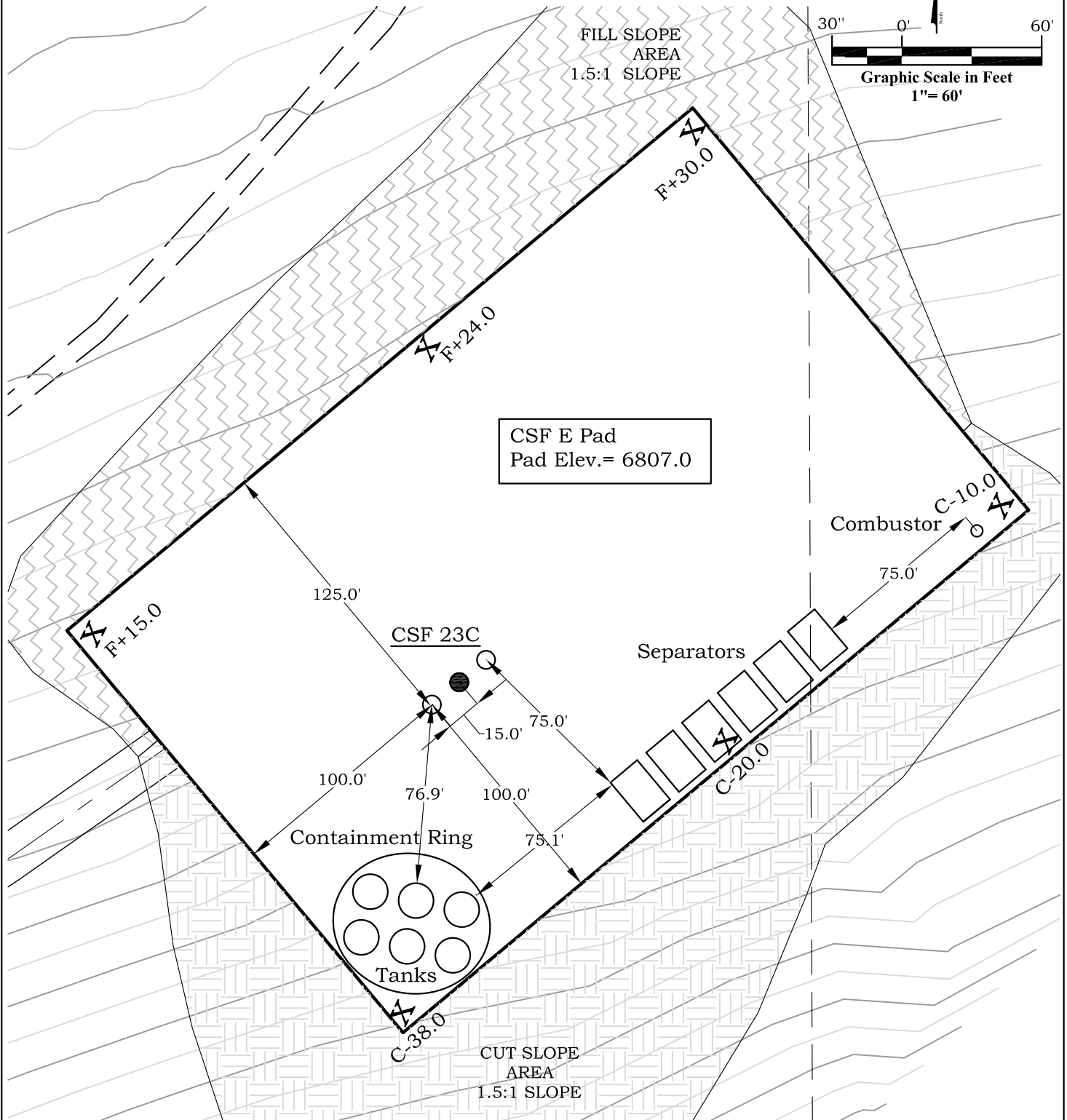


CSF E Pad

Facilities and Construction Layout Drawing

Section 9, Township 7 South, Range 91 West



River Valley Survey, Inc.
110 East 3rd. Street, Suite 213
Rifle, Colorado 81650
Ph: 970-379-7846

Project: CASTLE SPRINGS FEDERAL E PAD

Field Date: 06-09-10

Date: 07-07-10

Scale: 1"= 60'

