

ESTIMATED DIRT QUANTITIES

ITEM	CUT	FILL	TOPSOIL	EXCESS
PAD	30152	27830	5947	<3625>
TRENCH	4012			4012
TOTALS	34164	27830	5947	387

NOTES:

- 1) TOPSOIL VOLUME BASED ON 12" TOPSOIL DEPTH.
- 2) CUTTINGS TRENCH VOLUME BASED ON 250 C.Y PER WELL AND 2' OF FREEBOARD.
- 3) SIDESLOPES TO BE 1:1 IN CUT AND 1.5:1 IN FILL.
- 4) WELL SPACING IS 16'



ECLIPSE
surveying

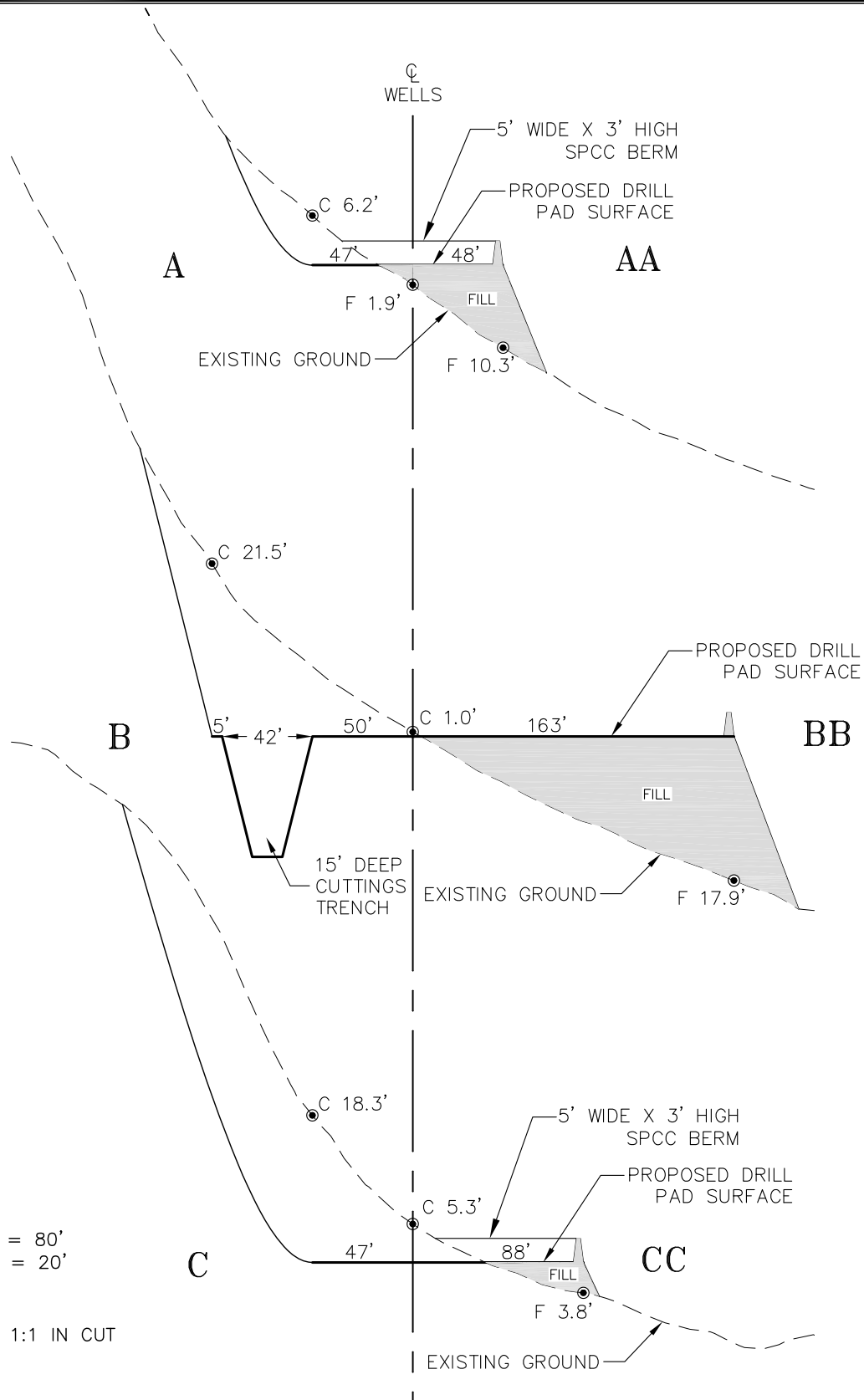
111 E. THIRD ST., SUITE 208, RIFLE, CO 81650
(970) 625-3048

REV. DATE: 3/21/11
SCALE: 1" = 100'
DATE: 3/9/11
SHEET: 1 OF 7
PROJECT: KAUF 3
DFT: TAB



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KAUFMAN PAD 3
GRADING PLAN & PAD LAYOUT



SCALE: Horiz.: 1" = 80'
Vert. : 1" = 20'

NOTE:
SIDESLOPES TO BE 1:1 IN CUT
AND 1.5:1 IN FILL.



