September 12, 2018

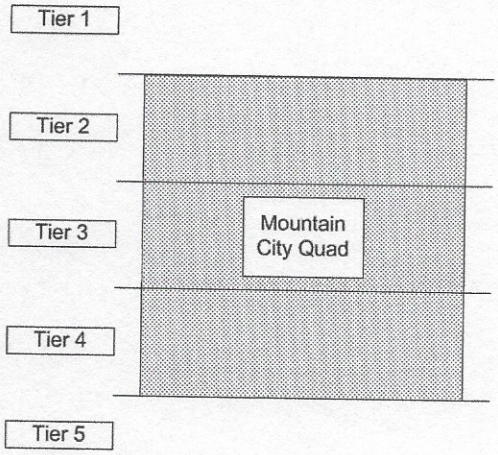
MEMORANDUM

To: Brian Hunt

From: Tom Grimshaw

Subject: Geologic Map of the Mountain City Quadrangle: Second Update of Segments for Digitizing for GIS

In my memo of May 19, 2018 I provided revised segments of the Mountain City Quadrangle geologic map. Two of the segments in Tier 4 (see below) – the central and eastern segments of the tier – were indicated "unmapped" or "in progress" in the area between the Blanco River and FM 150 (mostly the former Gregg Ranch). This mapping has now been completed.



The purpose of this memo is to provide another complete set of the geologic map segments with the two in Tier 4 updated and replaced. As in the May 19 memo, all of the segments are provided, but with the replacements for the two segments.

Attachment A contains the nine segments within the Mountain City Quadrangle and some of the segments surrounding the quad. The remaining surrounding segments will be provided in a future memo.

The next step is to provide a "colored-in" version of the taped-together map segments to better illustrate the geologic features. Although more refinements are expected, in particular mapping of alluvium around Onion Creek, I believe we are ready to proceed to digitization for preparing a GIS version.

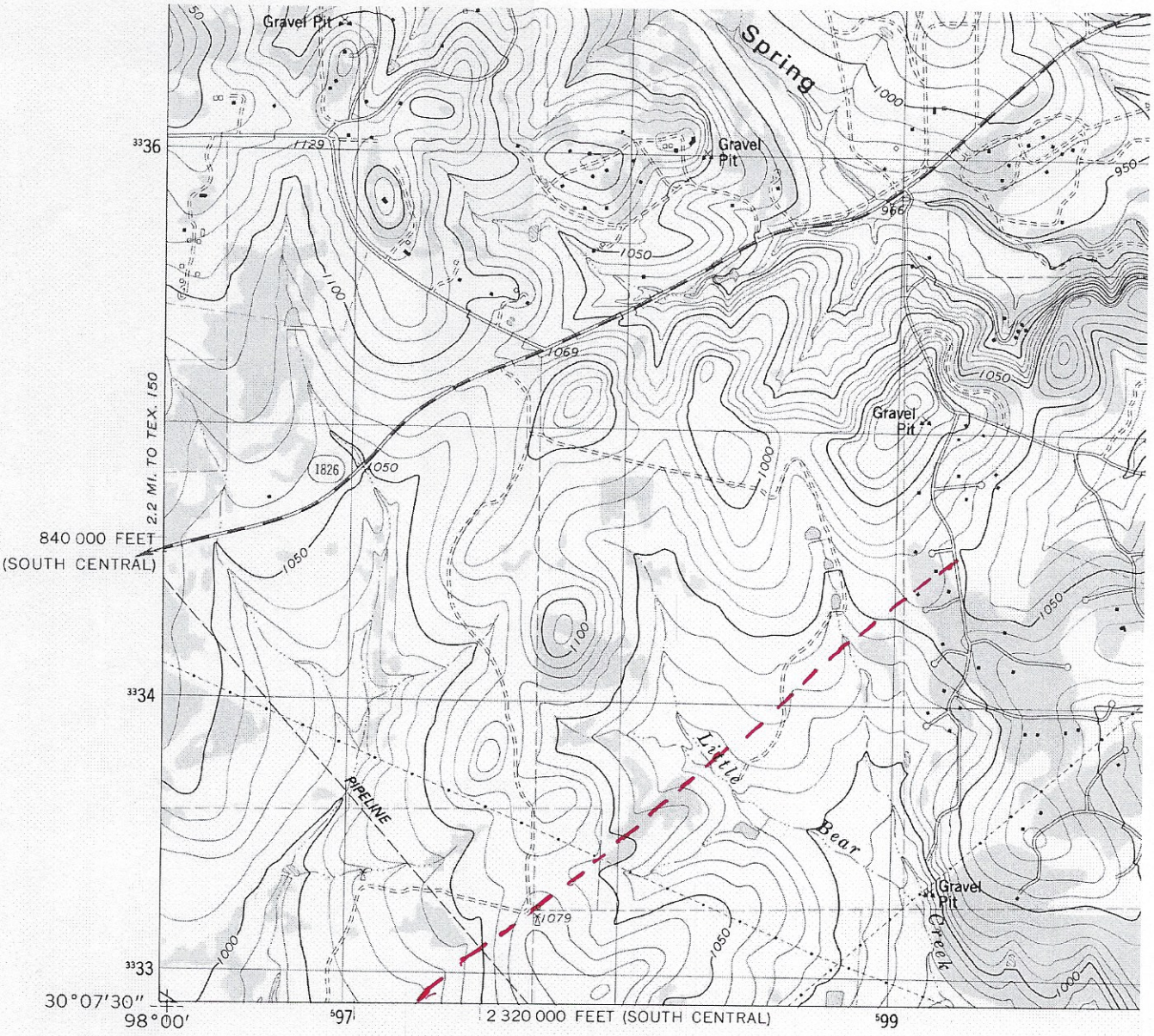
As always, please let me know if you have any questions.

Attachment A.

Updated Segments of Geologic Mapping of the Mountain City Quadrangle

Attachment A1.