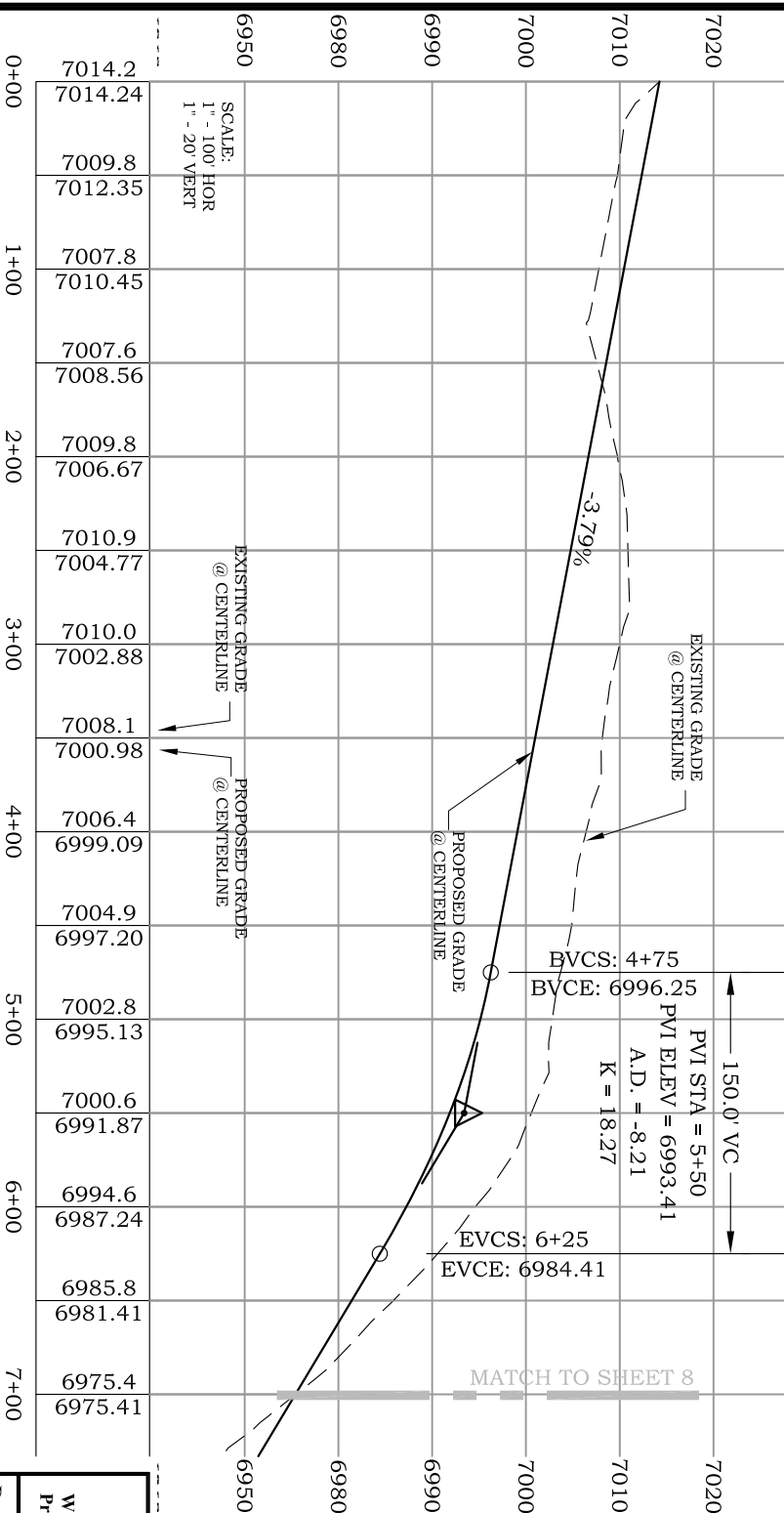
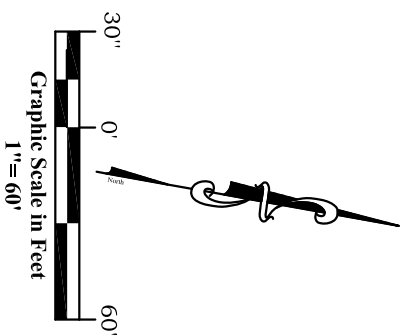
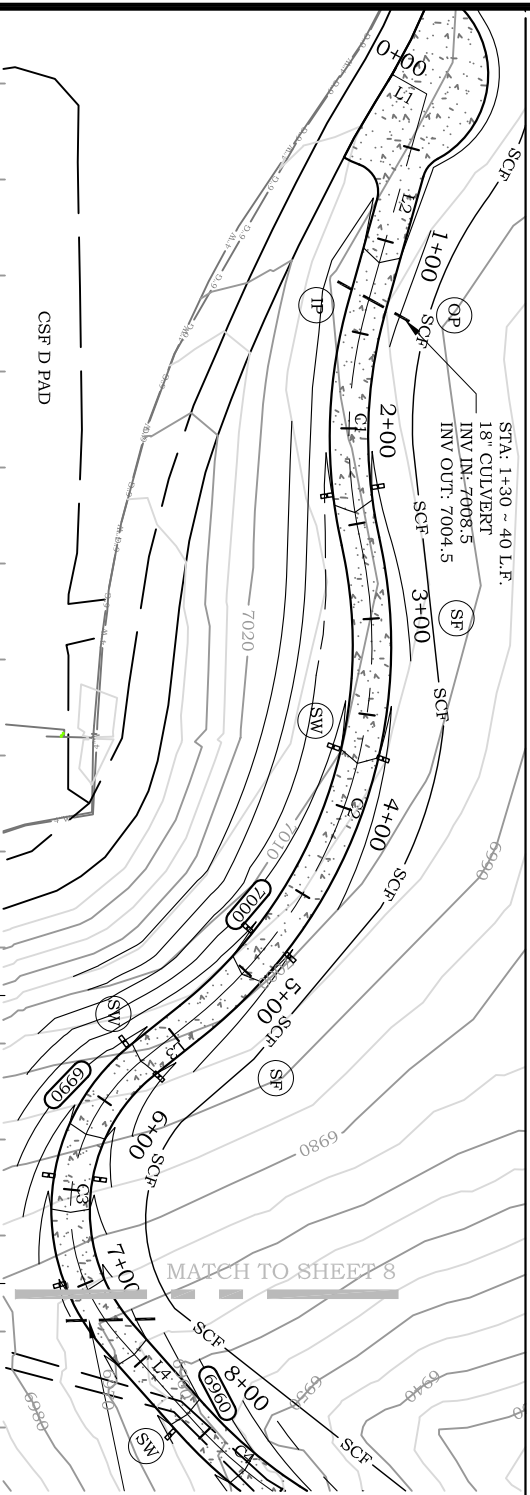
Sheet: 4 of 14

