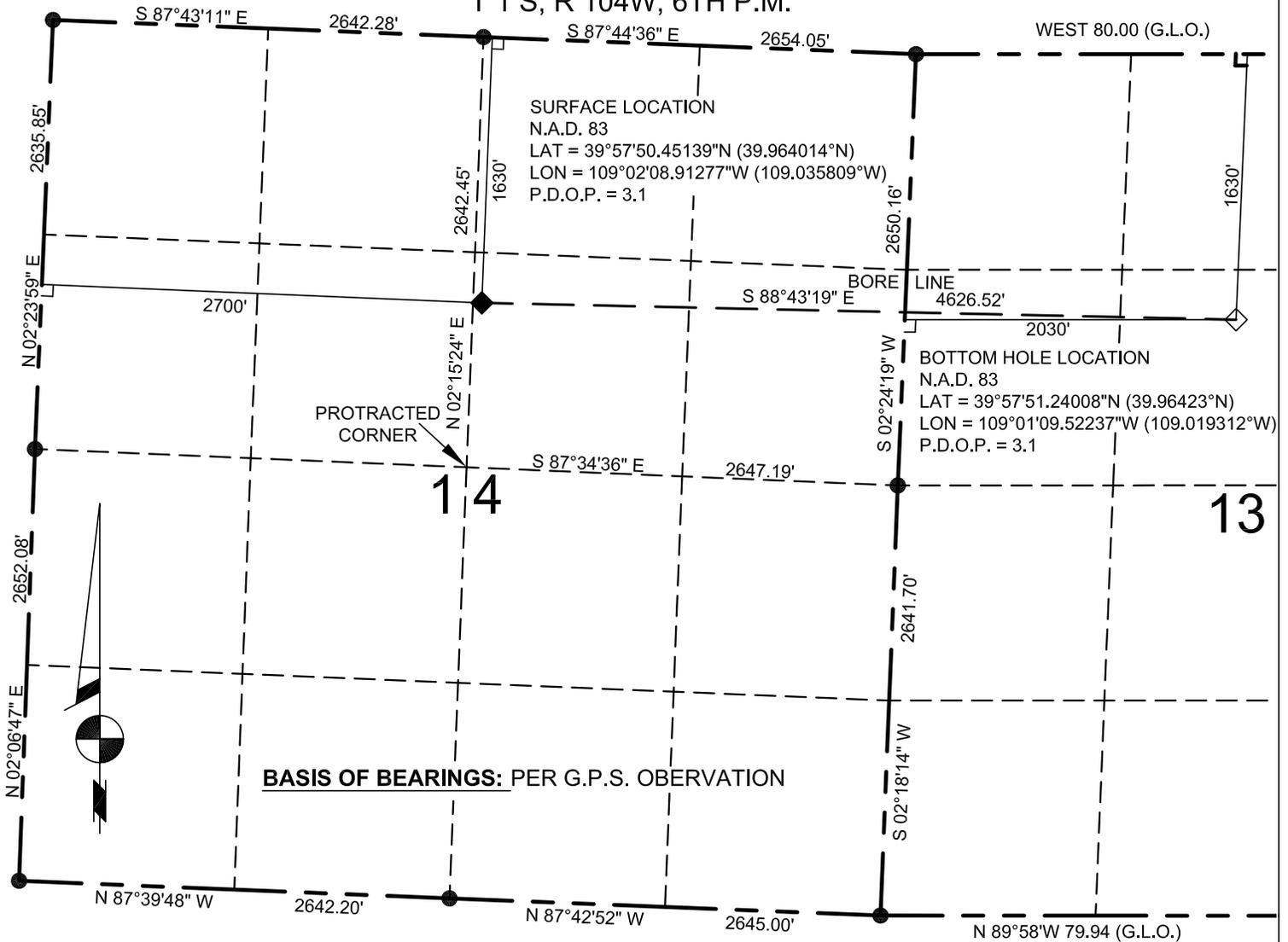
CAMERA ANGLE: WESTERLY



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LOCATION PHOTOS	MONTH OCTOBER	P3
	DAY 18	
YEAR 2012		
SURVEYED BY: C. VAN MATRE DRAWN BY: D. YOSHIDA APPROVED BY: R. GABRIEL	REVISED:	

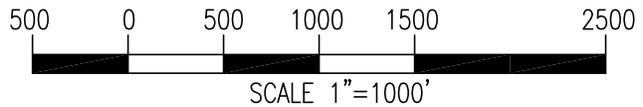
T 1 S, R 104W, 6TH P.M.