Tier 1



(DRIFTWOOD) 6344 II SE

Mapped, edited, and published by the Geological Survey

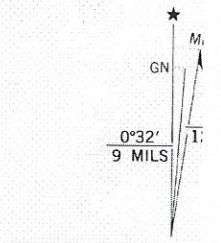
Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1968. Revised from aerial photographs taken 1985. Field checked 1986. Map edited 1986

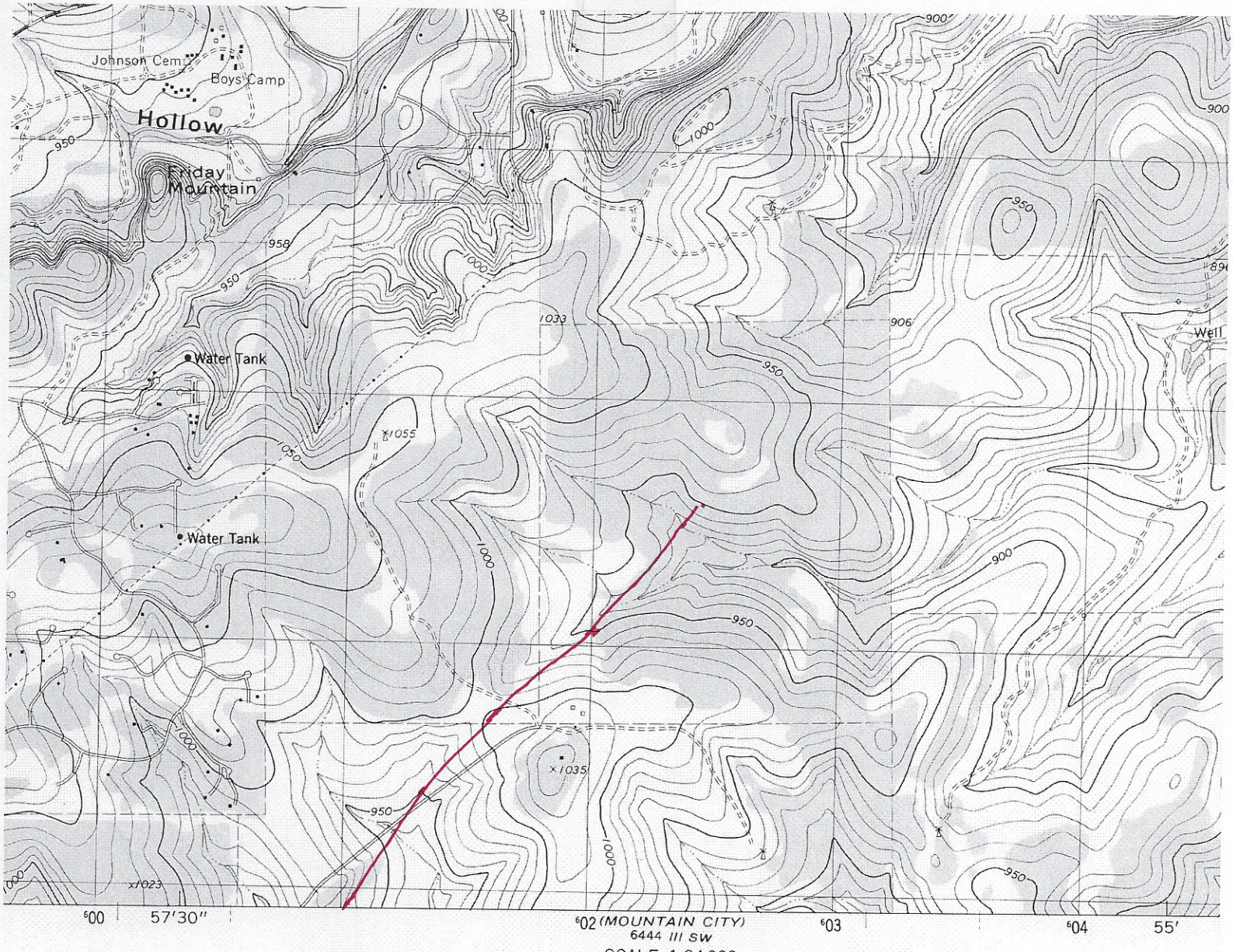
Projection: Texas coordinate system, south central zone (Lambert conformal conic)
10,000-foot grid ticks based on Texas coordinate system, south central and central zones
1000-meter Universal Transverse Mercator grid, zone 14
1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 18 meters south and 28 meters east as shown by dashed corner ticks

