



ENERCON SERVICES, INC.

PROJECT REPORT
COVER SHEET

No. TXUT-001-PR-013

REV. 0

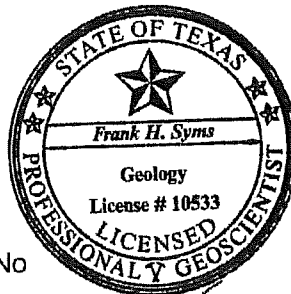
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FIELD RECONNAISSANCE REPORT
for
COMANCHE PEAK STEAM ELECTRIC STATION
COL APPLICATION PROJECT

This report contains a summary and supporting data for geologic field reconnaissance in support of Comanche Peak Steam Electric Station COL Application Project. The notes, maps, and photographs contained herein to provide documentation of field reconnaissance activities.

Field work was performed by WLA geologists in four separate stages consisting of investigations within the site (0.6 mile radius), site area (5 mile radius), local area (25 mile radius), and at features of interest within the site region (200 mile radius).

No Independent Technical Review (ITR) is required as the information contained herein is not utilized for development of calculations or design input.



Frank H. Symms
5-15-09

Independent Review Required: ☐ Yes ☒ No

Prepared by: *Justin Cox*
Justin Cox

Date: 11-21-07

Approved by: *Frank Symms*
Frank Symms

Date: 11-21-07

Michael Leggett

5/29/08



ENERCON SERVICES, INC.

PROJECT REPORT
REVISION STATUS SHEET

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PROJECT REPORT REVISION STATUS

<u>REVISION</u>	<u>DATE</u>	<u>DESCRIPTION</u>
0	11-21-07	Initial Issue

PAGE REVISION STATUS

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1-5	0		

APPENDIX REVISION STATUS

<u>APPENDIX NO.</u>	<u>PAGE NO.</u>	<u>REVISION NO.</u>
A	1- 20	0
B	1- 11	0
C	1-100	0
D	89 Photographs (provided on CD)	0
E	1-4	0
F	1-67	0

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This report contains a summary and supporting data for geologic field reconnaissance in support of Comanche Peak Steam Electric Station COL Application Project. The notes, maps, and photographs are included to provide documentation of our field reconnaissance.

Field work was performed by WLA geologists in four separate stages consisting of investigations within the site (0.6 mile radius), site area (5-mile radius), local area (25-mile radius), and at features of interest within the site region (200-mile radius).

Reconnaissance Summaries

Field reconnaissance 1 was performed during May 16th to 19th. WLA geologists Rick Ortiz, Randy Cumbest, and Frank Syms conducted ground-based field reconnaissance within the site (0.6-mile radius) as well as a regional study (200 mile radius). The first two days of this field study was done within 0.6 miles of the Comanche Peak Steam Electric Station, near Glen Rose, TX. The regional study was done on May 19th and took place near Austin, TX. Detailed field studies were done in Inks Lake State Park as well as Burton Springs, TX. The following items were investigated during field reconnaissance 1:

- Balcones Fault
- Llano uplift
- Marble Falls Formation
- Laurentia Basin Margin Sequence

Field reconnaissance 2 was conducted during June 19th to 22nd. WLA geologists Rick Ortiz and Randy Cumbest performed field work within a 5-mile radius of the CPSES site. The following items were investigated during field reconnaissance 2:

- Mineral Wells Formation
- Glen Rose Formation

Field reconnaissance 3 took place from August 28th to 30th. WLA geologists Randy Cumbest and Stephanie Briggs conducted ground-based field reconnaissance in a 5 mile radius as well as a regional, 20- mile radius. The field party was joined by WLA geologist Rick Ortiz on August 30th to assist finishing up the regional field studies as well as lineament investigations. Prior to conducting the lineament reconnaissance, Rick Ortiz had reviewed and located several target lineaments on aerial photography. The following items were investigated during field reconnaissance 3:

- Stillhouse Hollow Lake Spillway (Edwards Limestone features)
- Twin Mountains Formation
- Mineral Wells Formation
- Lineament investigation
- Surveying of Glen Rose Formation road cut

Field investigation 4 was conducted during October 12th to 15th. WLA geologists Christopher Fuller, Jeffery Unruh, and Stephanie Briggs participated in an aerial reconnaissance of the Mt. Enterprise/Elkhart Graben (MEEG) system in eastern Texas as well as ground-based fieldwork near the Trinity River in Anderson and Leon counties on October 12th. The field party was joined by WLA geologist Keith Kelson for aerial reconnaissance and ground field work in southern Oklahoma October 13th to 15th. The following items were investigated during field reconnaissance 4:

