

R. 97 W.

**POWDER
WASH 19-1**

**UNGRADED ELEVATION:
6781.3'**

BASIS OF ELEVATION: USGS SPOT ELEVATION
LOCATED AT THE SE CORNER OF SECTION 19,
T12N, R97W
ELEVATION: 6604'

2 1/2" AC
ON 5/8" REBAR
3" ABOVE
GROUND
PLS 17492



GRID NORTH

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

T. 12 N.

SHL

LATITUDE (NAD 83)

NORTH 40.981498 DEG.

LONGITUDE (NAD 83)

WEST 108.330040 DEG.

NORTHING (NAD 83)

1612883.95

EASTING (NAD 83)

2218698.63

LATITUDE (NAD 27)

NORTH 40.981534 DEG.

LONGITUDE (NAD 27)

WEST 108.329387 DEG.

NORTHING (NAD 27)

612881.20

EASTING (NAD 27)

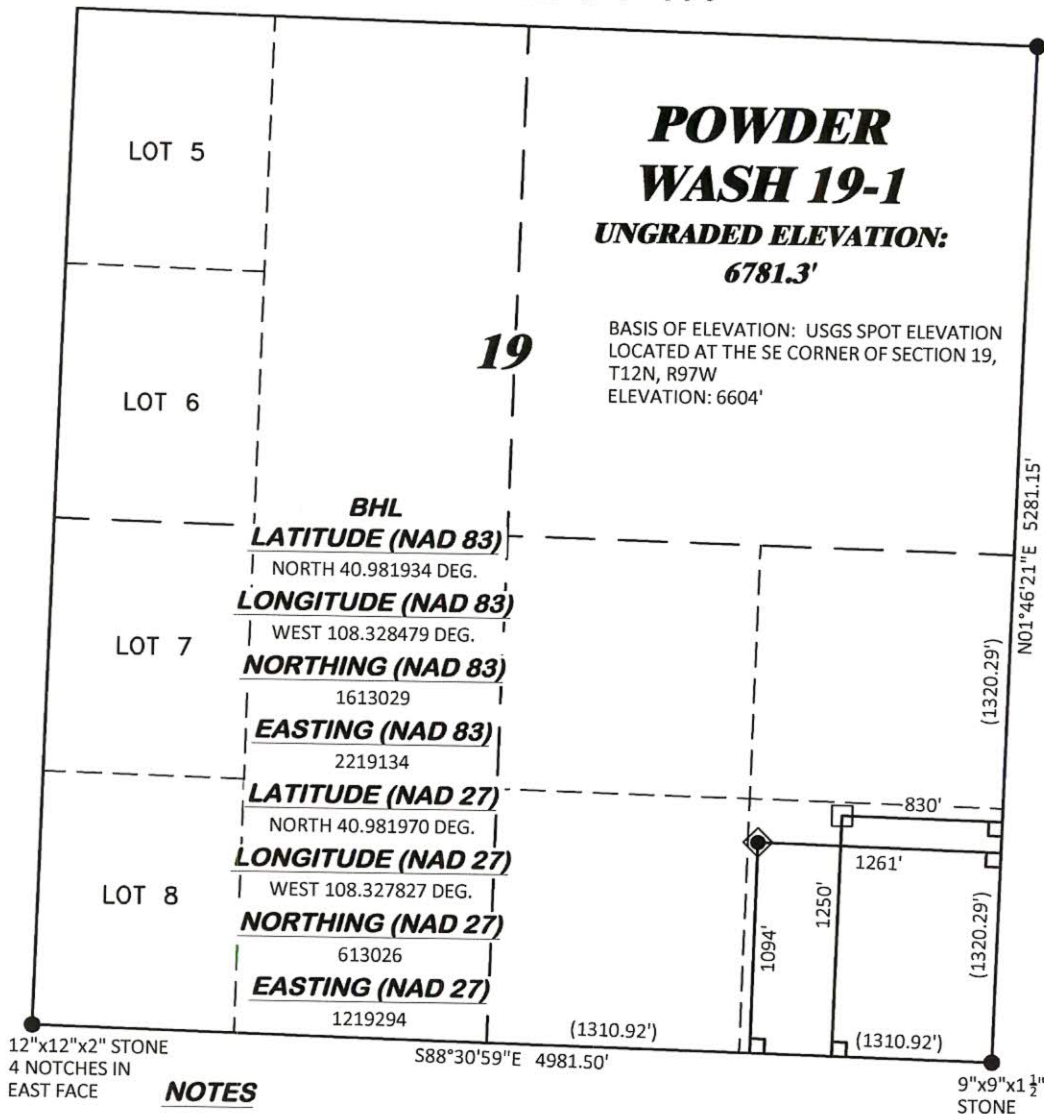
1218858.09

BASIS OF BEARING/DATUM

SPCS COLORADO NORTH ZONE NAD 27
BASED ON GPS OBSERVATIONS ON DRG
CONTROL POINT CP 25-12-98 HAVING A
POSITION OF:

NAD83
LAT 40° 58' 03.81" NORTH
LONG 108° 21' 11.24" WEST

THE SOUTH LINE OF SECTION 19,
MONUMENTED BY STONES AND BEARING
S 88°30'59" E.



NOTES

1. GPS OPERATOR LITTLE OBSERVED A PDOP OF 2.7.
2. ALL GPS OBSERVATIONS ARE IN COMPLIANCE WITH COGCC RULE No.215.
3. NO EXISTING IMPROVEMENTS WITHIN 500' OF LOCATION. SEE EXHIBIT 2D.
4. SURROUNDING SURFACE USE IS NATIVE BRUSH, NON CROP RANGELAND.

LEGEND

- ◆ WELL LOCATION
- APPROX. BHL
- └ DENOTES 90° TIE
- FOUND MONUMENT

SURVEYOR'S STATEMENT

I, DAVID E. HENDERHAN, AN EMPLOYEE AND AGENT ON BEHALF OF D.R. GRIFFIN & ASSOCIATES, INC. STATE THE PLAT HEREON IS A CORRECT REPRESENTATION OF A SURVEY MADE UNDER MY SUPERVISION ON THE 3rd DAY OF DECEMBER, 2015 OF THE SHOWN POWDER WASH 19-1 AND THAT THE LOCATION HAS BEEN STAKED ON THE GROUND.

Notice: In accordance with Colorado State Law, any legal action based upon any defect in this survey plat must commence within three (3) years after first discovery of such defect. In no event, may any action based upon any defect in this survey plat be commenced more than ten (10) years from the date of certification shown hereon.