Fine red dashed lines indicate selected fence lines

Red tint indicates areas in which only landmark buildings are shown



UTM GRID AND 1986 M
DECLINATION AT CEN
DIAGRAM IS APP



SCALE 1:24 000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

MN

GN

7°

0°32′ 124 MILS

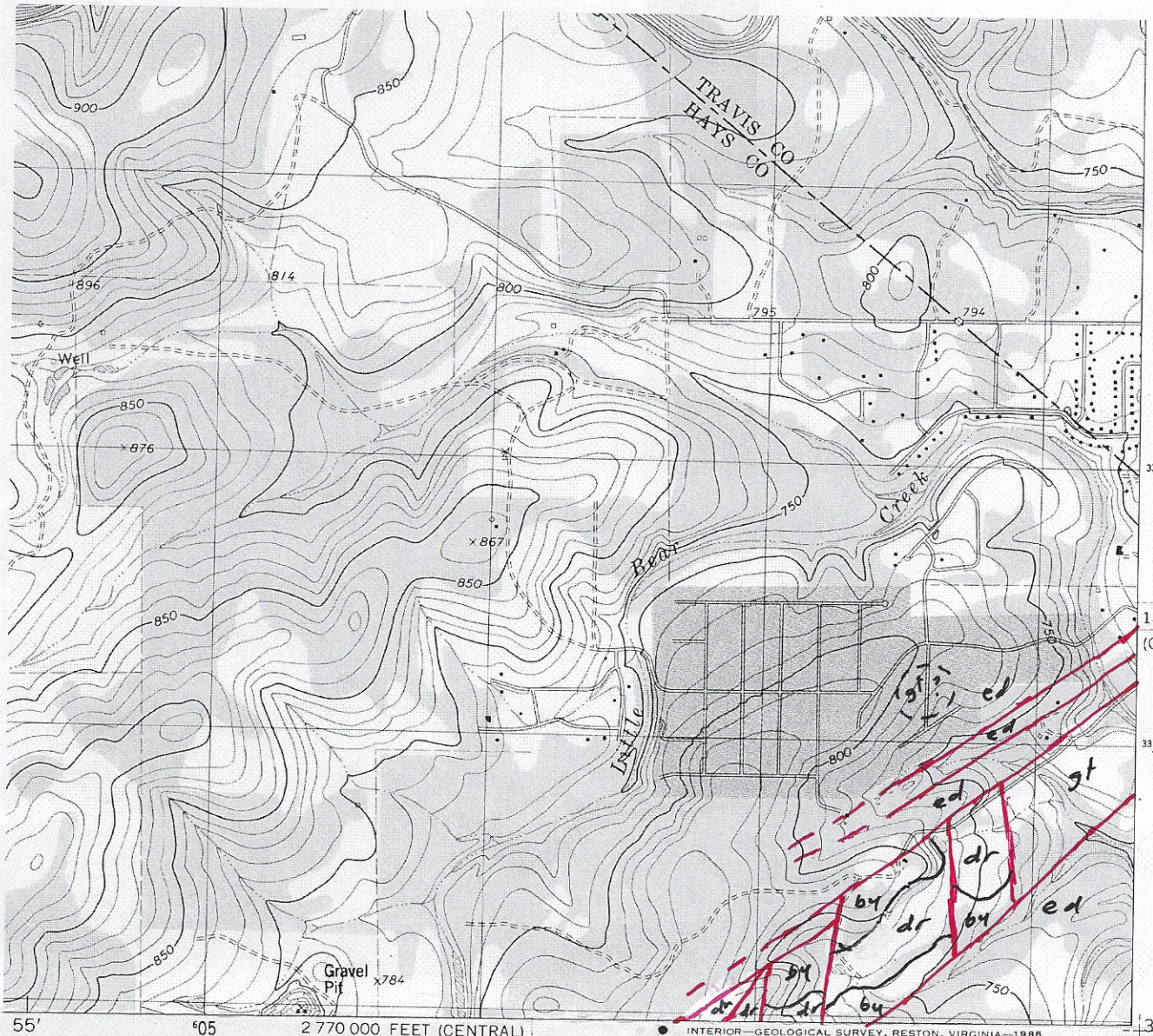
9 MILS

ND 1986 MAGNETIC NORTH
TION AT CENTER OF MAP
RAM IS APPROXIMATE

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



55′ 6°05 2 770 000 FEET (CENTRAL) 6°07 6°08 000mE 97°52′30″

180 000 FEET (CENTRAL)

3335

3334 000mN

30°07′30″

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1986

ROAD CLASSIFICATION

Primary highway, hard surface

Secondary highway, hard surface

Light-duty road, hard or improved surface

Unimproved road

Interstate Route U. S. Route State Route

(BUDA) 6444 III SE

TEXAS

QUADRANGLE LOCATION

3097–223

USGS NMD HISTORICAL MAP
NOV 17 1986
REC'D FILE COPY

SIGNAL HILL, TEX.