**Well Location Plat
Prepared For Antero Resources**

Situate In:
SW1/4 Section 9, T.7S., R. 91W. of the
6th P.M., Garfield County, Colorado



E PAD ACCESS ROAD PLAN & PROFILE, BMP Section 9, Township 7 South, Range 91 West



- NOTES:**
1. CENTERLINE LINE AND CURVE DATA ON SHEET 10.
 2. SEE TYPICAL ACCESS ROAD CROSS SECTION ON SHEET 10.
 3. ALL SUGGESTED DESIGN CUT AND FILL SLOPES ARE TO BE ANALYZED AND APPROVED FOR STABILITY AND SAFETY BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER.
 4. ROAD SOIL, COMPACTION DESIGN AND FIELD MONITORING AND TESTING TO BE CONDUCTED AND APPROVED BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER.



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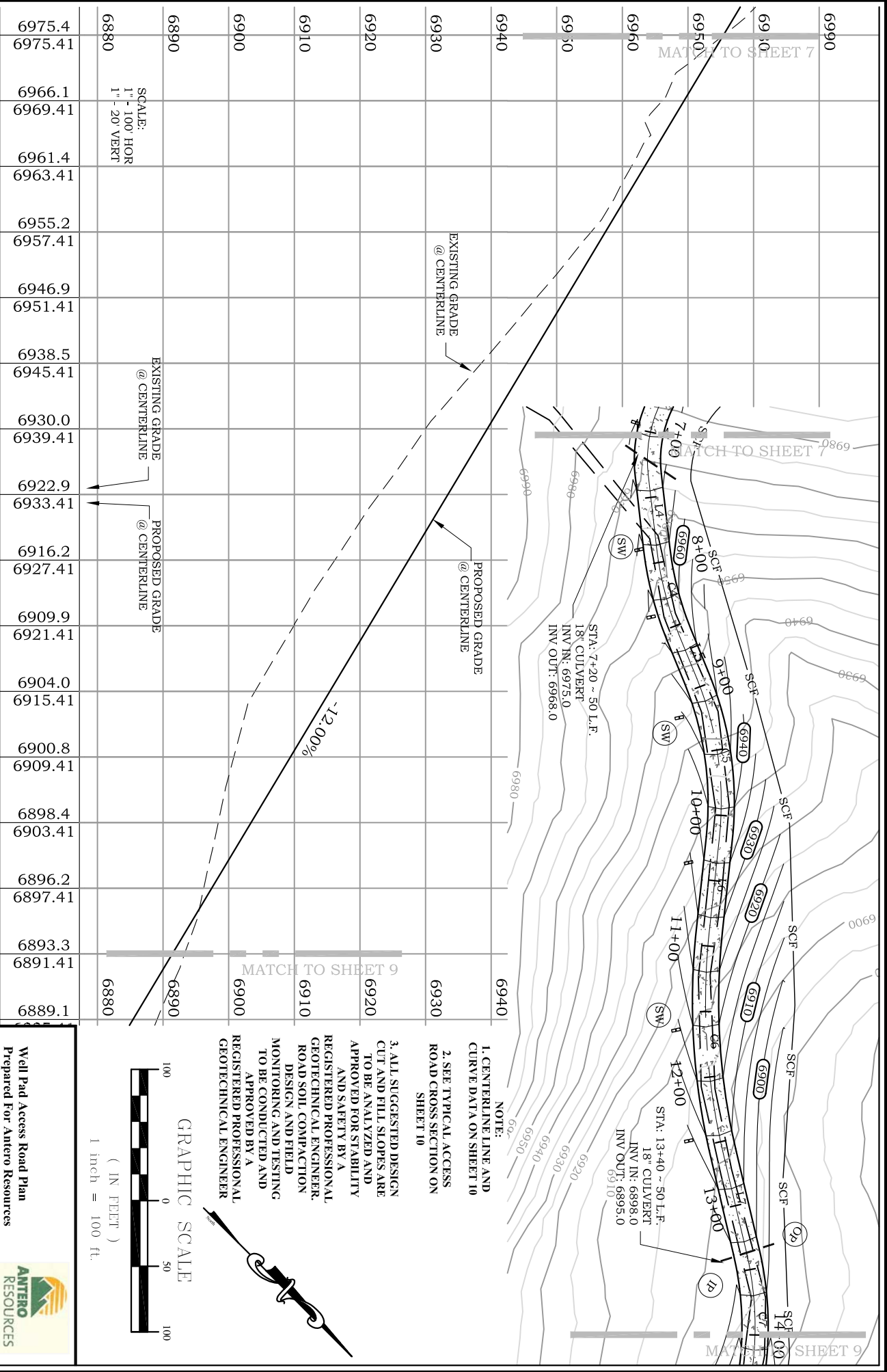
**Well Pad Access Road Plan
Prepared For Antero Resources**
Situat In:
SW 1/4 Section 9, T7S., R. 91 W., of the
6th P.M., Garfield County, Colorado