WELL: MEAGHER #14-1H TO BE LOCATED 1630' FNL AND 2700' FWL IN SECTION 14, TOWNSHIP 1 SOUTH, RANGE 104 WEST OF THE 6TH P.M. LOCATION FALLS IN: NATURAL GROUND GROUND ELEVATION = 6554' IMPROVEMENTS: NONE WITHIN 400' OF LOCATION

LEGEND:

- FOUND 2.5" BRASS B.L.M. MONUMENT
- ◆ PROPOSED WELL LOCATION
- ◇ PROPOSED BOTTOM HOLE LOCATION



NOTES:

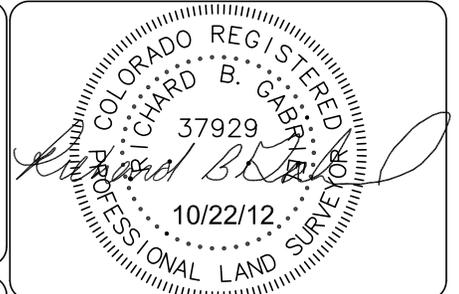
1. THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS AS SET BY THE C.O.G.C.C. RULE NO. 215.
2. ELEVATIONS SHOWN AT THE WELL HEAD, AS WELL AS HORIZONTAL CONTROL, ARE BASED ON GPS-RTK VALUES DERIVED FROM DOING 2-HOUR STATIC GPS SESSIONS AND REDUCTIONS USING O.P.U.S. SOLUTIONS USING NGS POINT ET II JEK LOCATED IN SEC. 2, T1S, R104W 6TH P.M. N.A.V.D. 88 ELEV=6109'. VERTICAL = NAVD88 HORIZONTAL = NAD83/92
3. THE BEARINGS AS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS BETWEEN THE MONUMENTS SHOWN HEREON AS FOUND IN THE FIELD DATE BELOW.
4. DISTANCES SHOWN ARE AT GROUND LEVEL, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED AT A PERPENDICULAR TO SECTION LINES.

I, RICHARD B. GABRIEL, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO:

KGH OPERARTING COMPANY THAT THE SURVEY AND WELL LOCATION CERTIFICATE SHOWN HEREON WAS DONE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE PROPOSED LOCATION OF THE WELL MEAGHER #14-1H. 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.

RICHARD B. GABRIEL P.L.S. #37929
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
 FOR AND ON BEHALF OF POWER SURVEYING CO., INC.

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 ON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.



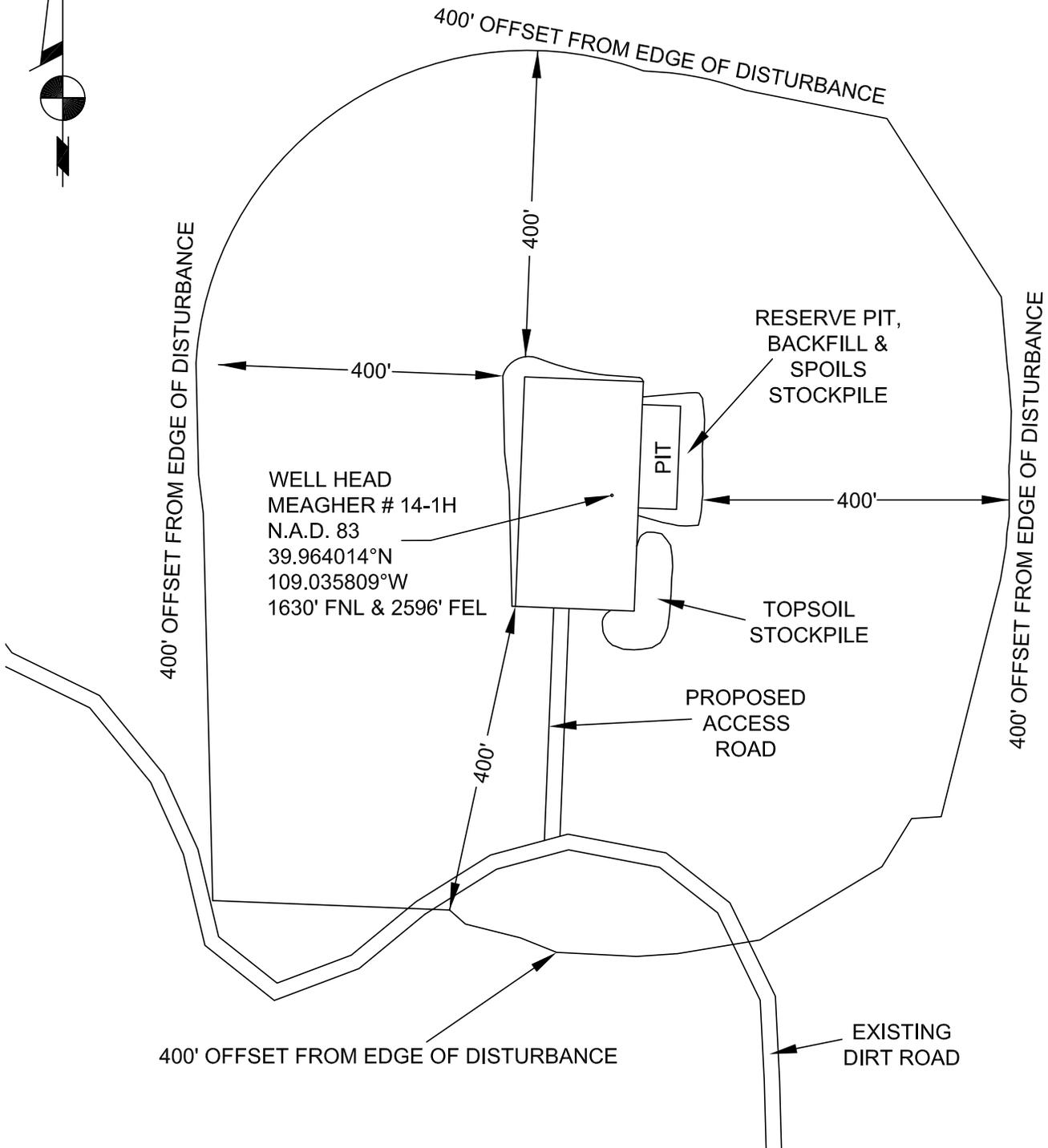
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DATE OF FIELD WORK: 10/18/12
 DATE OF COMPLETION: 10/22/12
 PROJECT NUMBER: 501-12-209