NW/4 BUDA 15′ QUADRANGLE

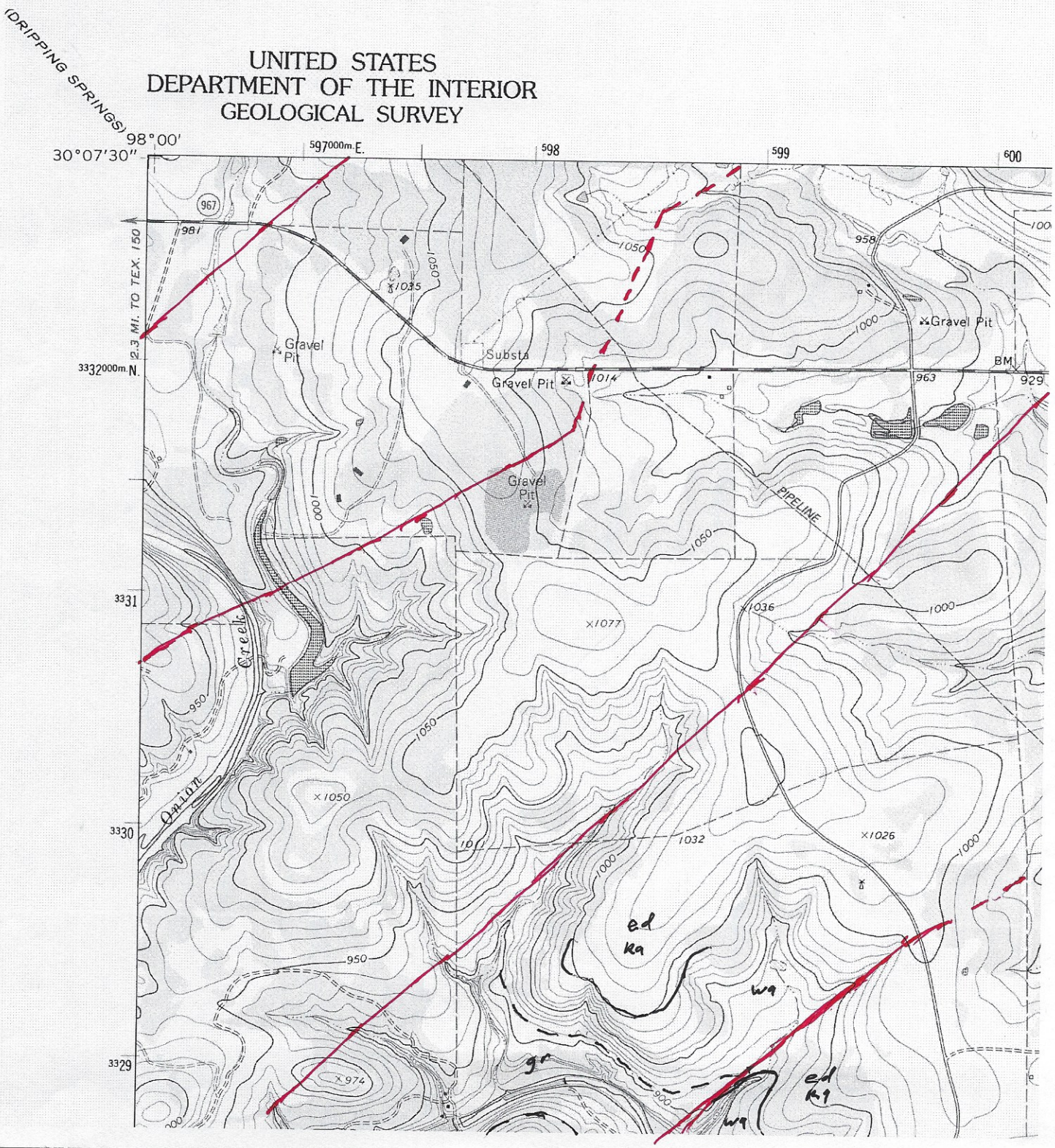
30097–B8–TF–024

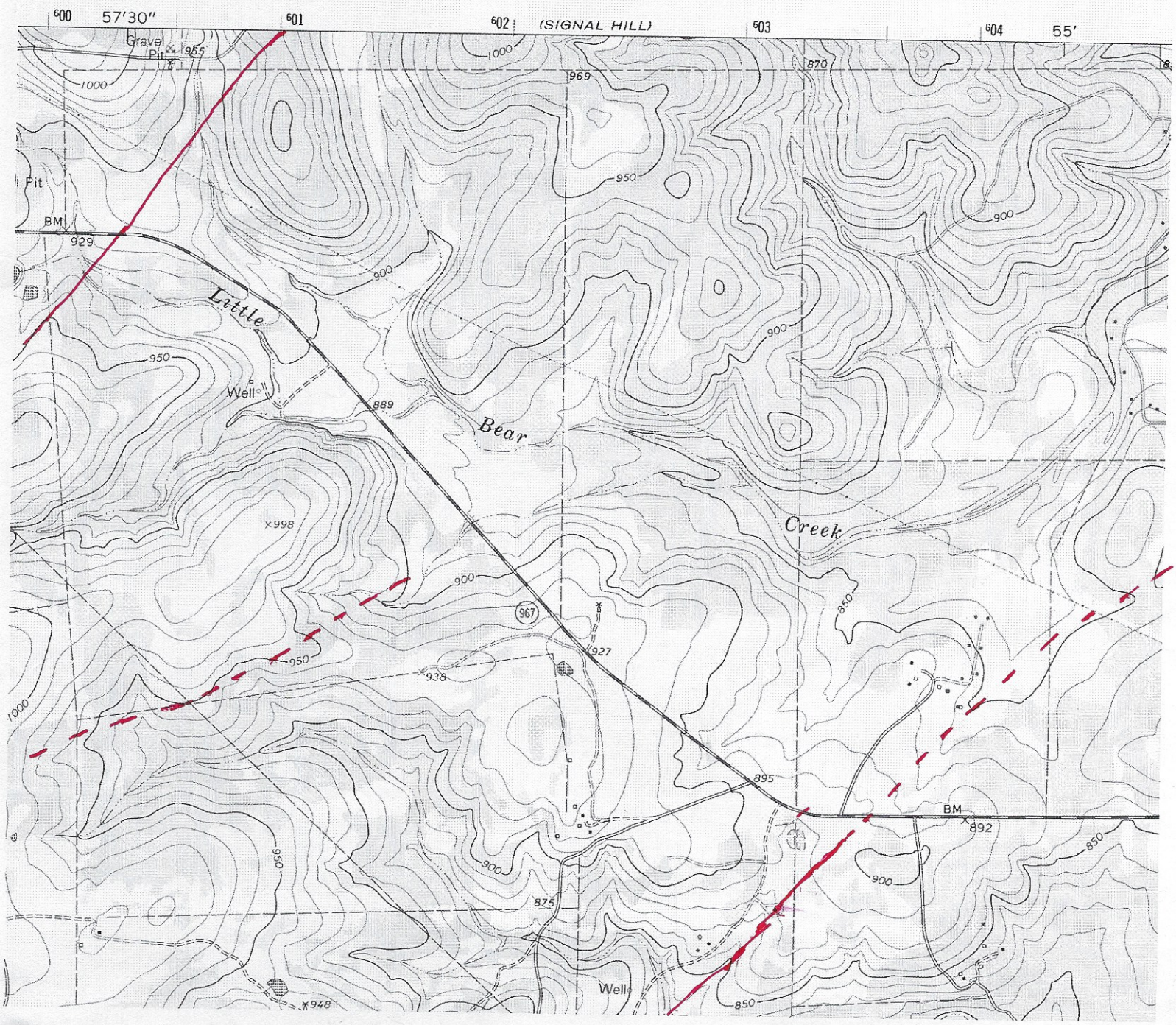
1986

DMA 6444 III NW–SERIES V882

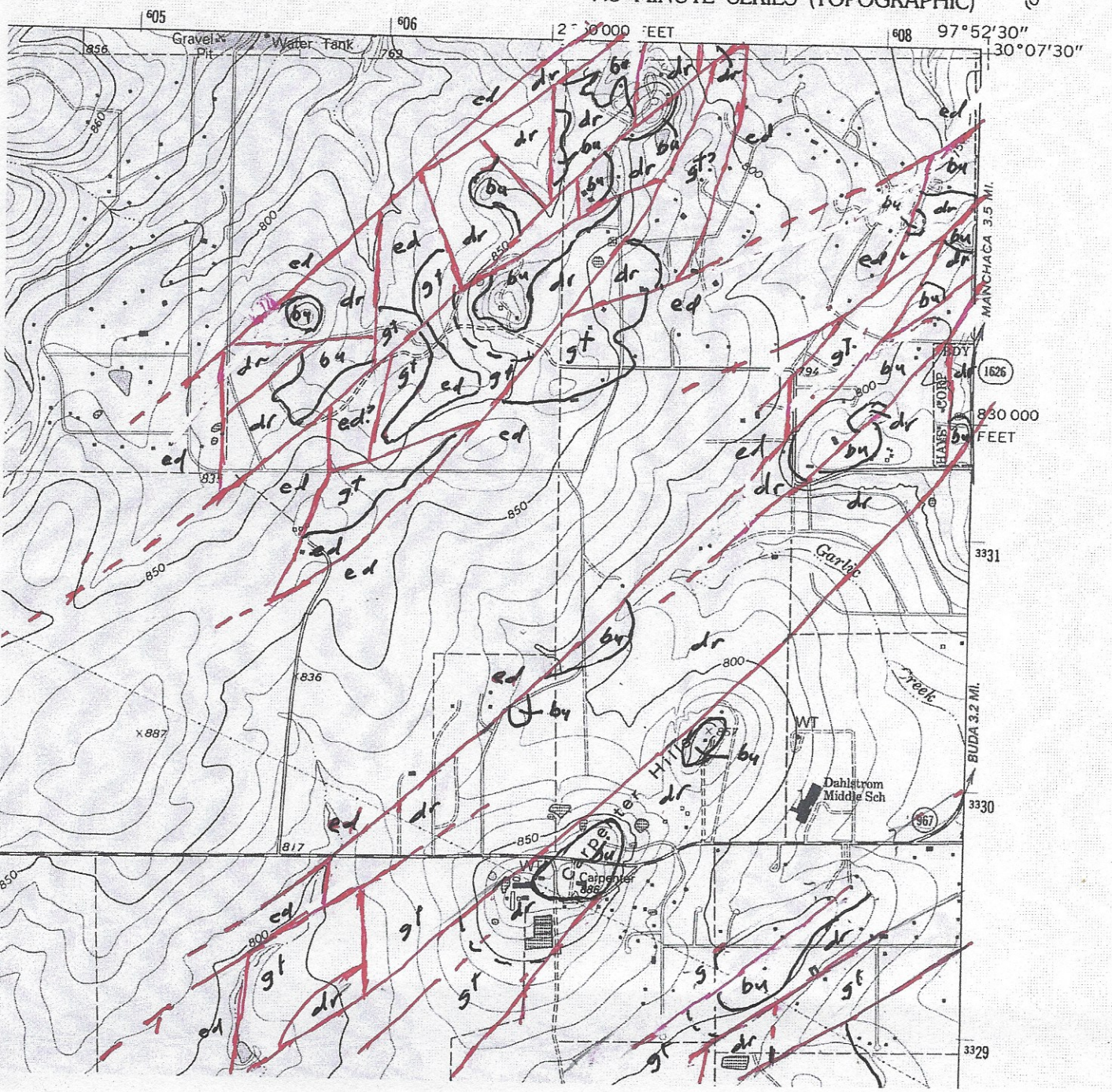
Attachment A2.

