



Fawn 2734-2833

304.c.(14): Topsoil Protection Plan

A topsoil protection plan consistent with the requirements of Rule 1002.c.

1002c. Protection of soils. All stockpiled soils shall be protected from degradation due to contamination, compaction and, to the extent practicable, from wind and water erosion during drilling and production operations. Best management practices to prevent weed establishment and to maintain soil microbial activity shall be implemented.

Prior to construction a soil probes will be used to determine the depth of topsoil horizons, which is estimated to be approximately 6 inches. This will inform the plan for topsoil removal and segregation.

The pad will have suitable erosion controls in place prior to construction and a diversion ditch may be placed along the perimeter to prevent runoff and run on.

Approximately 7075 cubic yards of topsoil will be stored on the East side of the location, no higher than 10 feet. Below is a scaled diagram that depicts the location of the topsoil pile. There will be no test pits on this location. Also shown below is an aerial photograph depicting the extent of the disturbed area, the access road is already constructed and in use for surrounding operations.

The topsoil pile will be seeded. Temporary controls may be used in conjunction with permanent controls around topsoil piles where erosion hazards are high. Control measures will be used as designed for the specific areas to prevent any migration of soils off site.

Before road construction begins, the topsoil will be stripped from the access road corridor to either side of the road and wind-rowed temporarily. The topsoil will then be evenly distributed on the "out slope" areas of the borrow ditches and reseeded.

Soil stabilization and erosion control issues will be addressed immediately upon surface disturbance and will continue throughout the life of the well.

At the time of interim reclamation, the portions of the pad not needed for production equipment, topsoil will be redistributed on to the location will be re-contoured and reclaimed.

Annual or noxious weeds shall be controlled on all disturbed areas. A weed monitoring and control program will be implemented beginning the first growing season after the location is built and interim and final reclamation. All reclamation equipment will be cleaned prior to use to reduce the potential for introduction of noxious weeds or other undesirable non-native species. The operator will coordinate all weed control measures with the surface owner.



BMPs for Topsoil Protection:

- During initial pad construction, the topsoil will be stripped from the disturbance area and stored onsite for future use during pad pull-back and interim reclamation. All stockpiled topsoil will be protected from degradation due to contamination, compaction, and, to the extent practicable, from wind and water erosion. This will be achieved initially by applying cat-tracking/soil roughening to the topsoil pile and employing additional BMPs if and when needed (e.g., the addition of organic matter).
- Verdad maintains a weed mitigation maintenance program to prevent the establishment of weeds on the topsoil pile and location.
- The site will be inspected bi-weekly for BMP integrity and current installation. Any deficiencies noted will be addressed in a timely manner.
- Verdad will grade the topsoil stockpile to ensure that all surfaces can be stabilized safely and effectively.
- Verdad will stabilize and maintain areas needed for production operations or for subsequent drilling operations to minimize dust and erosion to the extent possible.
- Verdad will implement a Spill Prevention, Control, and Countermeasure plan to protect soil from potential spills.



SCALE: 1" = 100'

0' 50' 100'

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED 10' CONTOUR
- X- PROPOSED FENCE LINE
- - - PROPOSED ROAD CENTER LINE
- - - EXISTING PIPELINE
- W-W- EXISTING WATERLINE
- - - SURVEY SECTION LINE
- O- PROPOSED BERM/
PROPOSED OIL AND GAS LOCATION
- - - PROPOSED DIVERSION DITCH
- - - WORKING PAD SURFACE
- - - PRODUCTION PAD SURFACE
- RETENTION AREA
- RETENTION 1' FREEBOARD AREA
- SPILLWAY RIP RAP
- FILL AREA