**Well Pad Access Road Plan
Prepared For Antero Resources**



Project: CASTLE SPRINGS FEDERAL E PAD

Field Date: 06-10-10	Scale: 1"= 100'
Date: 07-07-10	Sheet: 5 of 14



6975.4	6975.41	6966.1	6969.41	6961.4	6963.41	6955.2	6957.41	6946.9	6951.41	6938.5	6945.41	6930.0	6939.41	6922.9	6933.41	6916.2	6927.41	6909.9	6921.41	6904.0	6915.41	6900.8	6909.41	6898.4	6903.41	6896.2	6897.41	6893.3	6891.41	6889.1	6880
6975.4	6975.41	6966.1	6969.41	6961.4	6963.41	6955.2	6957.41	6946.9	6951.41	6938.5	6945.41	6930.0	6939.41	6922.9	6933.41	6916.2	6927.41	6909.9	6921.41	6904.0	6915.41	6900.8	6909.41	6898.4	6903.41	6896.2	6897.41	6893.3	6891.41	6889.1	6880

SCALE:
 1" = 100' HOR
 1" = 20' VERT

EXISTING GRADE
 @ CENTERLINE

PROPOSED GRADE
 @ CENTERLINE

E PAD ACCESS ROAD **PLAN & PROFILE, BMP** **Section 9, Township 7 South, Range 91 West**



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Well Pad Access Road Plan
 Prepared For Antero Resources
 Situate In:
 SW 1/4 Section 9, T7S, R. 91 W. of the
 6th P.M., Garfield County, Colorado

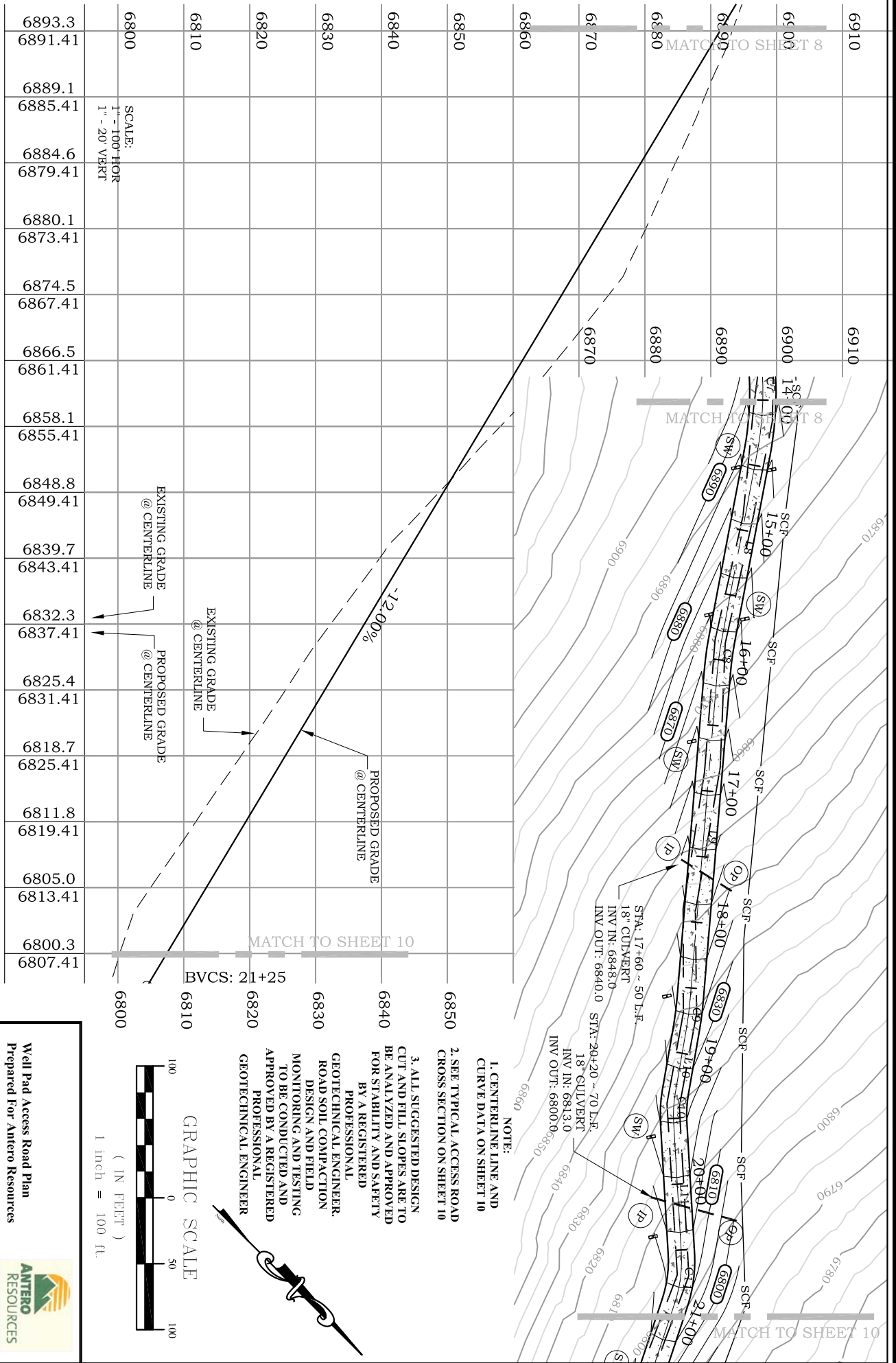
Project: CASTLE SPRINGS FEDERAL E PAD
Field Date: 06-10-10
Date: 07-07-10