POWDER WASH 19-1



COLORADO PLS No. 38109



(307) 362-5028

1414 ELK ST., ROCK SPRINGS, WY 82901

DRAWN: 10/30/2015 - TCM

SCALE: 1" = 1000'

REVISED: 12/2/2015 - TCM

DRG JOB No. 20958

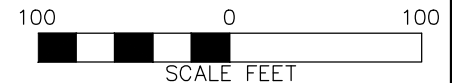
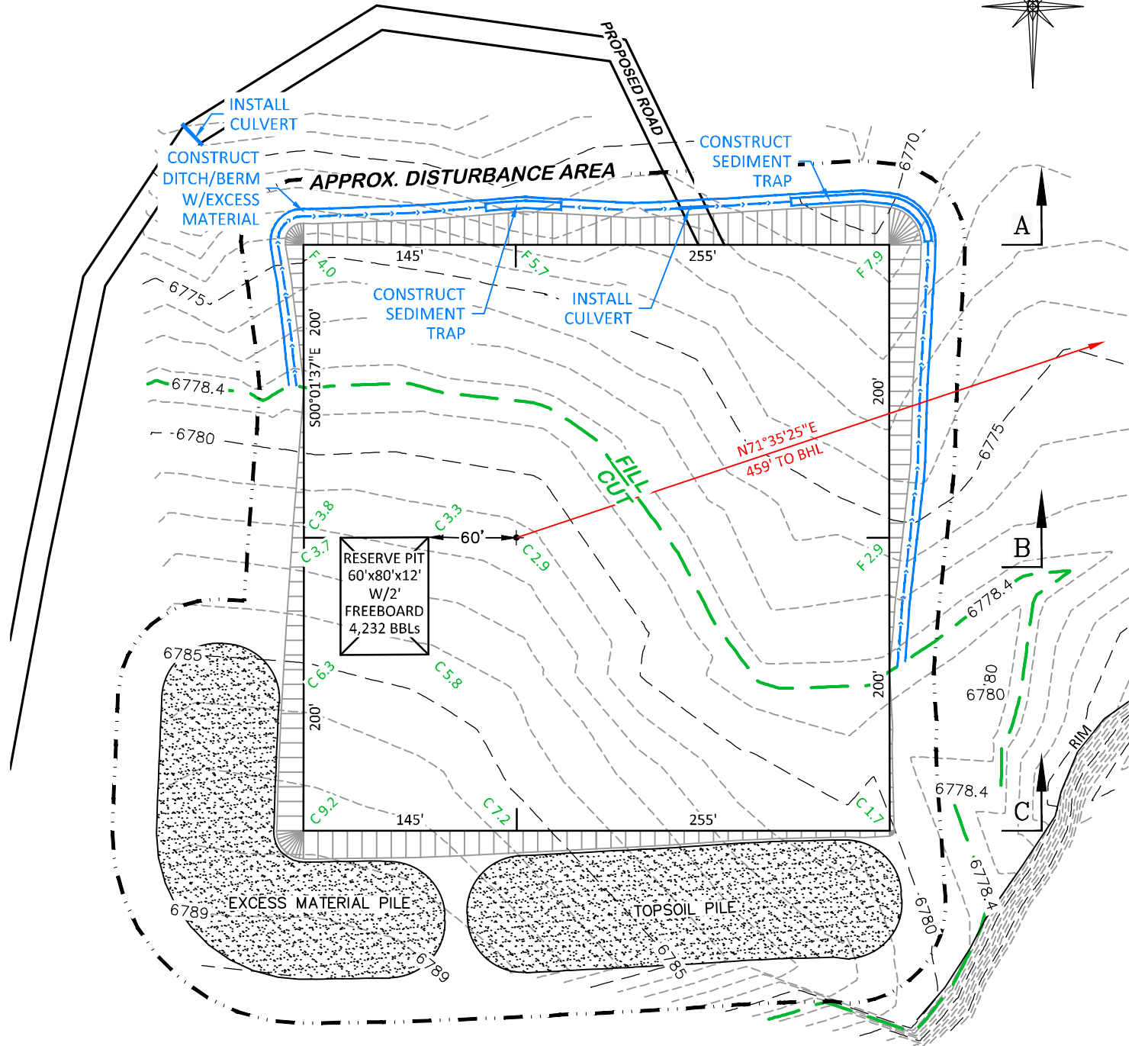
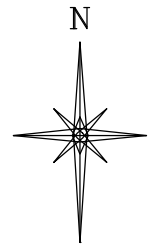
MOVED SHL & PIT

EXHIBIT 1

**PLAT OF DRILLING LOCATION IN
SESE, SECTION 19, FOR
QEP ENERGY COMPANY**

**1094' F/SL, & 1261' F/EL, SECTION 19,
T. 12 N., R. 97 W., 6TH P.M.,
MOFFAT COUNTY, COLORADO**

UNGRADED ELEVATION: 6781.3'
 FINAL ELEVATION: 6778.4'
 PROPOSED AREA OF DISTURBANCE: 6.8± ACRES
 DRAINS TO POWDER WASH



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

POWDER WASH 19-1

CONSTRUCTION LAYOUT DRAWING 1 OF 5

**QEP ENERGY COMPANY
 POWDER WASH 19-1
 SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M.,
 MOFFAT COUNTY, COLORADO**

ESTIMATED EARTHWORK

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

ITEM	CUT	FILL	TOPSOIL	EXCESS
PAD	12,586 CY	9,216 CY	3,358 CY	12 CY
PIT	1,301 CY			1,301 CY
TOTALS	13,887 CY	9,216 CY	3,358 CY	1,313 CY

DRAWN: 10/30/2015 - TCM

SCALE: 1" = 100'

REVISED: 12/2/2015 - TCM

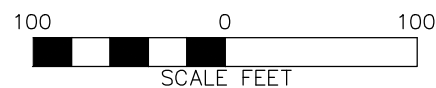
DRG JOB No. 20958

MOVED SHL & PIT

EXHIBIT 2

RIG LAYOUT

POWDER WASH 19-1



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

(307) 362-5028

1414 ELK ST., ROCK SPRINGS, WY 82901

SCALE: 1" = 100'