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KGH OPERATING COMPANY

ADDENDUM TO LEGAL PLAT FOR
 MEAGHER #14-1H
 LOCATED IN RIO BLANCO COUNTY, COLORADO
 SECTION 14, T1S, R104W, 6TH P.M.
 1630' FNL & 2700' FWL



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ADDENDUM TO LEGAL PLAT		SCALE: 1" = 200'	P5
		DATE: 10/22/12	
SURVEYED BY: C. VAN MATRE DRAWN BY: D. YOSHIDA APPROVED BY: R. GABRIEL	REVISED:		

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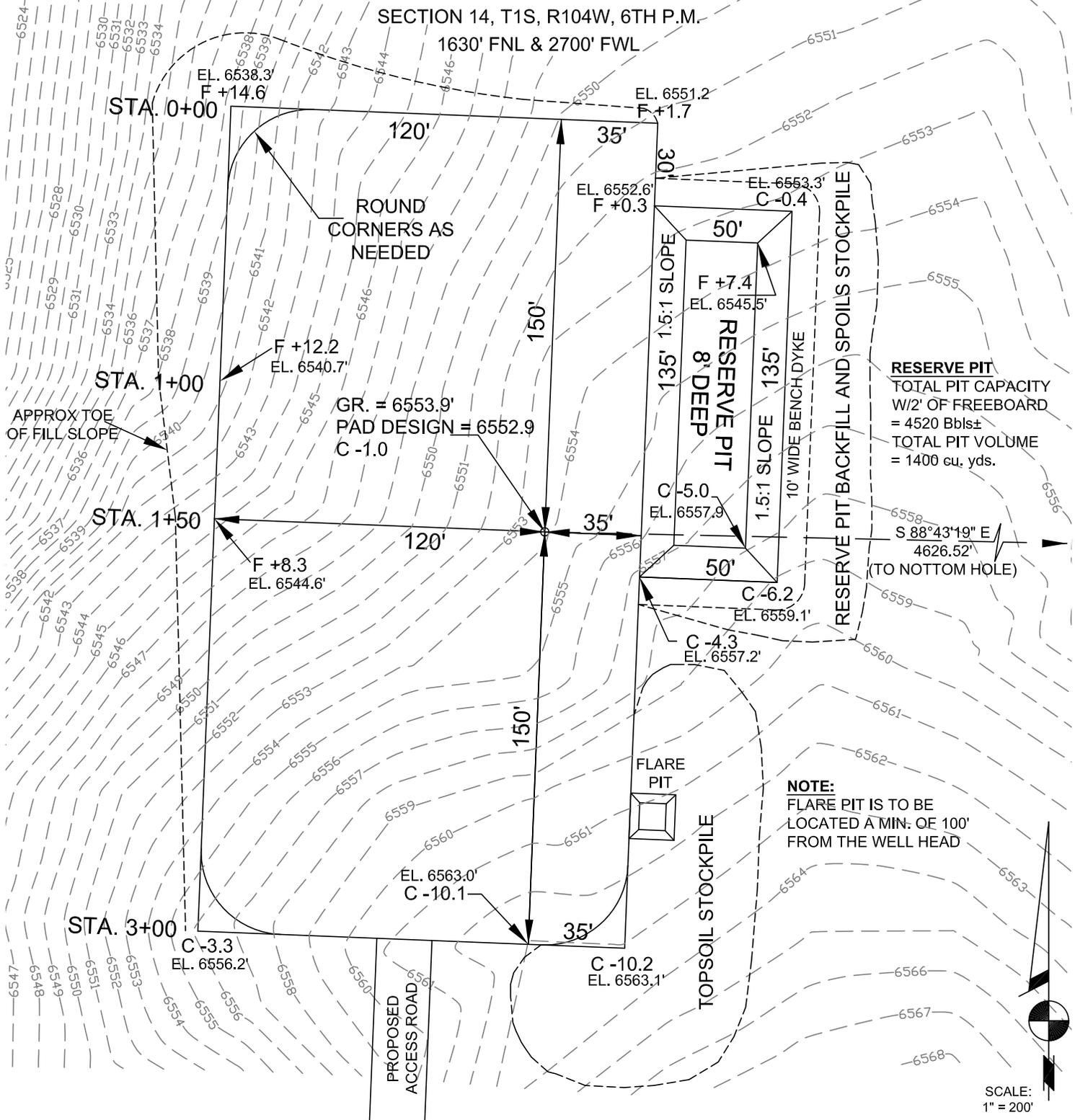
CONSTRUCTION LAYOUT FOR

MEAGHER #14-1H

LOCATED IN RIO BLANCO COUNTY, COLORADO

SECTION 14, T1S, R104W, 6TH P.M.