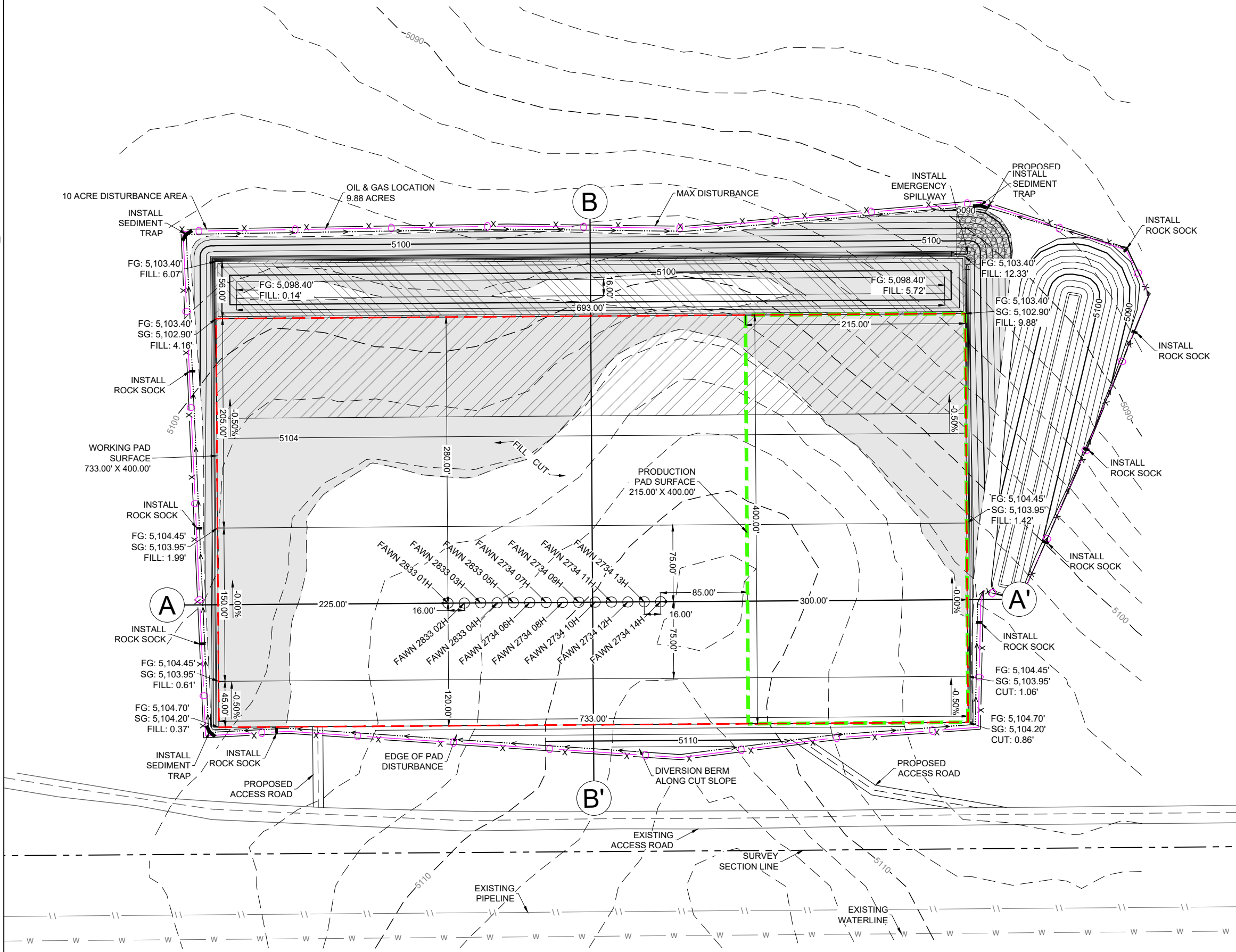
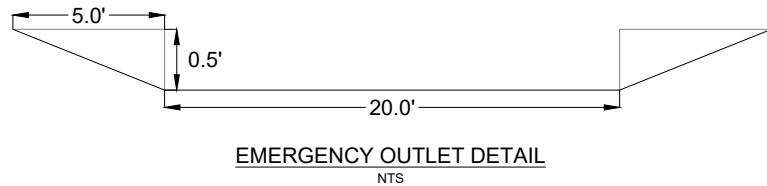
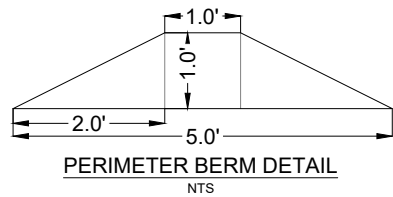
WELL NAME	PRE-CONSTRUCTION ELEVATION	SUB-GRADE ELEVATION	FINAL-GRADE ELEVATION
FAWN 2833 01H	5,107.05'	5,103.95'	5,104.45'
FAWN 2833 02H	5,107.35'	5,103.95'	5,104.45'
FAWN 2833 03H	5,107.61'	5,103.95'	5,104.45'
FAWN 2833 04H	5,107.97'	5,103.95'	5,104.45'
FAWN 2833 05H	5,108.30'	5,103.95'	5,104.45'
FAWN 2833 06H	5,108.59'	5,103.95'	5,104.45'
FAWN 2734 07H	5,109.01'	5,103.95'	5,104.45'
FAWN 2734 08H	5,109.43'	5,103.95'	5,104.45'
FAWN 2734 09H	5,109.90'	5,103.95'	5,104.45'
FAWN 2734 10H	5,110.29'	5,103.95'	5,104.45'
FAWN 2734 11H	5,110.69'	5,103.95'	5,104.45'
FAWN 2734 12H	5,111.20'	5,103.95'	5,104.45'
FAWN 2734 13H	5,111.43'	5,103.95'	5,104.45'
FAWN 2734 14H	5,111.63'	5,103.95'	5,104.45'