DRG JOB No. 20958

EXHIBIT 2A

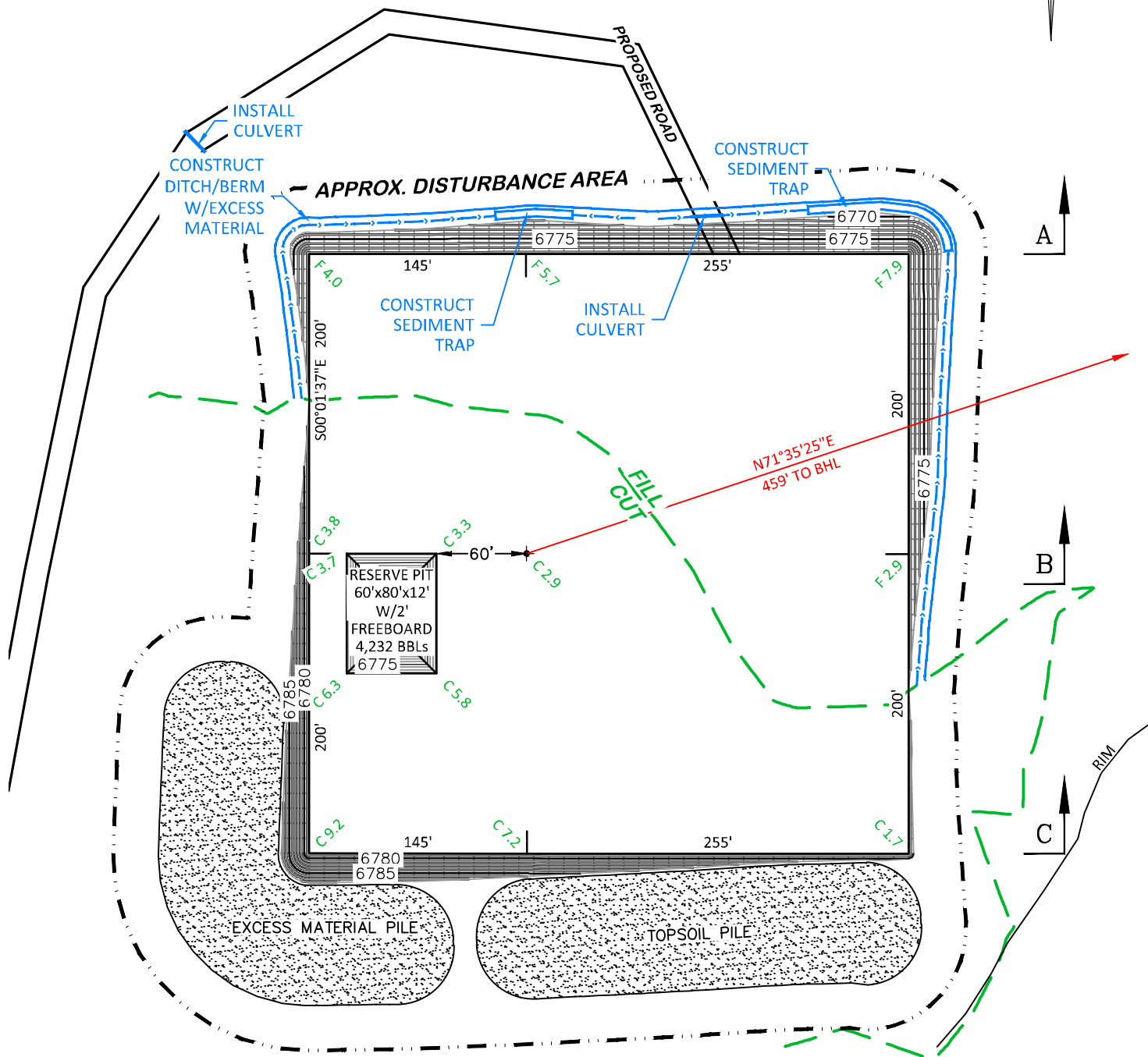
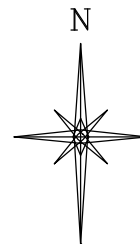
CONSTRUCTION LAYOUT DRAWING 2 OF 5

RIG LAYOUT
QEP ENERGY COMPANY
POWDER WASH 19-1

**SESE, SECTION 19, T.12 N., R.97 W., 6th P.M.,
MOFFAT COUNTY, COLORADO**

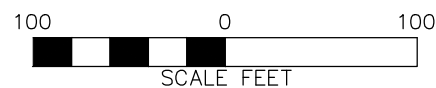
UNGRADED ELEVATION: 6781.3'
 FINAL ELEVATION: 6778.4'
 PROPOSED AREA OF DISTURBANCE: 6.8± ACRES
 DRAINS TO POWDER WASH

DESIGN CONTOURS



**BEFORE DIGGING
 CALL FOR
 UTILITY LINE LOCATION**

POWDER WASH 19-1



RIFFIN & ASSOCIATES, INC.

(307) 362-5028

1414 ELK ST., ROCK SPRINGS, WY 82901

DRAWN: 10/30/2015 - TCM

SCALE: 1" = 100'

REVISED: 12/2/2015 - TCM

DRG JOB No. 20958

MOVED SHL & PIT

EXHIBIT 2B

CONSTRUCTION LAYOUT DRAWING 3 OF 5

**DESIGN CONTOURS
 QEP ENERGY COMPANY
 POWDER WASH 19-1**

**SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M.,
 MOFFAT COUNTY, COLORADO**

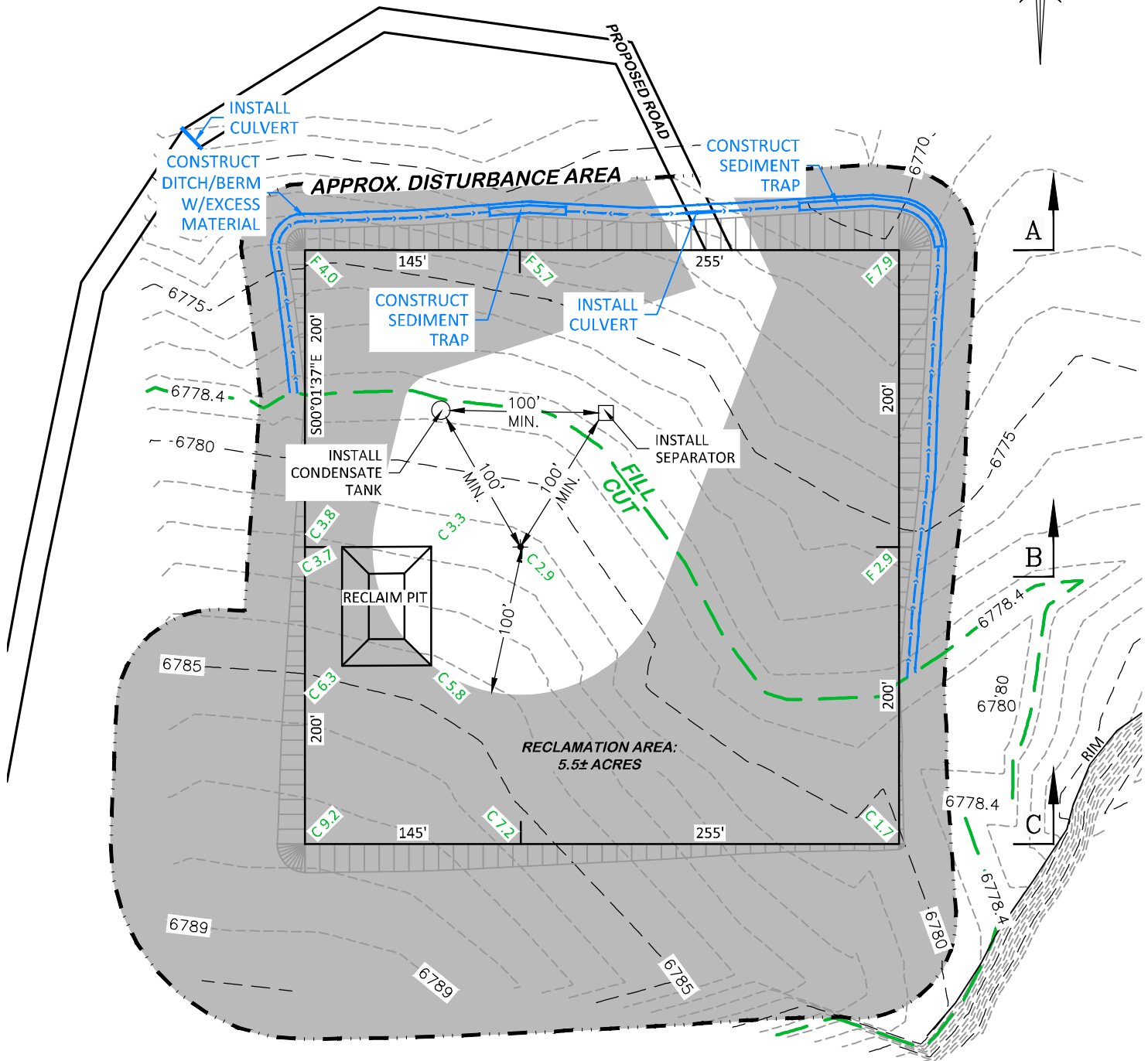
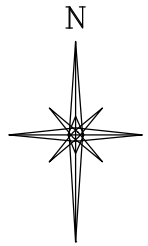
UNGRADED ELEVATION: 6781.3'