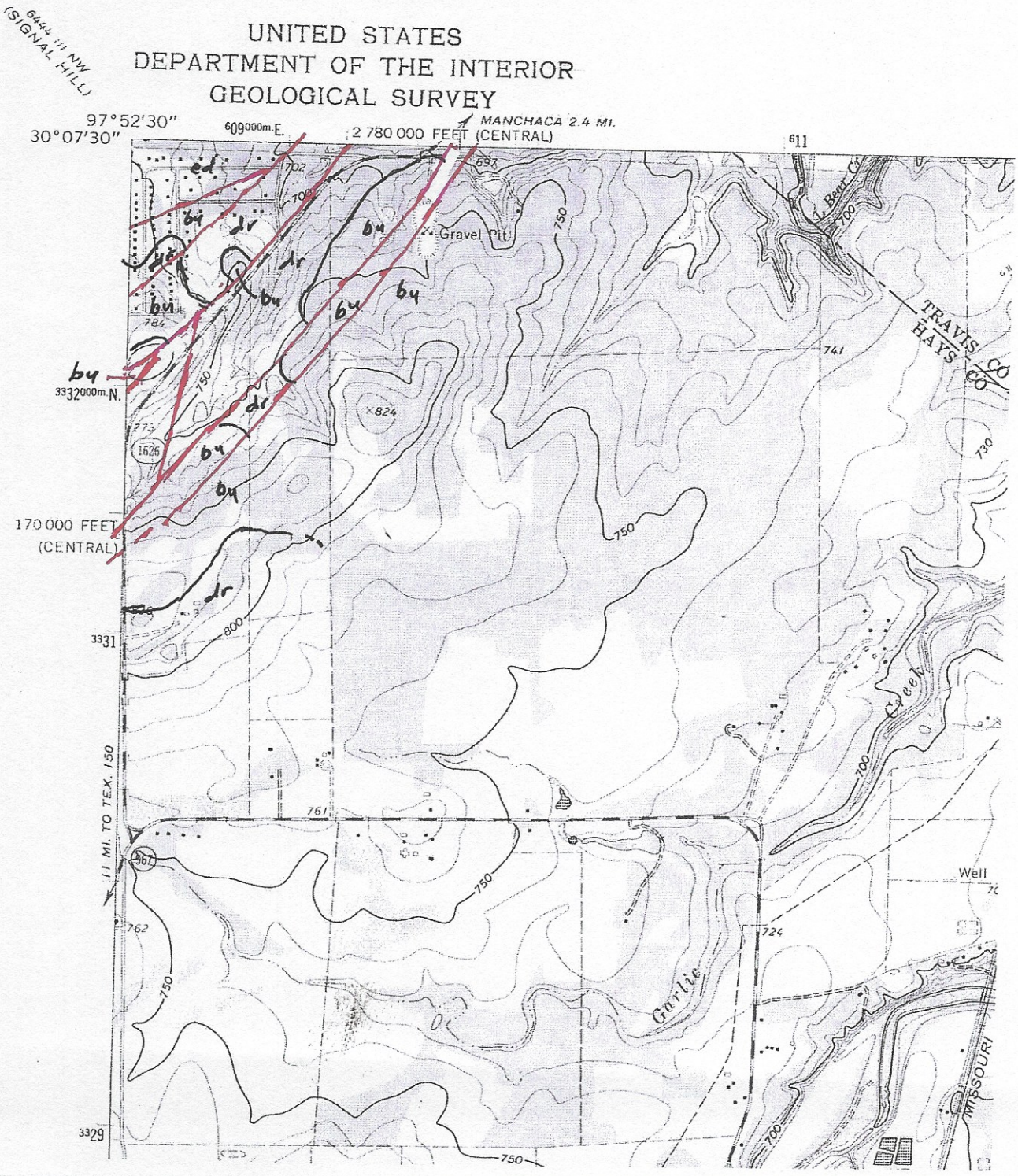
Tier 2


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(DRIPPING SPRINGS)
98°00'
30°07'30"
597000m.E.
598
599
600
967
981
2.3 MI. TO TEX. 150
3332000m.N.
3331
3330
3329
Gravel Pit
Substa
Gravel Pit
Gravel Pit
Gravel Pit
1035
1014
1050
1000
958
963
929
BM
PIPELINE
1077
1036
1050
1032
1026
950
974
Onion Creek
ed
ka
wa
gr
ed
ka
wa


600
57'30"
601
602
(SIGNAL HILL)
603
604
55'
Gravel Pit
955
1000
969
870
Pit
BM
929
950
900
Little
Bear
Creek
Well
889
998
967
927
938
895
BM
892
850
875
948

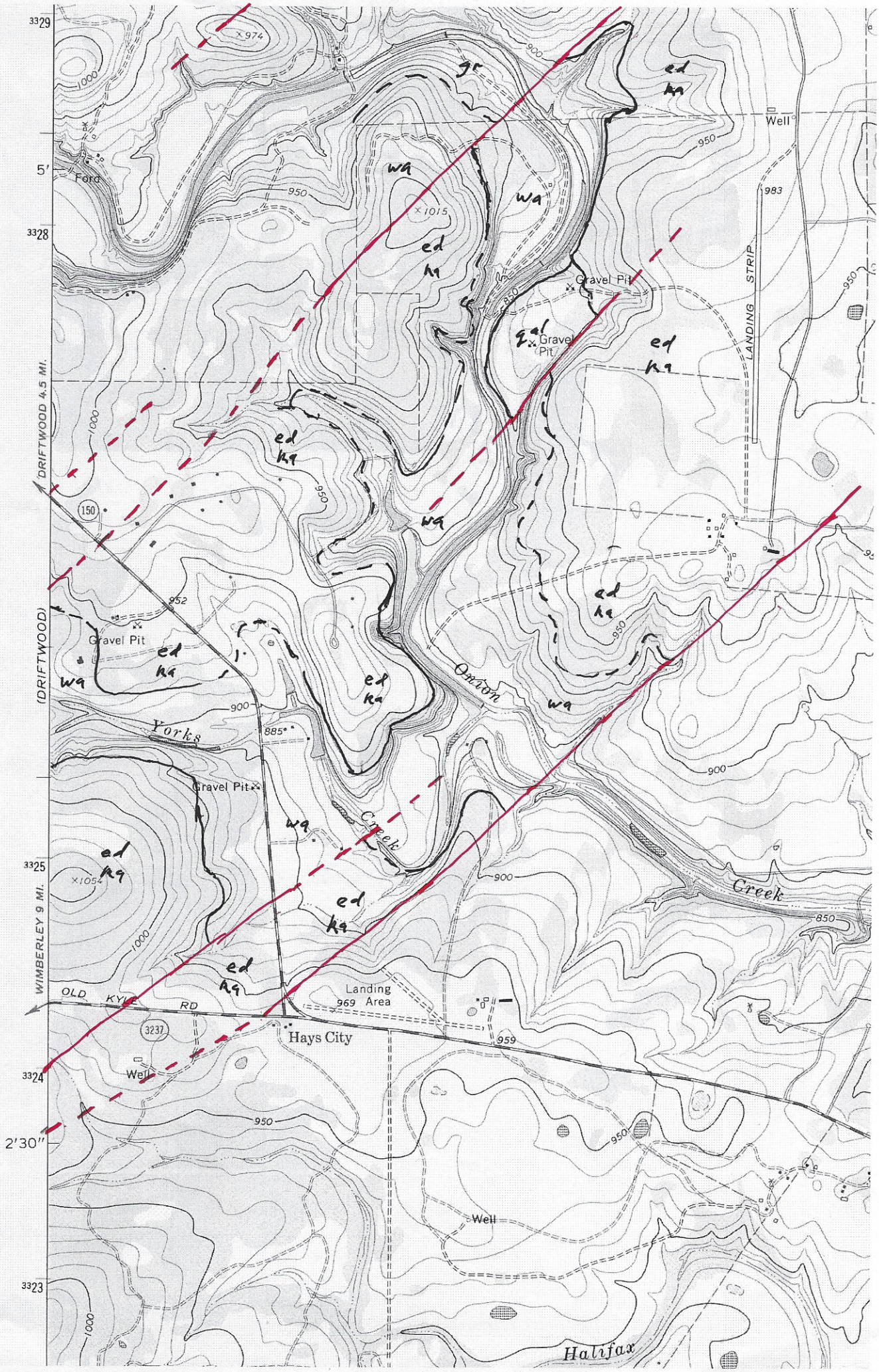
MOUNTAIN CITY QUADRANGLE
TEXAS–HAYS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