EARTHWORK QUANTITIES:

CUT:	29,905 CY
FILL:	21,800 CY
GRAVEL:	5,430 CY
TOPSOIL (6"):	7,075 CY
EXPORT:	1,030 CY
FILL FACTOR:	1.15

DISTURBANCE ACREAGES:

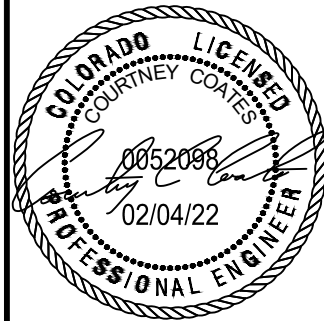
WORKING PAD SURFACE:	6.73 ACRES
PRODUCTION PAD SURFACE:	1.97 ACRES
OIL & GAS LOCATION:	9.88 ACRES
ACCESS ROAD:	0.19 ACRES
MAX DISTURBANCE:	10.00 ACRES



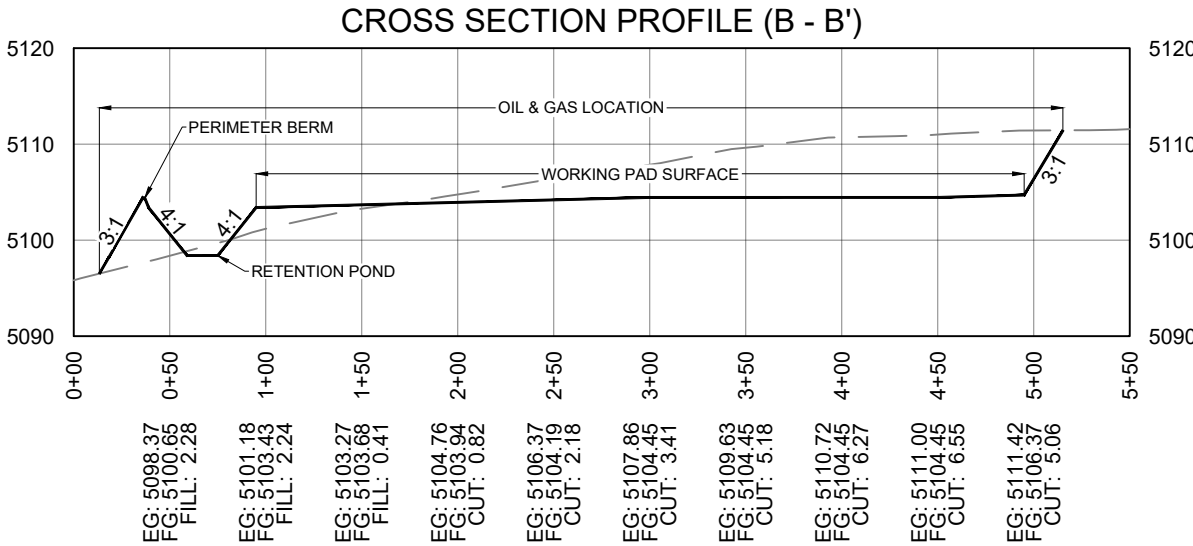
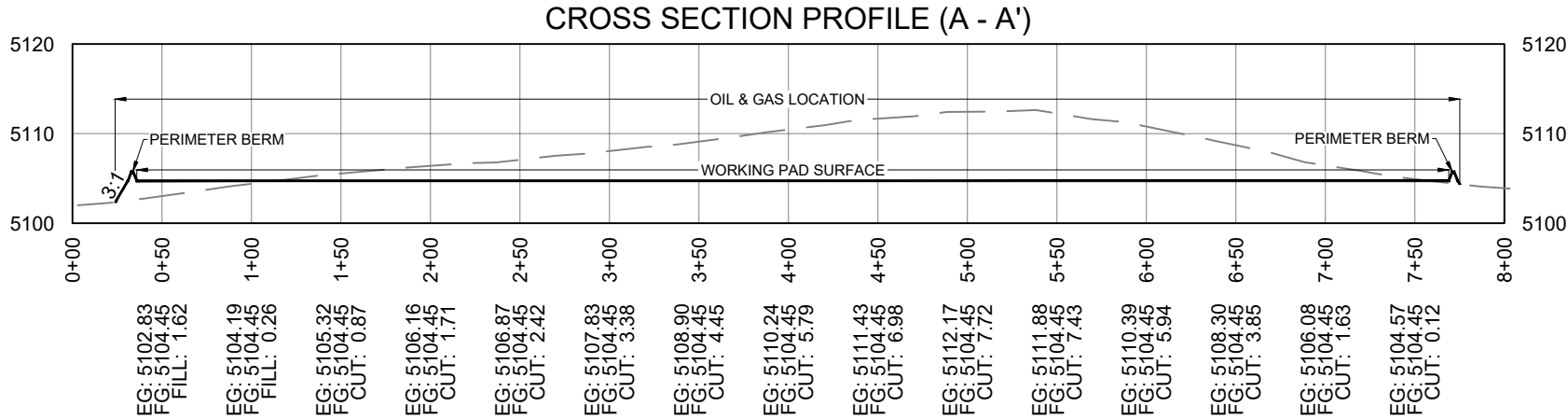
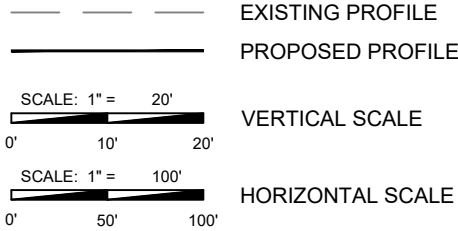
CONSTRUCTION LAYOUT DRAWING