Well Pad Access Road Plan
 Prepared For Antero Resources



Scale: 1" = 100'

Sheet: 6 of 14

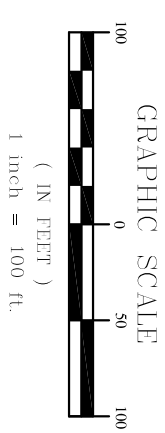


NOTE:

1. CENTERLINE AND CURVE DATA ON SHEET 10

2. SEE TYPICAL ACCESS ROAD CROSS SECTION ON SHEET 10

3. ALL SUGGESTED DESIGN CUT AND FILL SLOPES ARE TO BE ANALYZED AND APPROVED FOR STABILITY AND SAFETY BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER, ROAD SOIL COMPACTION MONITORING AND TESTING TO BE CONDUCTED AND APPROVED BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER



E PAD ACCESS ROAD **PLAN & PROFILE, BMP** **Section 9, Township 7 South, Range 91 West**



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Well Pad Access Road Plan
 Prepared For Antero Resources
 Situate In:
 SW 1/4 Section 9, T7S, R. 91 W. of the
 6th P.M., Garfield County, Colorado

Project: CASTLE SPRINGS FEDERAL E PAD
Field Date: 06-10-10
Date: 07-07-10

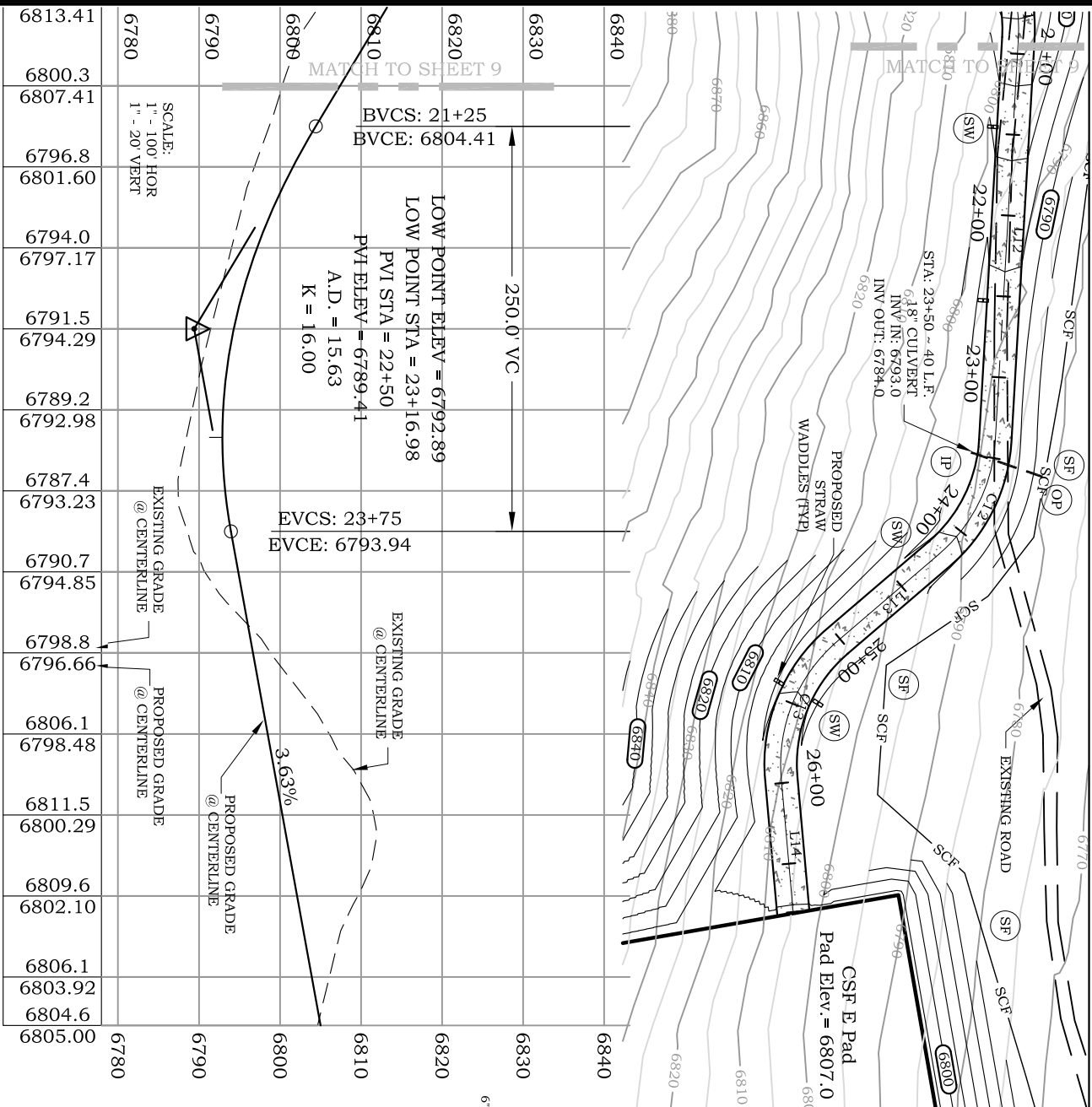
Well Pad Access Road Plan
 Prepared For Antero Resources
ANTERO RESOURCES