1630' FNL & 2700' FWL



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CONSTRUCTION LAYOUT

SURVEYED BY: C. VAN MATRE
DRAWN BY: D. YOSHIDA
APPROVED BY: R. GABRIEL

REVISED:

SCALE:
1" = 200'

DATE:
10/22/12

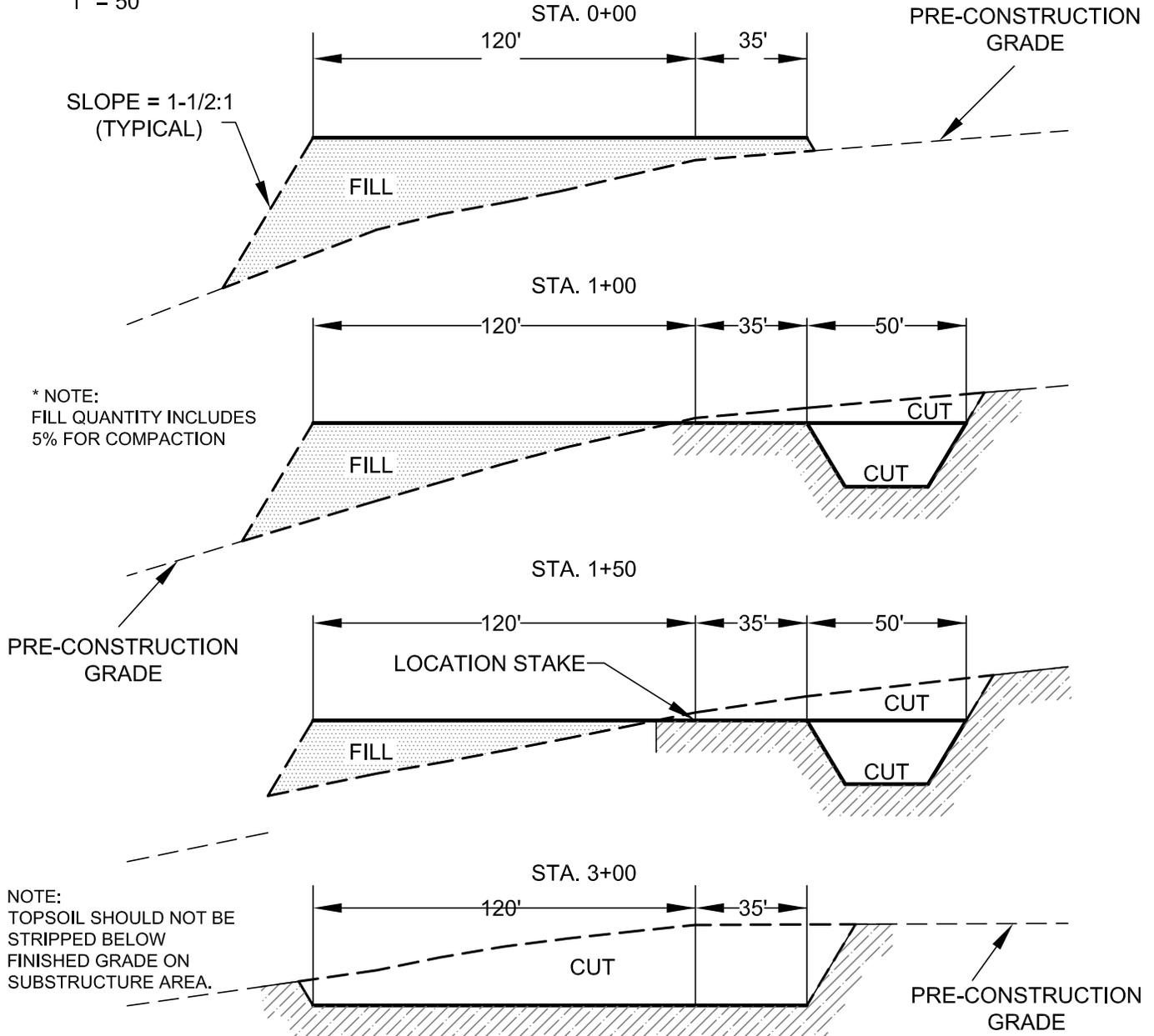
P6

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CONSTRUCTION LAYOUT CROSS SECTIONS FOR
 MEAGHER #14-1H
 LOCATED IN RIO BLANCO COUNTY, COLORADO
 SECTION 14, T1S, R104W, 6TH P.M.
 1630' FNL & 2700' FWL

FIGURE #2

1" = 20'
 CROSS SECTION SCALE
 1" = 50'



APPROXIMATE YARDAGES
 (6") TOPSOIL STRIPPING = 1,360 CU. YDS.
 REMAINING LOCATION = 4,761 CU. YDS.
 TOTAL CUT = 6,121 CU. YDS
 FILL = 4,606 CU. YDS

APPROXIMATE ACREAGES
 WELL SITE DISTURBANCE = ±1.7 ACRES
 ACCESS ROAD DISTURBANCE = ± 0.135 ACRES
 TOTAL = ±1.835 ACRES

EXCESS MATERIAL = 1,515 CU. YDS.
 TOPSOIL & PIT BACKFILL = 1,515 CU. YDS (1/2 PIT VOL.)
 EXCESS UNBALANCE = 0 CU. YDS (AFTER INTERIM REHABILITATION)