FINAL ELEVATION: 6778.4'

PROPOSED AREA OF DISTURBANCE: 6.8± ACRES

DRAINS TO POWDER WASH

PROPOSED RECLAMATION



**BEFORE DIGGING
CALL FOR
UTILITY LINE LOCATION**

POWDER WASH 19-1

100 0 100
SCALE FEET



DRG RIFFIN & ASSOCIATES, INC.

(307) 362-5028

1414 ELK ST., ROCK SPRINGS, WY 82901

DRAWN: 10/30/2015 - TCM

SCALE: 1" = 100'

REVISED: 12/2/2015 - TCM

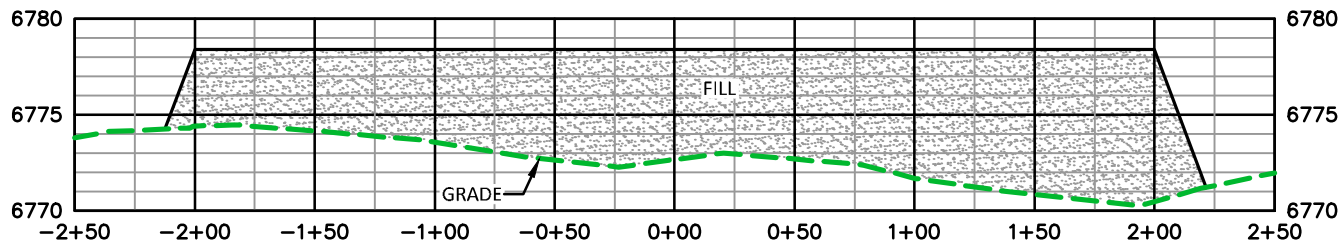
DRG JOB No. 20958

MOVED SHL & PIT

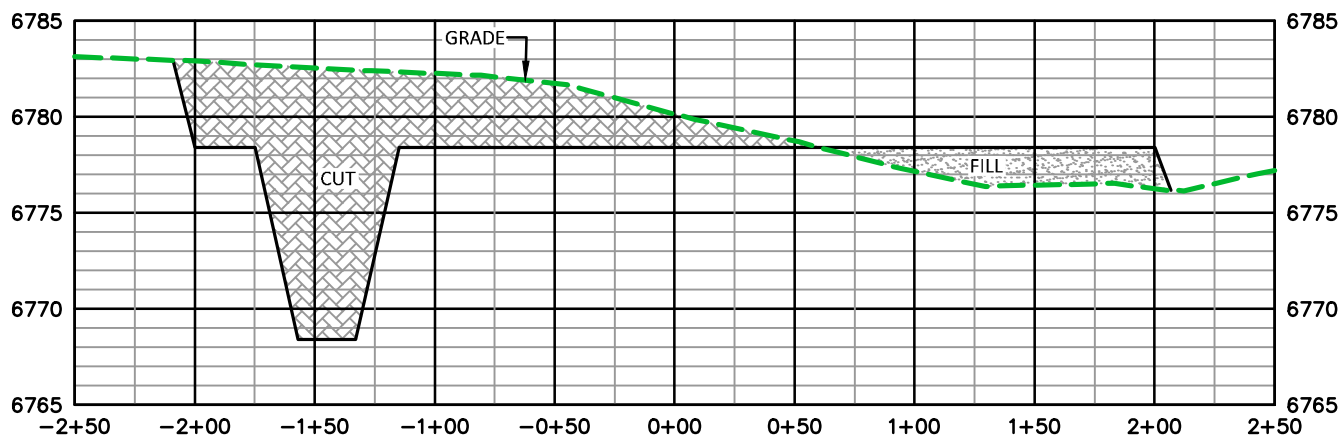
EXHIBIT 2C

CONSTRUCTION LAYOUT DRAWING 4 OF 5

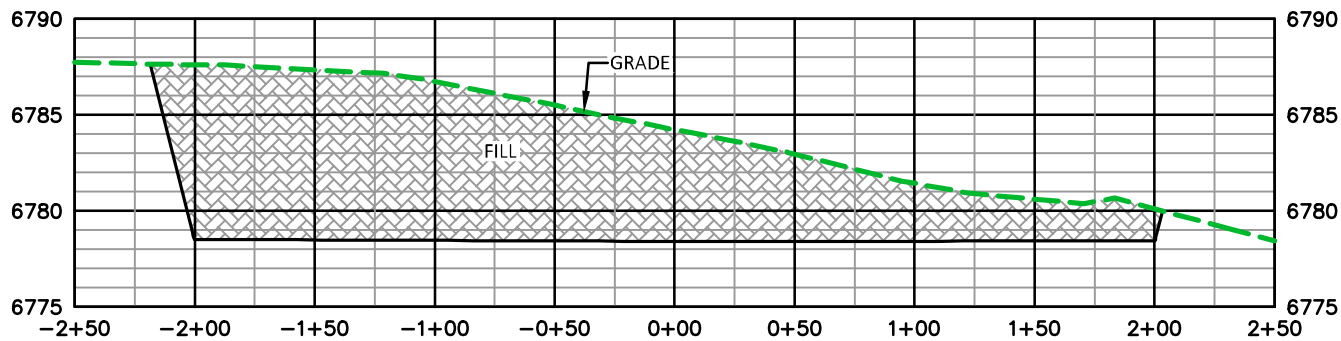
**PROPOSED RECLAMATION
QEP ENERGY COMPANY
POWDER WASH 19-1
SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M.,
MOFFAT COUNTY, COLORADO**



A



B



C

POWDER WASH 19-1



RIFFIN & ASSOCIATES, INC.