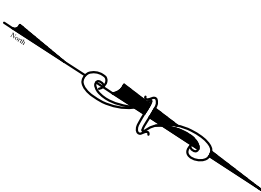
Scale: 1"= 100'

Sheet: 7 of 14

LINE TABLE		
LINE	LENGTH	BEARING
L1	20.65	N19°34'09"E
L2	115.35	S84°19'36"E
L3	32.75	S48°39'58"E
L4	55.76	N38°26'08"E
L5	36.45	N22°47'31"E
L6	71.62	N51°08'58"E
L7	78.30	N31°47'05"E
L8	142.99	N55°45'18"E
L9	248.88	N49°44'32"E
L10	48.83	N54°52'40"E
L11	99.33	N41°37'32"E
L12	248.73	N63°16'41"E
L13	82.73	S70°36'38"E
L14	82.53	N54°53'09"E

CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C1	123.26	250.00	62.91	28°14'55"
C2	278.86	250.00	155.94	63°54'34"
C3	162.14	100.00	105.19	92°53'54"
C4	68.26	250.00	34.34	15°38'37"
C5	123.73	250.00	63.16	28°21'27"
C6	168.99	500.00	85.31	19°21'53"
C7	104.59	250.00	53.07	23°58'13"
C8	26.24	250.00	13.13	6°00'46"
C9	22.41	250.00	11.21	5°08'09"
C10	23.13	100.00	11.62	13°15'09"
C11	37.79	100.00	19.12	21°39'09"
C12	80.48	100.00	42.56	46°06'42"
C13	95.13	100.00	51.51	54°30'14"





(IN FEET)
1 inch = 100 ft

TOTAL PAD GRADING
53,451 cu. yd. CUT
52,176 cu. yd. FILL

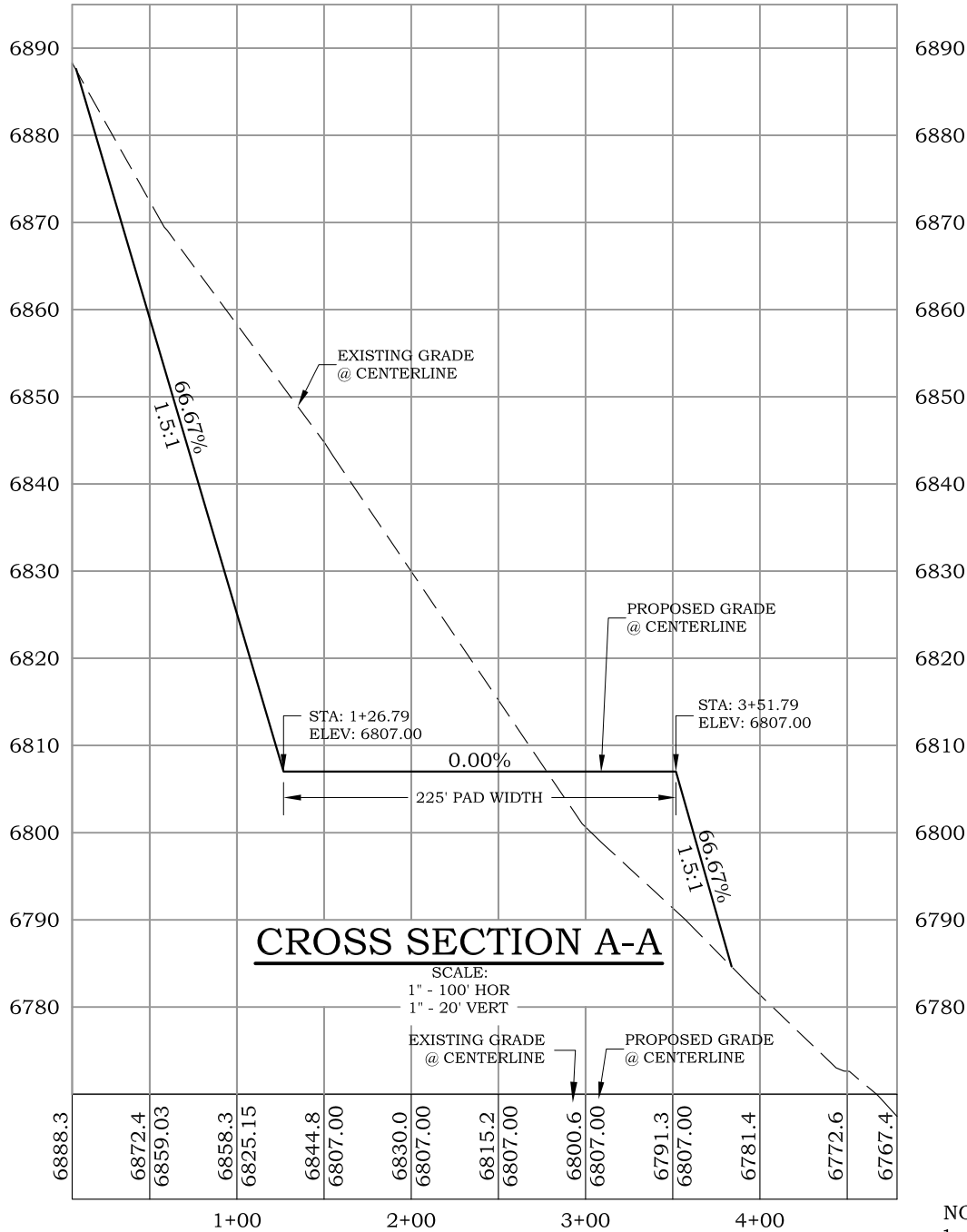
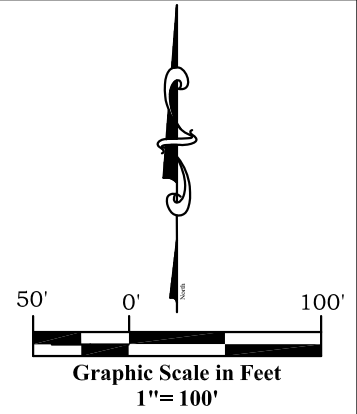
* ASSUMES 10% COMPACTION RATE