ECLIPSE
surveying

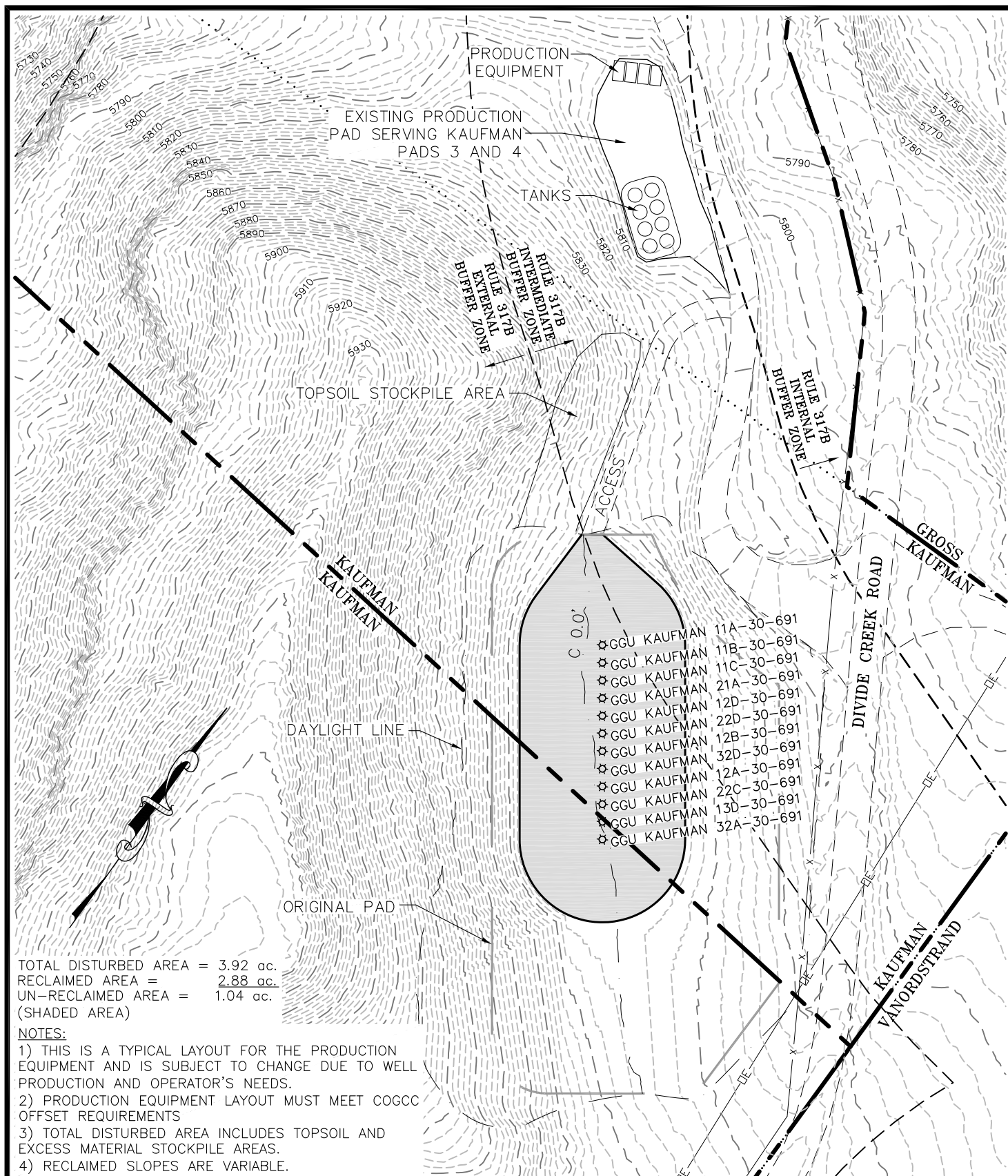
111 E. THIRD ST., SUITE 208, RIFLE, CO 81650
(970) 625-3048

REV. DATE: 3/21/11
SCALE: AS NOTED
DATE: 3/9/11
SHEET: 2 OF 7
PROJECT: KAUF 3
DFT: TAB



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KAUFMAN PAD 3
DRILL PAD CROSS SECTIONS



TOTAL DISTURBED AREA = 3.92 ac.
 RECLAIMED AREA = 2.88 ac.
 UN-RECLAIMED AREA = 1.04 ac.
 (SHADED AREA)

NOTES:

- 1) THIS IS A TYPICAL LAYOUT FOR THE PRODUCTION EQUIPMENT AND IS SUBJECT TO CHANGE DUE TO WELL PRODUCTION AND OPERATOR'S NEEDS.
- 2) PRODUCTION EQUIPMENT LAYOUT MUST MEET COGCC OFFSET REQUIREMENTS
- 3) TOTAL DISTURBED AREA INCLUDES TOPSOIL AND EXCESS MATERIAL STOCKPILE AREAS.
- 4) RECLAIMED SLOPES ARE VARIABLE.