(307) 362-5028

1414 ELK ST., ROCK SPRINGS, WY 82901

DRAWN: 10/30/2015 - TCM

SCALE: 1" = 80' HORZ. 1" = 10' VERT.

REVISED: 12/2/2015 - TCM

DRG JOB No. 20958

MOVED SHL & PIT

EXHIBIT 3

CONSTRUCTION LAYOUT DRAWING 5 OF 5

QEP ENERGY COMPANY

POWDER WASH 19-1

**SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M.,
MOFFAT COUNTY, COLORADO**

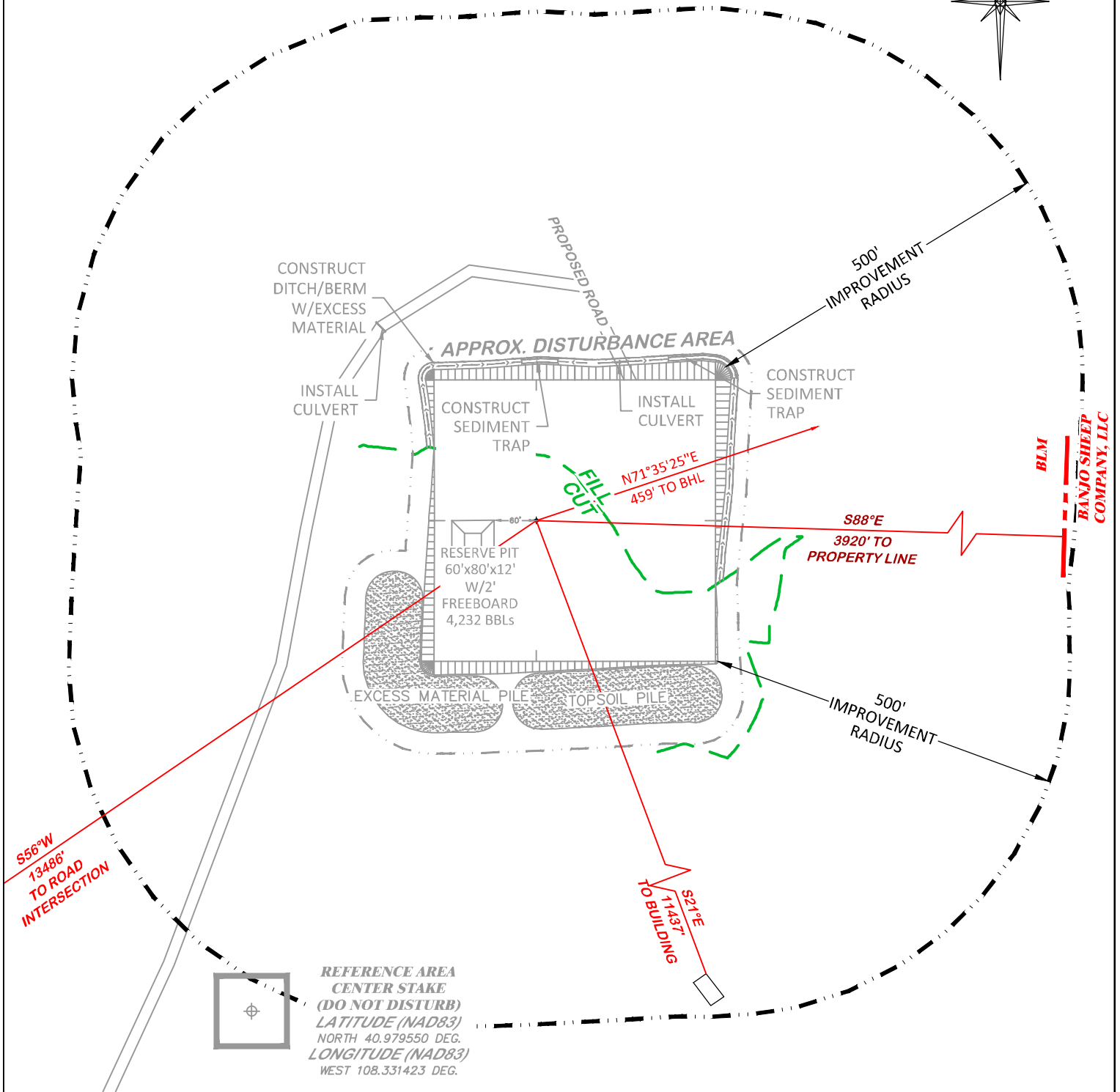
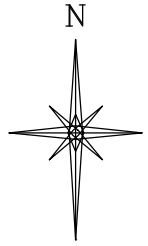
UNGRADED ELEVATION: 6781.3'

FINAL ELEVATION: 6778.4'

PROPOSED AREA OF DISTURBANCE: 6.8± ACRES

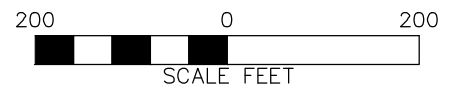
DRAINS TO POWDER WASH

LOCATION DRAWING



BEFORE DIGGING
CALL FOR
UTILITY LINE LOCATION

POWDER WASH 19-1



RIFFIN & ASSOCIATES, INC.

(307) 362-5028

1414 ELK ST., ROCK SPRINGS, WY 82901

DRAWN: 10/30/2015 - TCM

SCALE: 1" = 200'