Sheet: 9 of 14

CSF E Pad

Pad Cross-Sections

Section 9, Township 7 South, Range 91 West



NOTE:
1. SEE CROSS SECTION
LOCATIONS ON GRADING PLAN
SHEET



River Valley Survey, Inc.
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Project: CASTLE SPRINGS FEDERAL E PAD

Field Date: 06-09-10

Date: 07-07-10

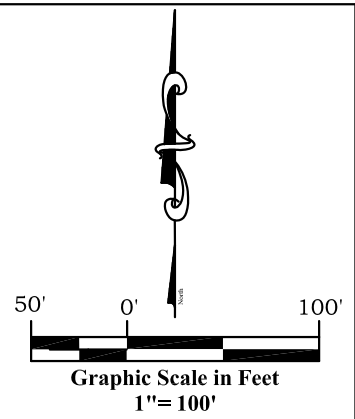
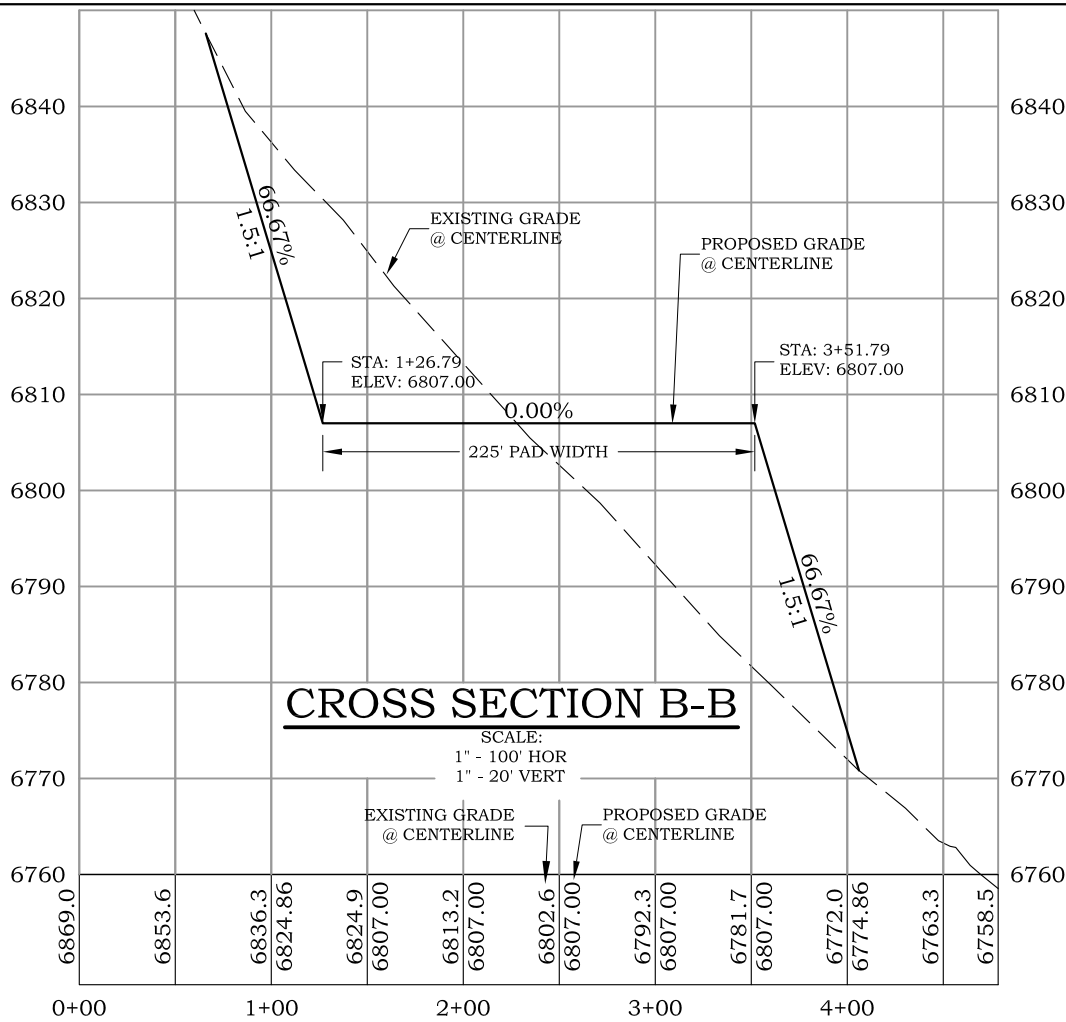
Scale: 1" = 100'