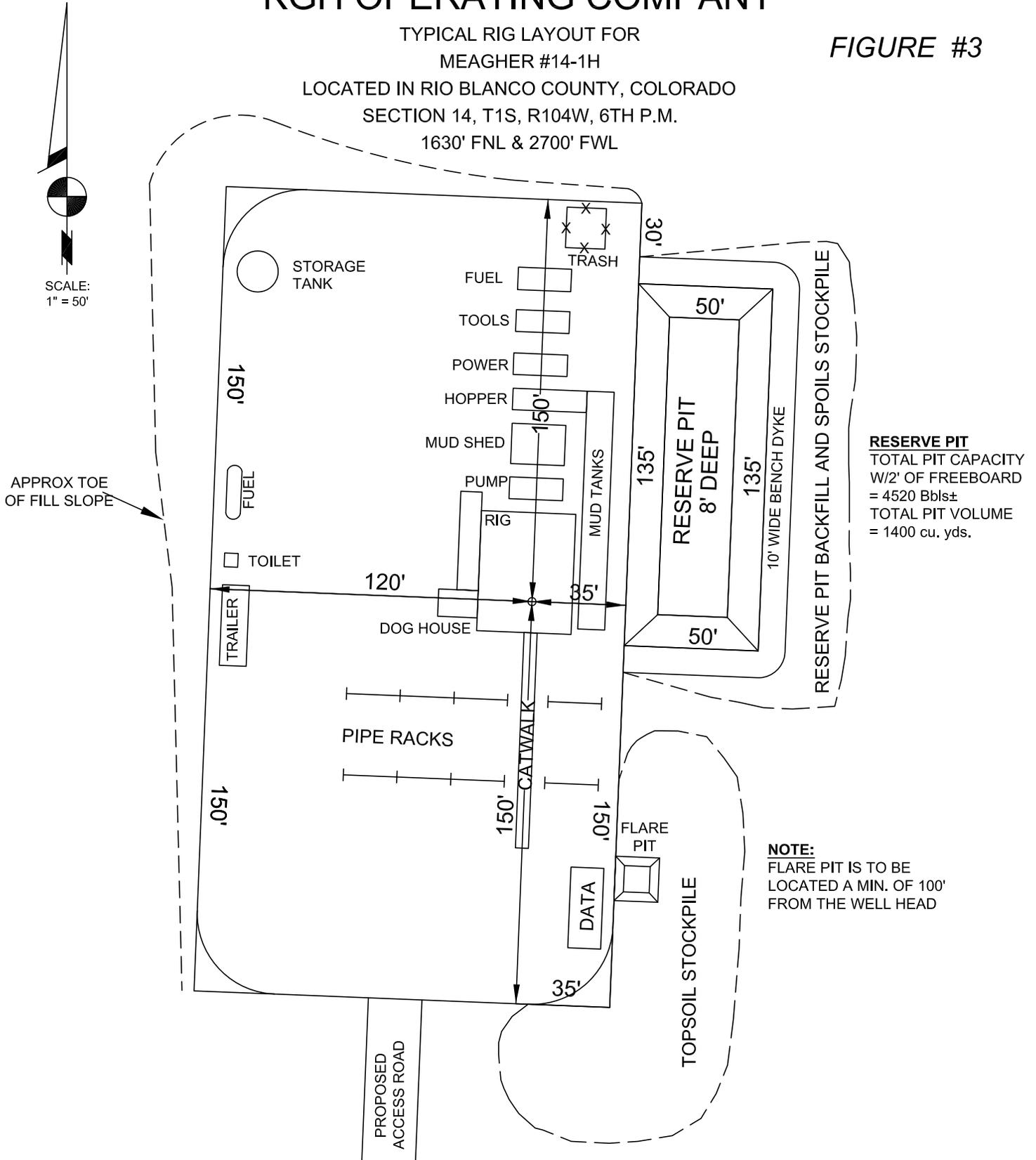
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PAD CROSS SECTIONS		SCALE: HORIZ = 1" = 50' VERT = 1" = 20'	P7
		DATE: 10/22/12	
SURVEYED BY: C. VAN MATRE DRAWN BY: D. YOSHIDA APPROVED BY: R. GABRIEL	REVISED:		

KGH OPERATING COMPANY

TYPICAL RIG LAYOUT FOR
 MEAGHER #14-1H
 LOCATED IN RIO BLANCO COUNTY, COLORADO
 SECTION 14, T1S, R104W, 6TH P.M.
 1630' FNL & 2700' FWL

FIGURE #3



RESERVE PIT
 TOTAL PIT CAPACITY
 W/2' OF FREEBOARD
 = 4520 Bbls±
 TOTAL PIT VOLUME
 = 1400 cu. yds.