REVISED: 12/2/2015 - TCM

DRG JOB No. 20958

MOVED SHL & PIT

EXHIBIT 2D

LOCATION DRAWING

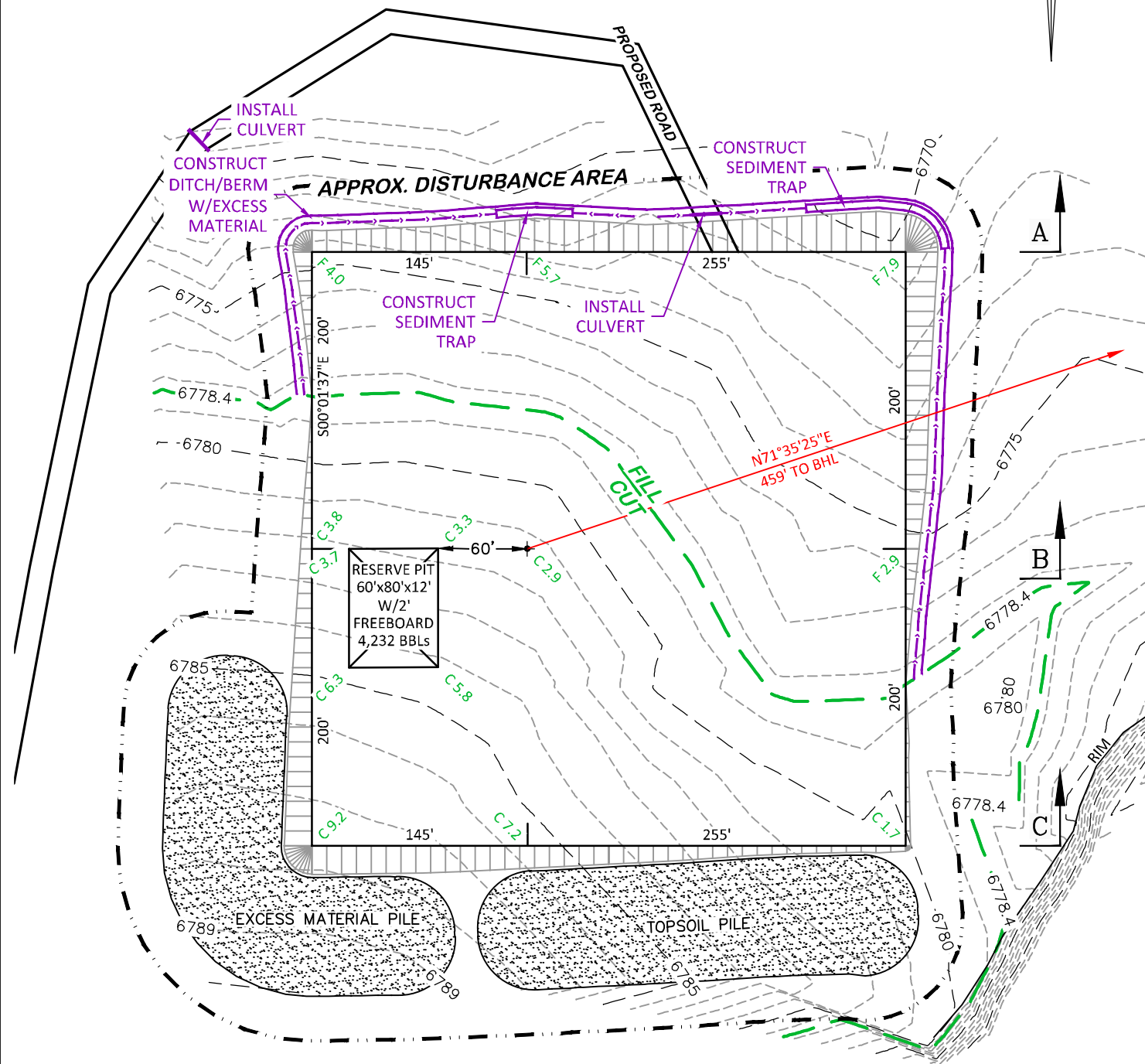
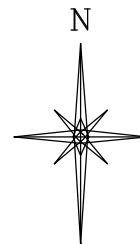
QEP ENERGY COMPANY

POWDER WASH 19-1

**SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M.,
MOFFAT COUNTY, COLORADO**

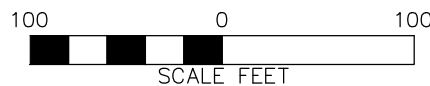
UNGRADED ELEVATION: 6781.3'
 FINAL ELEVATION: 6778.4'
 PROPOSED AREA OF DISTURBANCE: 6.8± ACRES
 DRAINS TO POWDER WASH

STORMWATER BMP's



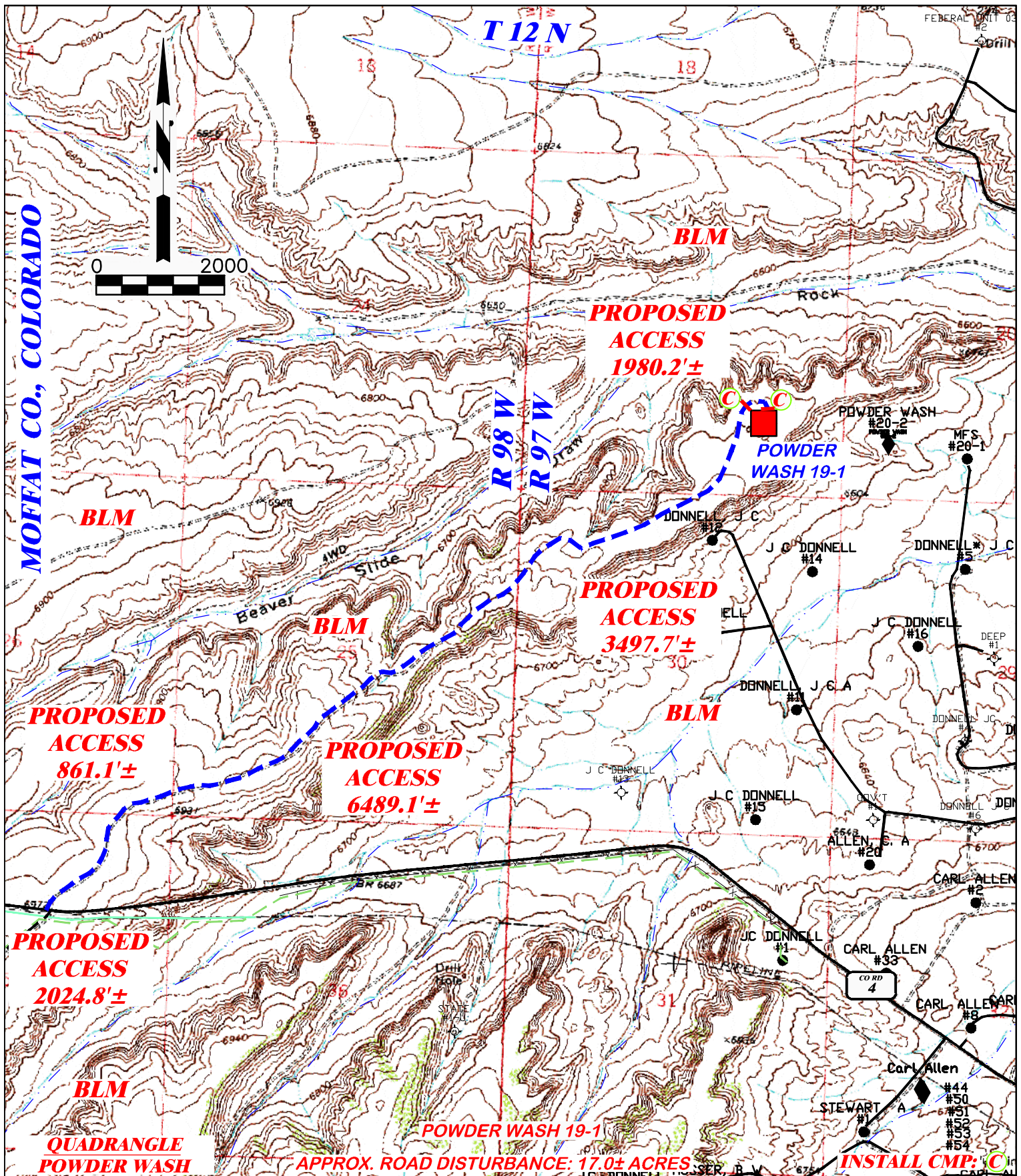
**BEFORE DIGGING
 CALL FOR
 UTILITY LINE LOCATION**