Sheet: 10 of 14

Well Location Plat
Prepared For Antero Resources

Situate In:
SW1/4 Section 9, T7S., R. 91 W. of the
6th P.M., Garfield County, Colorado

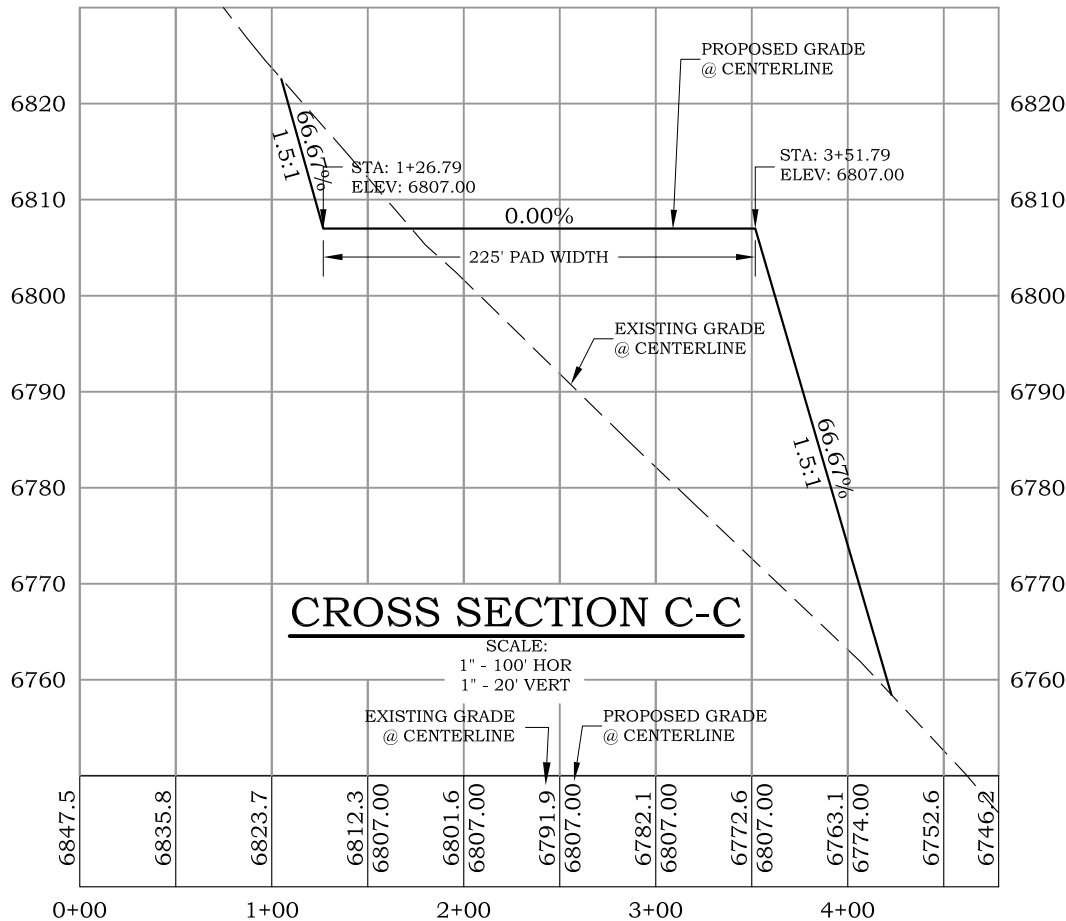




CSF E Pad

Pad Cross-Sections

Section 9, Township 7 South, Range 91 West



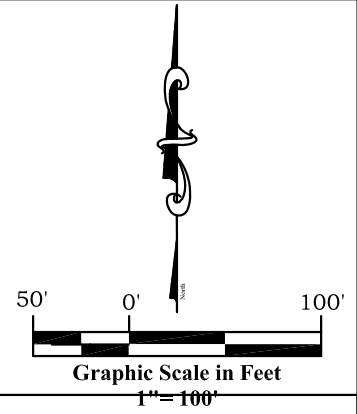
NOTE:
1. SEE CROSS SECTION
LOCATIONS ON GRADING PLAN
SHEET

Well Location Plat Prepared For Antero Resources	
Situate In: SW 1/4 Section 9, T7S., R. 91 W. of the 6th P.M., Garfield County, Colorado	
Project: CASTLE SPRINGS FEDERAL E PAD	Field Date: 06-09-10
Date: 07-07-10	Scale: 1"= 100' Sheet: 11 of 14
River Valley Survey, Inc. 110 East 3rd. Street, Suite 213 Rifle, Colorado 81650 Ph: 970-379-7846	

CSF E Pad

Interim Reclamation

Section 9, Township 7 South, Range 91 West



All Reclaimed and Revegetated Slopes Shall Be Contoured to Blend With the Adjacent Natural Slopes.

Disturbance Area Table	
Item	Acerage
Total Disturbed Area	3.5
Total Reclaimed Area	1.8
Total UnReclaimed Area	1.7

CSF E Pad
Pad Elev. = 6807.0

CSF 32C-09-07-91
CSF 23C-09-07-91
CSF 24D-09-07-91

Containment Ring
Tanks

Separators

Combustor

Area to be Reclaimed

E PAD
ACCESS ROAD



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Scale: 1" = 100'

Sheet: 12 of 14

Well Location Plat
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