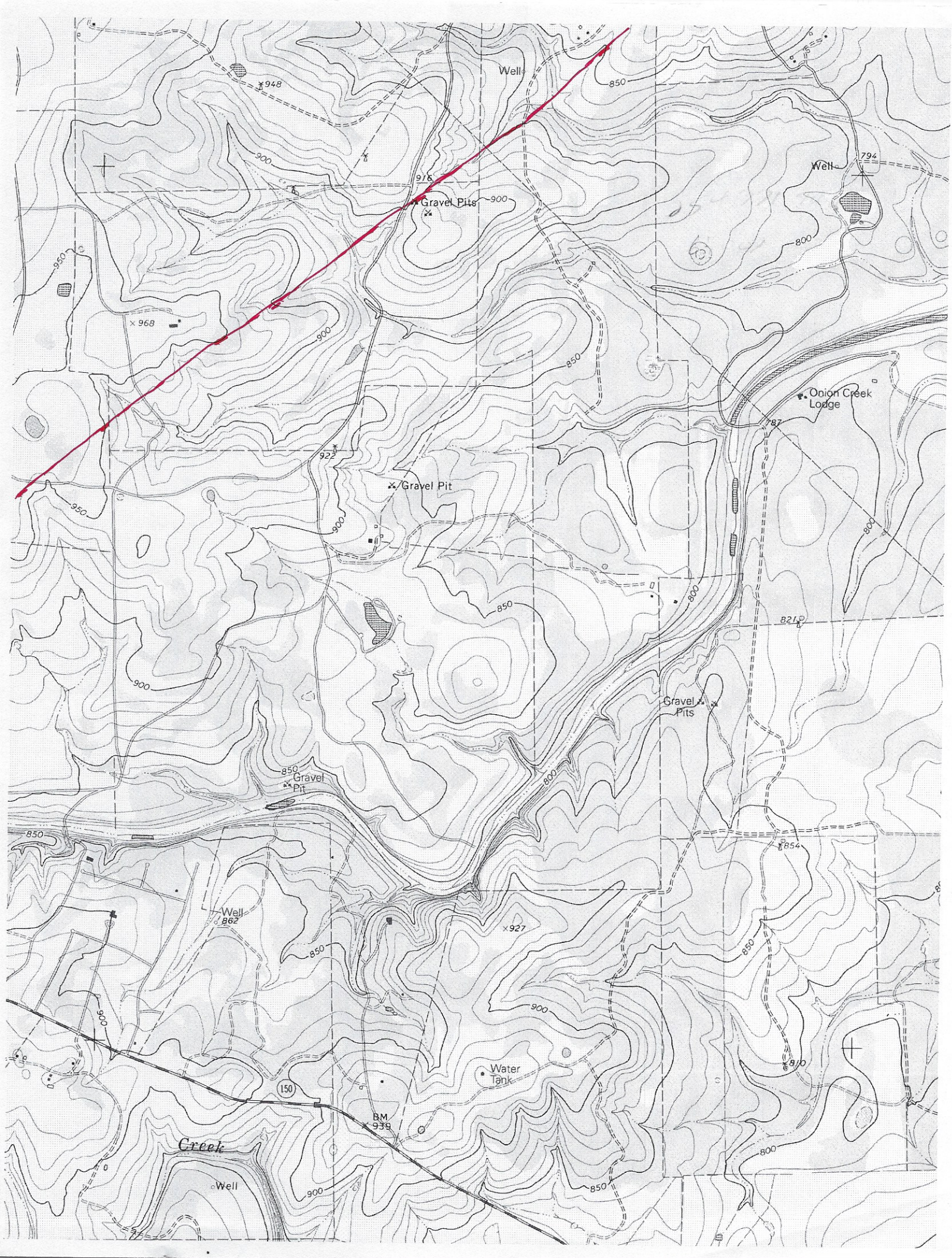

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
6444 III NW
(SIGNAL HILL)
97°52'30"
30°07'30"
609000m.E.
2 780 000 FEET (CENTRAL)
MANCHACA 2.4 MI.
611
Gravel Pit
TRAVIS CO
HAYS CO
3332000m.N.
170 000 FEET
(CENTRAL)
3331
11 MI. TO TEX. 150
Creek
Garlic
Well
MISSOURI
3329
ed
bu
dr
750
800
741
730
724
761
762
784
702
697
1626
567

Attachment A3.