POWDER WASH 19-1

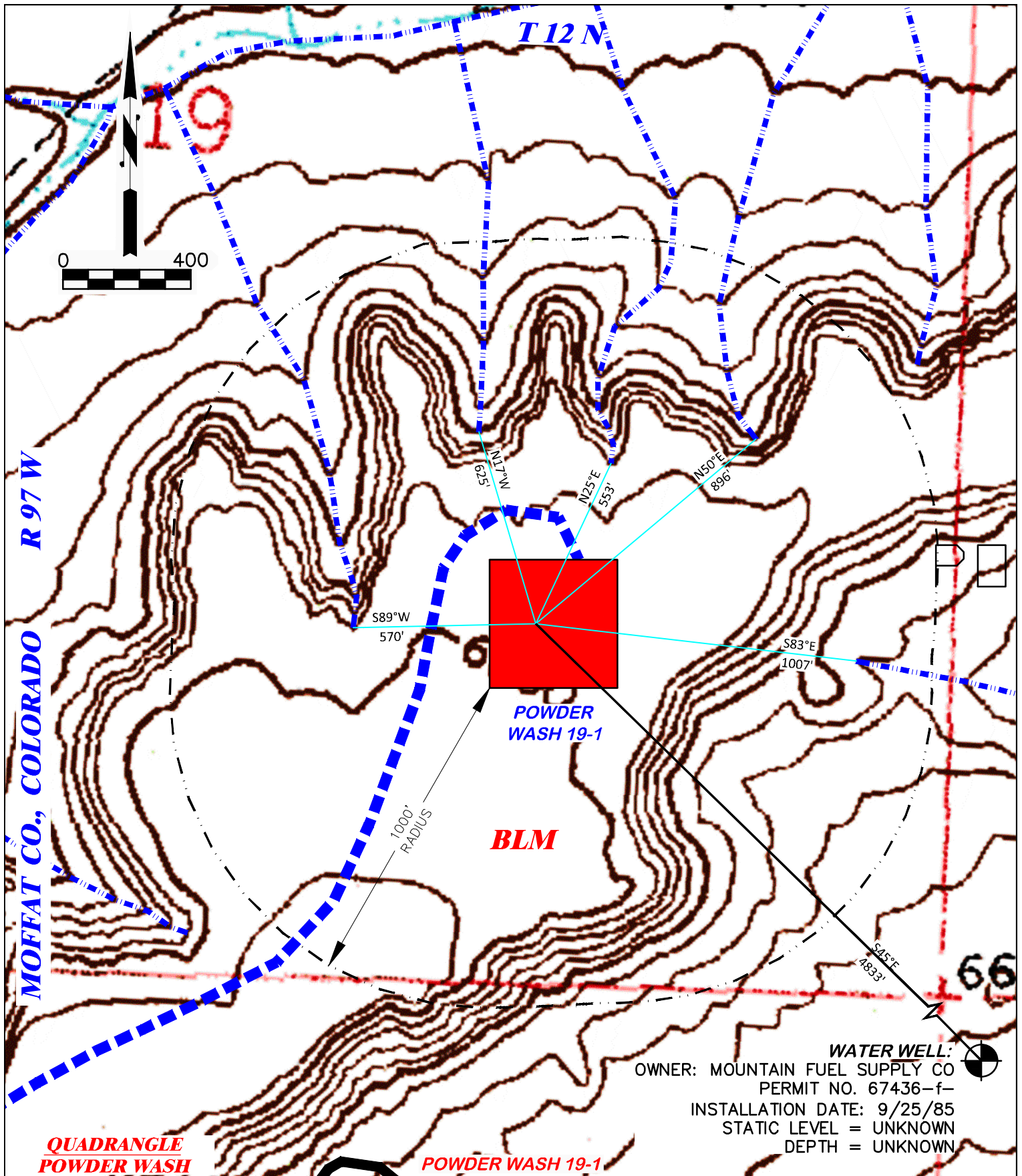



DRG RIFFIN & ASSOCIATES, INC. <small>(307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901</small>	
DRAWN: 10/30/2015 - TCM	SCALE: 1" = 100'
REVISED: 12/2/2015 - TCM	DRG JOB No. 20958
MOVED SHL & PIT	EXHIBIT 2E