NOTE:
 FLARE PIT IS TO BE
 LOCATED A MIN. OF 100'
 FROM THE WELL HEAD



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TYPICAL RIG LAYOUT

SCALE:
 1" = 50'

DATE:
 10/22/12

SURVEYED BY: C. VAN MATRE
 DRAWN BY: D. YOSHIDA
 APPROVED BY: R. GABRIEL

REVISED:

P8

KGH OPERATING COMPANY

DIRECTIONS TO SITE

MEAGHER #14-1H

LOCATED IN RIO BLANCO COUNTY, COLORADO

SECTION 14, T1S, R104W, 6TH P.M.

1630' FNL & 2700' FWL

PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION FROM RANGELY, COLORADO ALONG COUNTY ROAD 2 APPROXIAMTELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 9.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY, THEN NORTHERLY DIRECTION APPROXIAMTELY 1.4 MILES TO A GATE AT THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST, PROCEED THROUGH GATE NORTHWESTERLY FOR APPROXIMATELY 0.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD FOR THE MEAGHER #14-1H LOCATION, TURN RIGHT OFF OF EXISTING ROAD AND PROCEED NORTH FOR APPROXIAMTELY 295 FEET TO THE SOUTH EDGE OF THE MEAGHER #14-1H PAD.

TOTAL DISTANCE FROM RANGELY, COLORADO TO THE PROPOSED LOCATION IS APPROXIMATELY 23.6 MILES.



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LOCATION DRAWING	SCALE: 1" = 1000'	P10
	DATE: 10/22/12	
SURVEYED BY: C. VAN MATRE DRAWN BY: D. YOSHIDA APPROVED BY: R. GABRIEL	REVISED:	

KGH OPERATING COMPANY

ACCESS ROAD MAP 1 OF 2

MEAGHER #14-1H

LOCATED IN RIO BLANCO COUNTY, COLORADO

SECTION 14, T1S, R104W, 6TH P.M.

1630' FNL & 2700' FWL



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ACCESS ROAD MAP

SCALE:
1" = 6000'