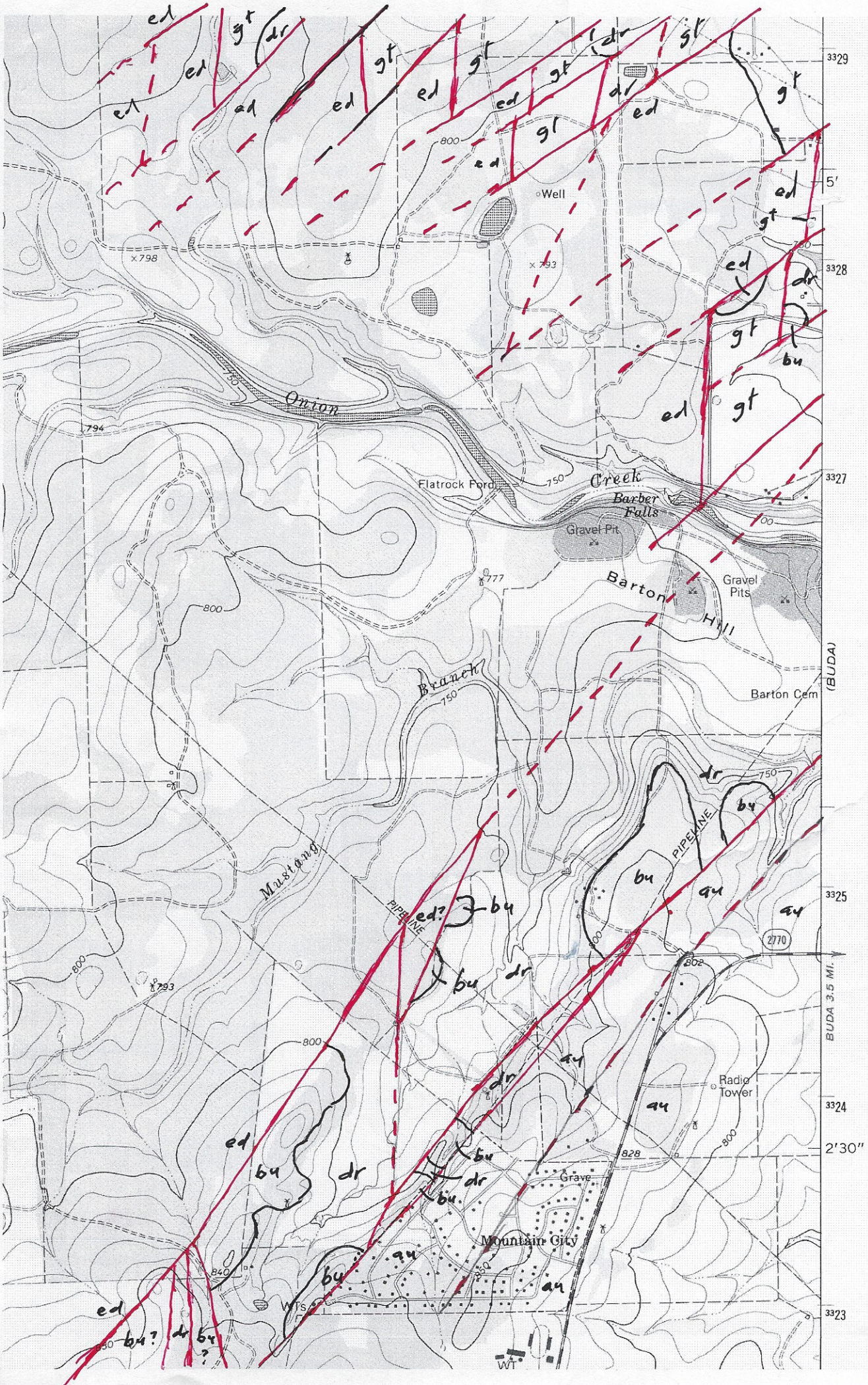
Tier 3



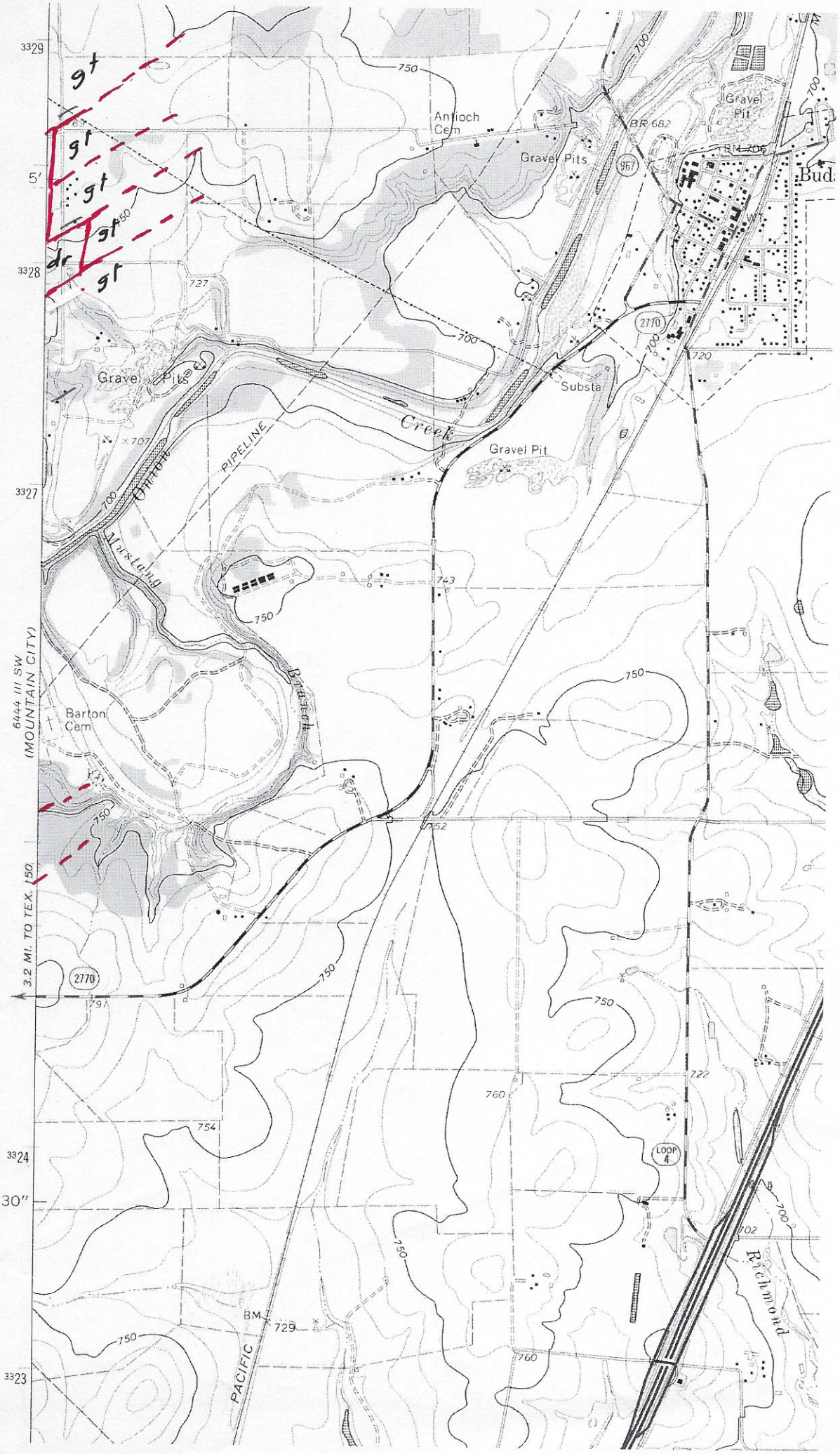
3329
3328
3325
3324
3323
5'
2'30"
DRIFTWOOD 4.5 MI.
(DRIFTWOOD)
WIMBERLEY 9 MI.
Ford
Well
Gravel Pit
Gravel Pit
Gravel Pit
Gravel Pit
LANDING STRIP
Onion
Creek
Creek
Yorks
Landing Area
OLD KYLE RD
Hays City
Well
Well
Halifax
150
3237
974
1015
1054
969
959
983
952
885
900
950
1000
850
gr
wa
ed
ka
qal