ECLIPSE
 surveying

111 E. THIRD ST., SUITE 208, RIFLE, CO 81650
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REV. DATE:

SCALE: 1" = 120'

DATE: 3/9/11

SHEET: 5 OF 7

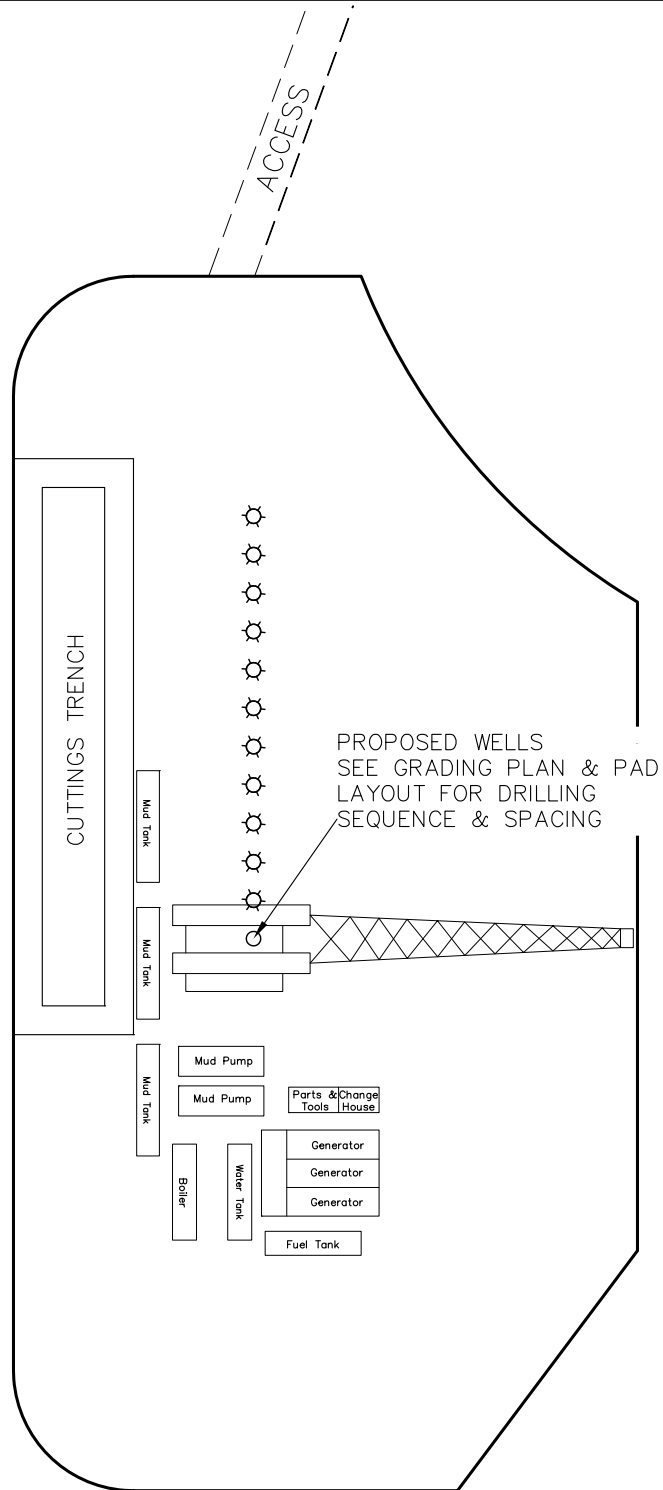
PROJECT: KAUF 3

DFT: TAB



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KAUFMAN PAD 3
 RECLAIMED PAD &
 PRODUCTION EQUIPMENT



ECLIPSE
surveying

111 E. THIRD ST., SUITE 208, RIFLE, CO 81650
(970) 625-3048

SCALE: 1" = 80'
DATE: 3/9/11
SHEET: 3 OF 7
PROJECT: KAUF 3
DFT: TAB

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KAUFMAN PAD 3
DRILL RIG LAYOUT