DATE:
10/22/12

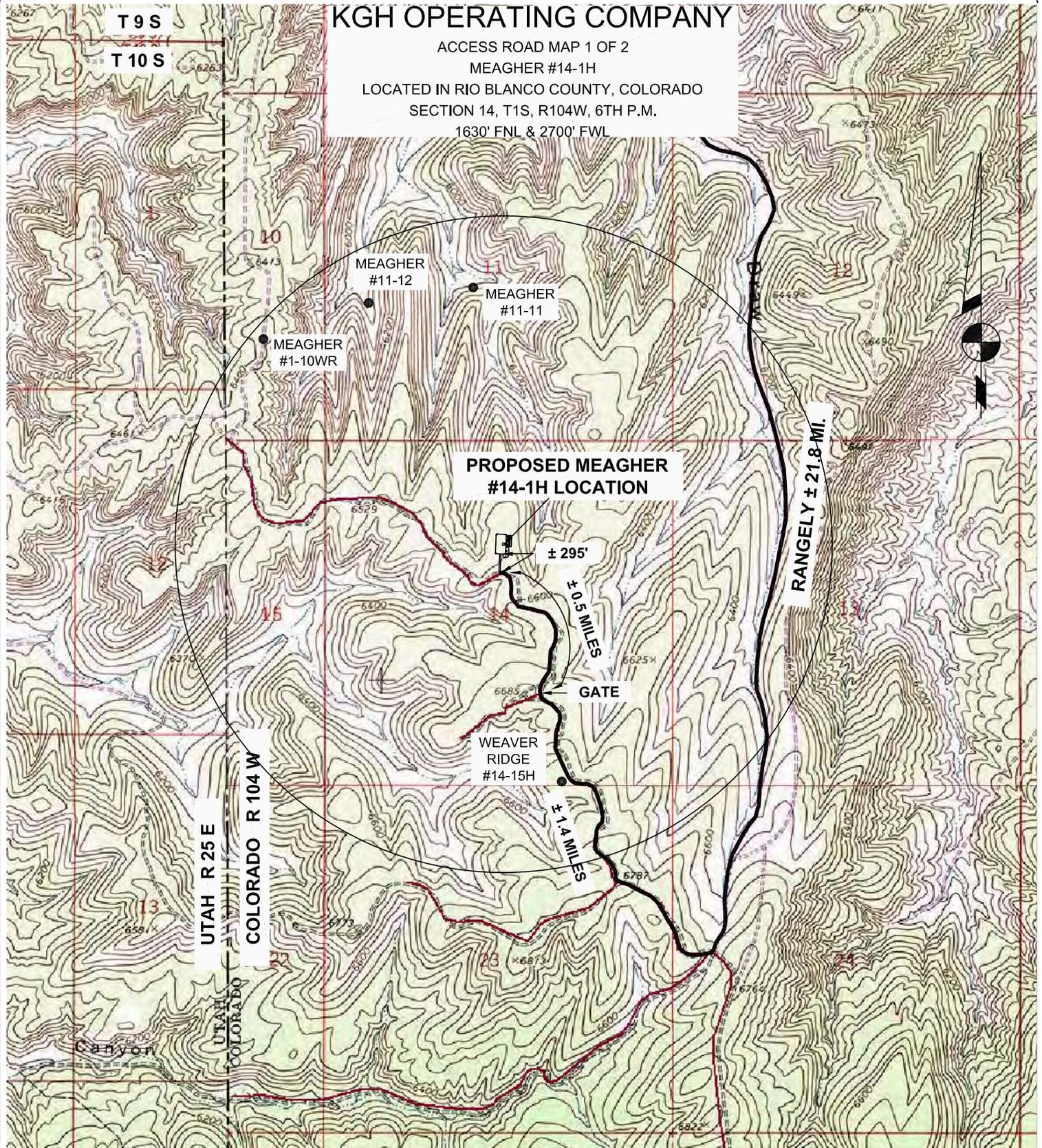
P11

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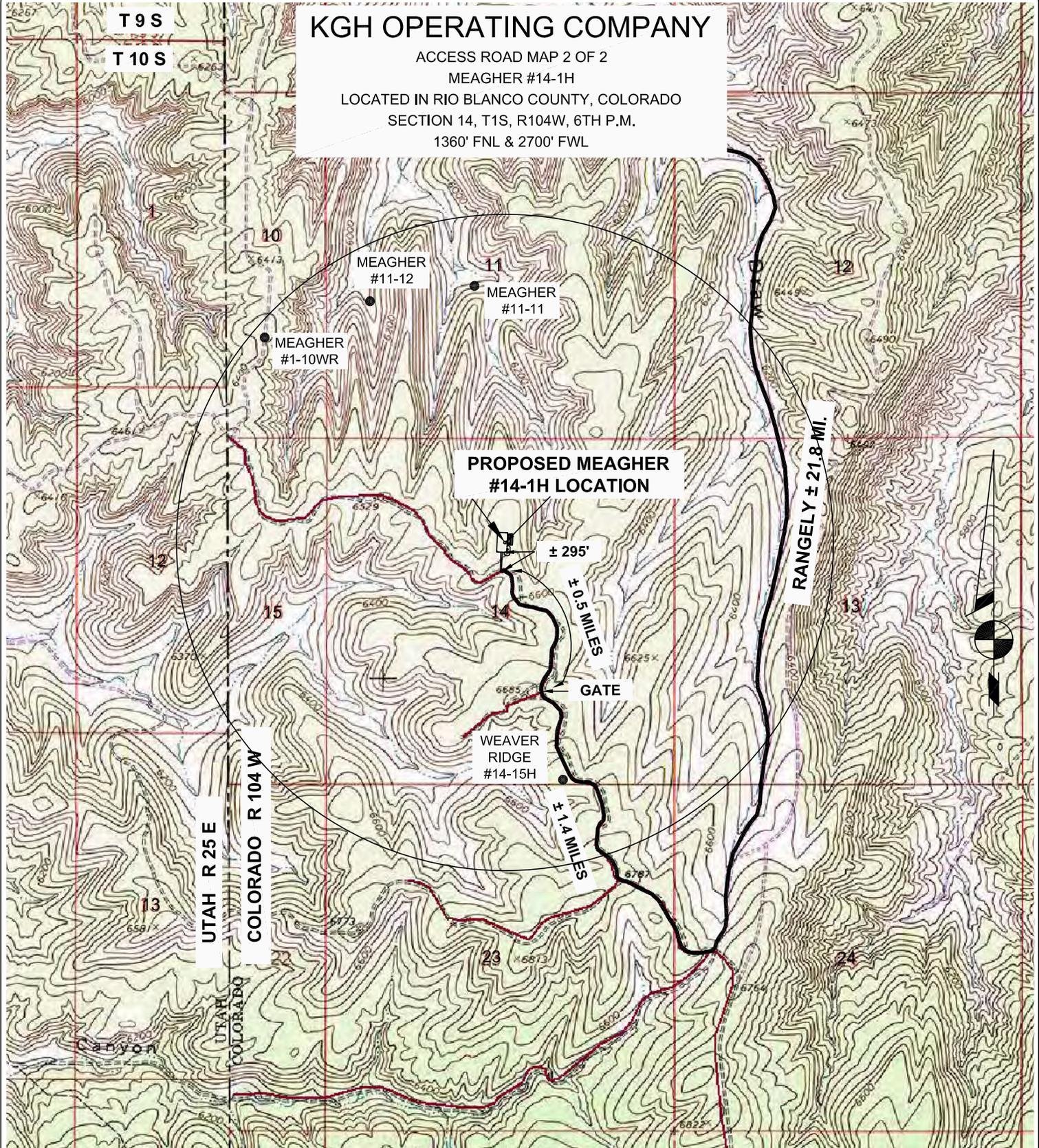
ACCESS ROAD MAP 1 OF 2
 MEAGHER #14-1H
 LOCATED IN RIO BLANCO COUNTY, COLORADO
 SECTION 14, T1S, R104W, 6TH P.M.
 1630' FNL & 2700' FWL



ACCESS ROAD MAP MEAGHER #14-1H 1630' FNL & 2700' FWL LOCATED IN RIO BLANCO COUNTY, COLORADO SECTION 14, T1S, R104W, 6TH P.M.		SCALE: 1" = 1000'	P12
		DATE: 10/22/12	
SURVEYED BY: C. VAN MATRE DRAWN BY: D. YOSHIDA APPROVED BY: R. GABRIEL	REVISED:		