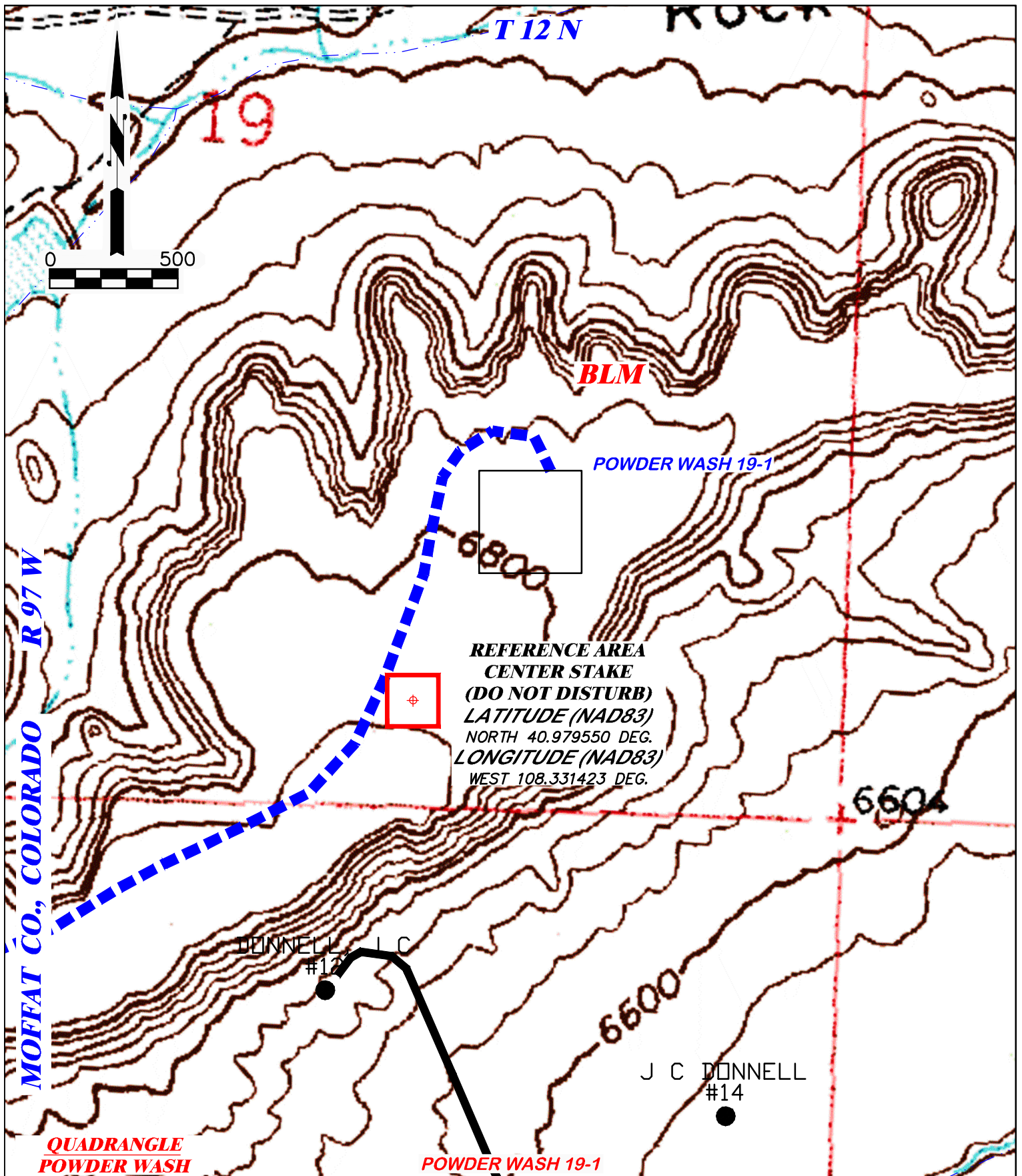
STORMWATER BMP's
QEP ENERGY COMPANY POWDER WASH 19-1 SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M., MOFFAT COUNTY, COLORADO



DRG RIFFIN & ASSOCIATES, INC. (307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901		PROPOSED ACCESS MAP QEP ENERGY COMPANY POWDER WASH 19-1 SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M., MOFFAT COUNTY, COLORADO	
DRAWN: 10/30/2015 - TCM	SCALE: 1" = 2000'	PROPOSED ACCESS LENGTH: 14,852.9'±	
REVISED: N/A -	DRG JOB No. 20958	PROPOSED ACCESS ■■■■■■■■■■ EXISTING ROAD —————	
EXHIBIT 4			



 DRG RIFFIN & ASSOCIATES, INC. (307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901		HYDROLOGY MAP	
DRAWN: 10/30/2015 - TCM		QEP ENERGY COMPANY POWDER WASH 19-1 SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M., MOFFAT COUNTY, COLORADO	
REVISED: 12/2/2015 - TCM		SCALE: 1" = 400' DRG JOB No. 20958	
MOVED SHL & PIT		NATURAL CREEK/DRAW ■■■■■■ EXISTING ROAD —————	
EXHIBIT 4A			



DRG RIFFIN & ASSOCIATES, INC. (307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901		REFERENCE AREA MAP	
DRAWN: 10/30/2015 - TCM	SCALE: 1" = 500'	QEP ENERGY COMPANY POWDER WASH 19-1 SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M., MOFFAT COUNTY, COLORADO	
REVISED: N/A -	DRG JOB No. 20958		
	EXHIBIT 4B		

LOCATION PHOTOS



WELL LOCATION LOOKING NORTH
10/28/2015



WELL LOCATION LOOKING SOUTH
10/28/2015



WELL LOCATION LOOKING EAST
10/28/2015



WELL LOCATION LOOKING WEST
10/28/2015

POWDER WASH 19-1



LOCATION PHOTOS

QEP ENERGY COMPANY
POWDER WASH 19-1
SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M.,
MOFFAT COUNTY, COLORADO

DRAWN: 10/30/2015 - TCM

SCALE: NONE

REVISED: N/A -

DRG JOB No. 20958

EXHIBIT 6

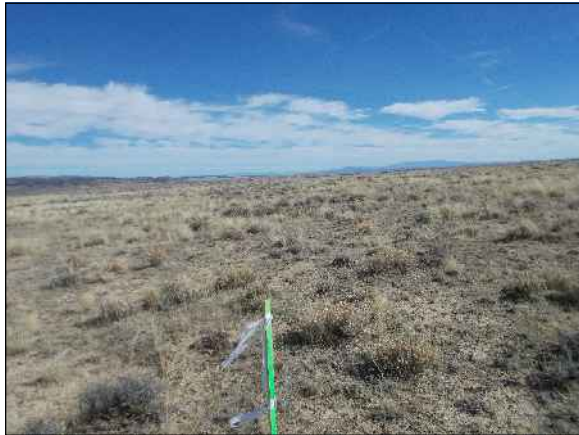
REFERENCE AREA PHOTOS



REFERENCE AREA LOOKING NORTH
10/28/2015



REFERENCE AREA LOOKING SOUTH
10/28/2015




REFERENCE AREA LOOKING EAST
10/28/2015



REFERENCE AREA LOOKING WEST
10/28/2015

REFERENCE AREA
CENTER STAKE
(DO NOT DISTURB)
LATITUDE (NAD83)
NORTH 40.979550 DEG.
LONGITUDE (NAD83)
WEST 108.331423 DEG.

POWDER WASH 19-1

 DRG RIFFIN & ASSOCIATES, INC. <small>(307) 362-5028 1414 ELK ST., ROCK SPRINGS, WY 82901</small>		REFERENCE AREA PHOTOS	
DRAWN: 10/30/2015 - TCM	SCALE: NONE	QEP ENERGY COMPANY POWDER WASH 19-1 SESE, SECTION 19, T. 12 N., R. 97 W., 6th P.M., MOFFAT COUNTY, COLORADO	
REVISED: N/A - .	DRG JOB No. 20958		
	EXHIBIT 6A		

DRIVING DIRECTIONS

QEP ENERGY COMPANY

POWDER WASH 19-1

SESE, SECTION 19, T. 12 N., R. 97 W., 6TH P.M.,

MOFFAT COUNTY, COLORADO

Beginning at the intersection of County Road 4 and County Road 62, Moffat County, Colorado, travel northwesterly and southwesterly on County Road 4 for 3.3 miles. Turn right onto the staked access for the POWDER WASH 19-1 and travel northeasterly for 2.8 miles to reach the proposed site.

QEP ENERGY COMPANY
POWDER WASH 19-1
SESE, SECTION 19, T12N, R97W, 6th PM
DATE: 12/2/2015

[illegible]