Well
948
850
900
916
Gravel Pits
900
Well
794
800
950
968
900
850
Onion Creek
Lodge
787
922
Gravel Pit
950
900
800
850
800
821
900
Gravel
Pits
850
Gravel
Pit
800
850
854
Well
862
927
850
850
900
900
Water
Tank
810
150
BM
939
Creek
800
Well
900
850



Well
Onion
Creek
Flatrock Ford
Barber Falls
Gravel Pit
Barton Hill
Gravel Pits
Barton Cem
Branch
Mustang
PIPELINE
Radio Tower
Grave
Mountain City
WTs
WT
(BUDA)
BUDA 3.5 MI.
2770
5'
2'30"
3329
3328
3327
3325
3324
3323



gt
gt
gt
gt
gt
dr
Antioch Cem
Gravel Pits
Gravel Pit
BR 682
BM 706
967
Bud
Gravel Pits
Substa
Creek
Gravel Pit
PIPELINE
Mustang
Branch
Barton Cem
6444 III SW (MOUNTAIN CITY)
3.2 MI. TO TEX. 150
2770
LOOP 4
Richmond
PACIFIC
BM 729
750
700
727
743
752
754
760
722
702
720
3329
3328
3327
3324
3323
5'
2'30"

Attachment A4.

Tier 4

(WIMBERLEY)

Produced by the United States Geological Survey

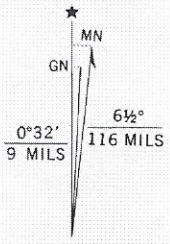
Control by USGS and NOS/NOAA

Compiled from aerial photographs taken 1967. Revisions shown in purple compiled from aerial photographs taken 1986 and other sources and have been field checked. Map edited 1994
Conflicts may exist between some updated features and previously mapped contours

North American Datum of 1927 (NAD 27). Projection and 10 000-foot ticks : Texas Coordinate System, south central zone (Lambert Conformal Conic)
Blue 1000-meter Universal Transverse Mercator ticks, zone 14

North American Datum of 1983 (NAD 83) is shown by dashed corner ticks. The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are obtainable from National Geodetic Survey NADCON software

Areas covered by dashed light blue pattern are subject to controlled inundation



UTM GRID AND 1994 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24000

1 0 1 MILE

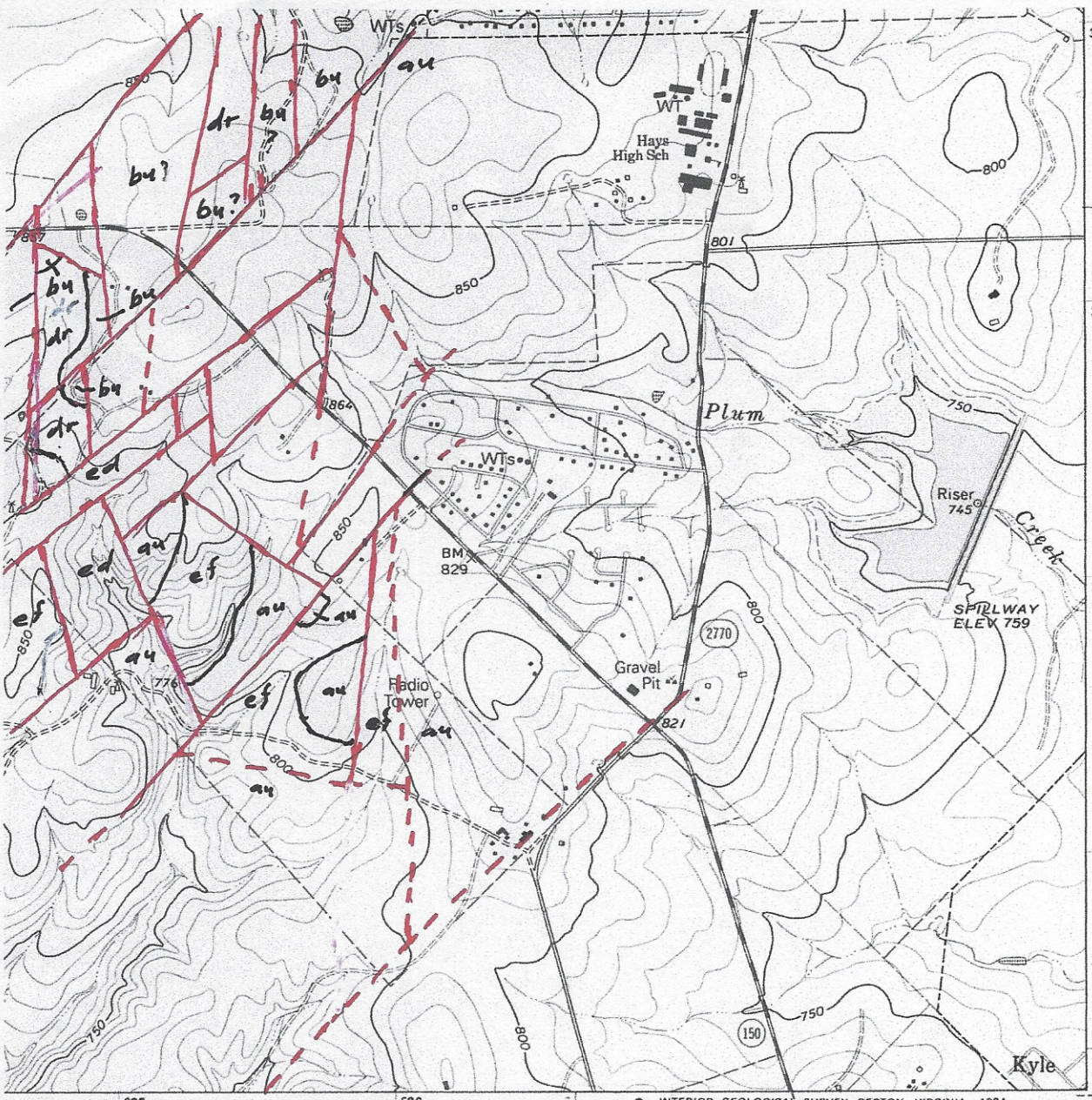
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

NORTH
FEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA—1994

ROAD CLASSIFICATION

Primary highway, hard surface

Secondary highway, hard surface

Light-duty road, hard or improved surface

Unimproved road

Interstate Route U. S. Route State Route

QUADRANGLE LOCATION

3097-222

USGS AND HISTORICAL MAP ARCHIVES
MAY 0 9 1994
REC'D FILE COPY

MOUNTAIN CITY, TEX.

30097-A8-TF-024

1968
REVISED 1994
DMA 6444 III SW-SERIES V882