KGH OPERATING COMPANY

ACCESS ROAD MAP 2 OF 2
 MEAGHER #14-1H
 LOCATED IN RIO BLANCO COUNTY, COLORADO
 SECTION 14, T1S, R104W, 6TH P.M.
 1360' FNL & 2700' FWL



● = PRODUCING WELLS



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TOPOGRAPHIC MAP

MEAGHER #14-1H
 1630' FNL & 2700' FWL
 LOCATED IN RIO BLANCO COUNTY, COLORADO
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REVISED:

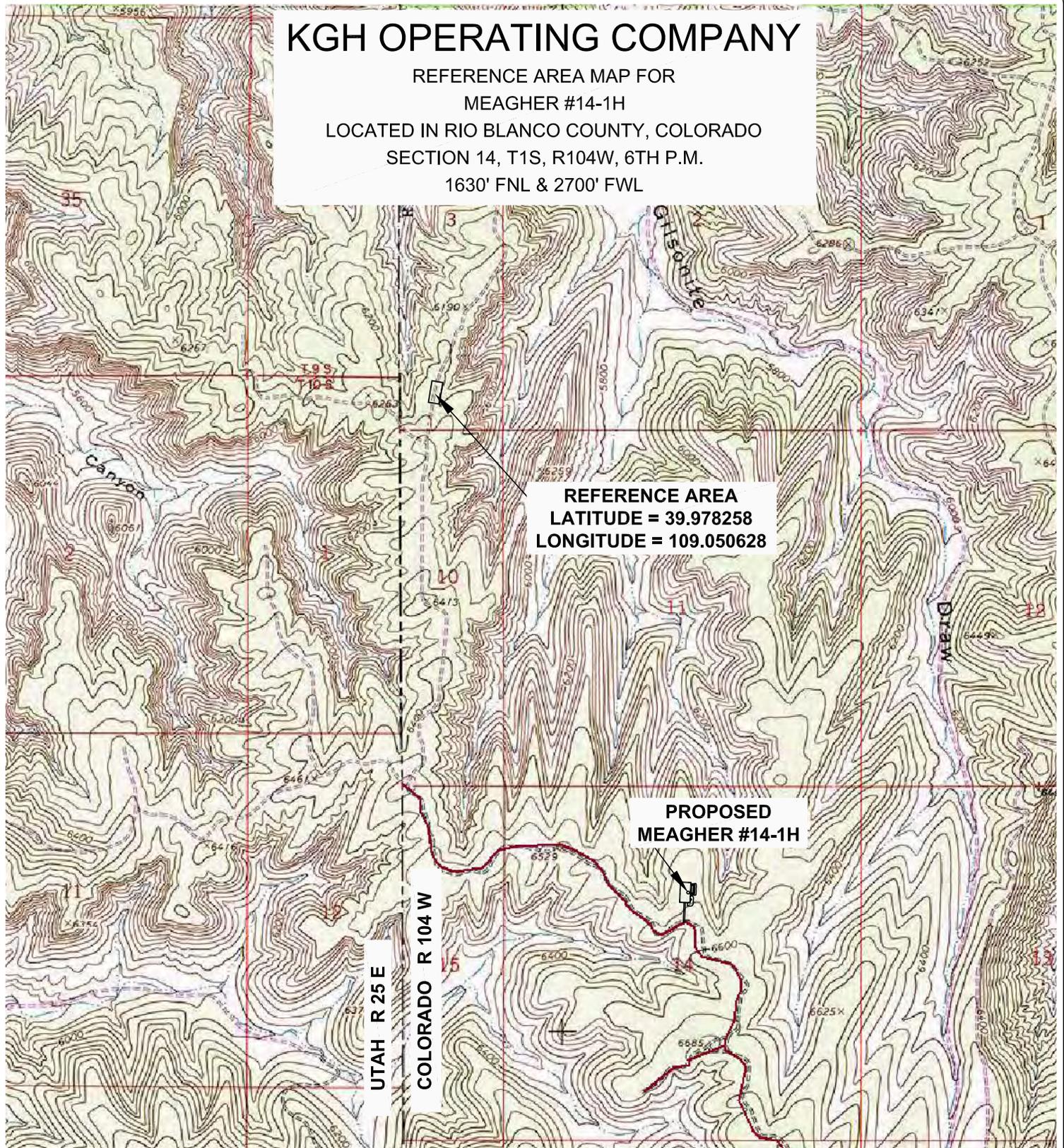
SCALE:
 1" = 2000'

DATE:
 10/22/12

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KGH OPERATING COMPANY

REFERENCE AREA MAP FOR
MEAGHER #14-1H
LOCATED IN RIO BLANCO COUNTY, COLORADO
SECTION 14, T1S, R104W, 6TH P.M.
1630' FNL & 2700' FWL



REFERENCE AREA
LATITUDE = 39.978258
LONGITUDE = 109.050628

PROPOSED
MEAGHER #14-1H

UTAH R 25 E
COLORADO R 104 W



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REFERENCE AREA

SCALE:
N.T.S.

DATE:
10/22/12

P14

SURVEYED BY: C. VAN MATRE
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REVISED:

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REFERENCE AREA PHOTOS FOR
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PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE : NORTHERLY



PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE : SOUTHERLY



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PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE: EASTERLY



PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE: WESTERLY



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