FAWN 2833/2734

VERDAD



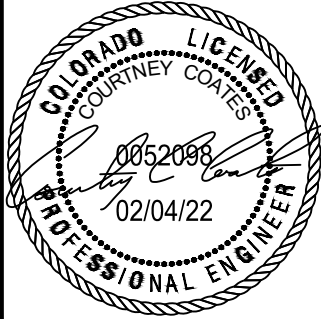
DATE:	02/04/22
DRAWN BY:	ARG
REVIEWED BY:	CCC
SCALE:	1" = 100'
SHEET:	1 OF 2
REVISION:	
XXX	XXXXXX
XXX	XXXXXX
XXX	XXXXXX



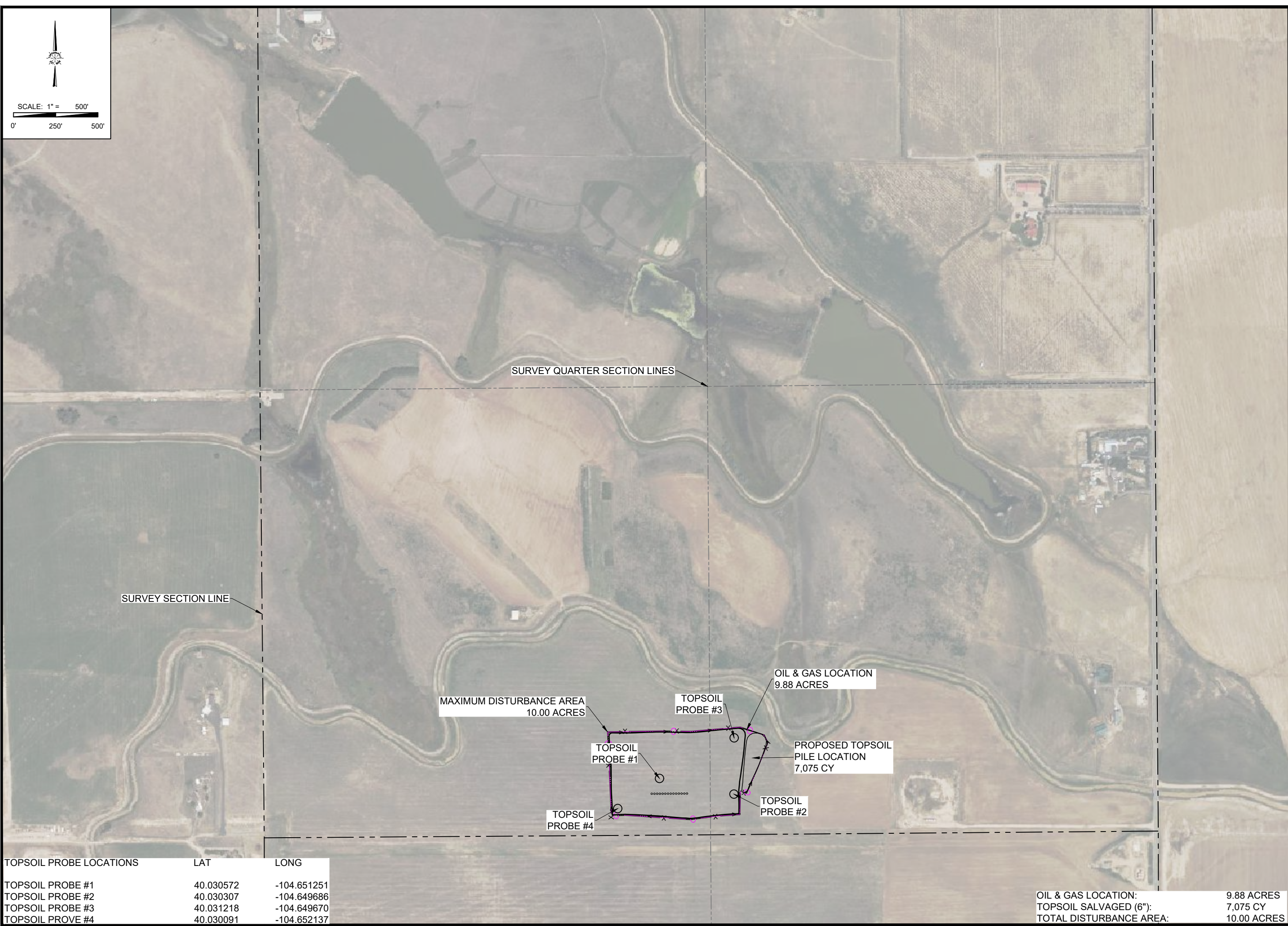
CONSTRUCTION LAYOUT PROFILES

FAWN 2833/2734

VERDAD



DATE:	02/04/22
DRAWN BY:	ARG
REVIEWED BY:	CCC
SCALE:	1" = 100'
SHEET:	2 OF 2
REVISION:	
XXX	XXXX/XX
XXX	XXXX/XX
XXX	XXXX/XX



TOPSOIL PROBE LOCATIONS	LAT	LONG
TOPSOIL PROBE #1	40.030572	-104.651251
TOPSOIL PROBE #2	40.030307	-104.649686
TOPSOIL PROBE #3	40.031218	-104.649670
TOPSOIL PROBE #4	40.030091	-104.652137

OIL & GAS LOCATION:	9.88 ACRES
TOPSOIL SALVAGED (6"):	7,075 CY
TOTAL DISTURBANCE AREA:	10.00 ACRES

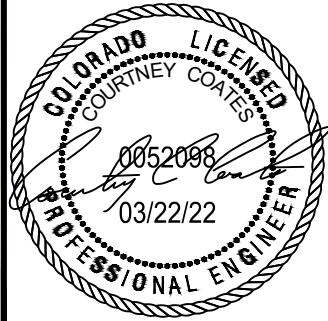


TOPOGRAPHIC

LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, STE. 146
FORT WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512
FAX: (817) 744-7548
WWW.TOPOGRAPHIC.COM

TOPSOIL PLAN
FAWN 2833/2734
VERDAD



DATE:	03/22/21
DRAWN BY:	ARG
REVIEWED BY:	CCC
SCALE:	1" = 500'
SHEET:	1 OF 1
REVISION:	
XXX	XXXXXX
XXX	XXXXXX
XXX	XXXXXX