- Criner Fault
- Mt. Enterprise/Elkhart Graben system

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APPENDICES

Appendix A. Typed field notes from 2007 TXU Reconnaissance Trips 1 – 3

Appendix B. Aerial Photo Lineament Interpretation Data Report

Appendix C. Fault Field Study Summary Reconnaissance Report 4 (Criner Fault/Mt. Enterprise Fault-Elkhart Graben)

Appendix D. Catalog of ground and aerial photographs from reconnaissance trips 1 – 4 (digital attachment)

Appendix E. GPS Track Logs for Field Reconnaissance Trips 1 – 4

Appendix F. Scanned Field Notebooks from Reconnaissance Trips 1 – 4

DIGITAL ATTACHMENTS

Appendix D: Catalog of ground and aerial photographs from reconnaissance trips 1 – 4 is provided on the accompanying CD

Field Notes from 2007 TXU Recon Trips 6/13/2007 10:28:00 AM

Notes are compiled from field notes recorded by Randy Cumbest(RC), Frank Syms (FS), Rick Ortiz (RMO) and Stephanie Briggs(SB).

All way points were collected with a Garmin GPSmap 60X; coordinate system: NAD27 CONUS.

STATIONS

5/16/07

STA01: N32.30288, W097.79581; elev. 819 ft, +/- 12.3 ft

RC:

- Wackestone at this location is relatively massive and resistant. Forming a distinct slope break with steeper topography downhill. B1043 located just below lip formed by resistant unit.
- Topographic slope break occurs ~20 ft uphill from B1043 location.

RMO:

- Massive limestone outcrop, laterally continuous to east and west.
- Continuous outcrop is found ~3 ft above and below B1043.
- Limestone outcrops create ledges with less resistant units (shale?) forming steeper slopes. Limestone ledges control slope along hillside and form slope breaks at outcrops.

STA02: N32.30313, W097.79522; elev. 812 ft, +/- 14.1 ft

RC:

- Traverse down steep slope to lake and along flat area to edge of fill.
- Fill obvious from blocky appearance and inclusions of organic matter and tree stumps. Edge of fill forms very steep toe that terminates on flat area.
- Add sketch from notes.

RMO:

- NW edge of fill (ground surface)
- Heavy tree coverage
- Many limestone boulders and tree stumps

STA03: N32.30326, W097.79500; elev. 799 ft, +/- 12.5 ft; Photos: 6,7,8

RC:

- Toe of debris slope, debris toe is very evident from tendency to form steep slope.
- Located ~20ft east of small stream

RMO:

- Northern edge of fill
- Large stumps and sediment flow around established trees. Many boulders of limestone (float rock within fill)
- ~20 ft east of small stream at toe of steep fill slope.
- The fill margin has a steep slope that has approximately 15-20 ft of relief.

STA04: N32.30435, W097.79329; elev. 759 ft, +/- 7.5 ft; Photos: 9,10,11

RC:

- lost his glasses doing the snake dance. No notes for rest of day.

RMO:

- West bank of gully (stream cut) through fill. Banks are vertical and exhibit a range of grain sizes: silts, sands, to cobble and boulder gravels. Traverse from STA03 followed topographic contours (~equal elevation) across a large package of fill. No visible outcrops were observed within smaller stream channels cutting into the fill.
- At STA04 in place limestone outcrops within the main stream cut and is locally forming the channel bottoms within the above mentioned steep gully cut. Fill material is found overlying the outcropping limestone.
- All trees between STA03 and STA04 are all approximately the same age, most are juniper. We estimated age based on the uniform size of the trees.
- ~15 north of STA04 (towards lake) a ledge of massive limestone outcrop forms a knickpoint within the stream channel.
- Add sketch from field book.

STA05: N32.30391, W097.79252; elev. 809 ft, +/- 16.1 ft

- Edge of fill @ fence line

- Extent of fill is obvious and easy to follow up hill from flat area to fence line. Based on visible accumulation of sawed tree stumps and blocks of float material (limestone) that is randomly oriented and appears to have been worked with earth moving machinery. Break in slope at toe of fill is clear and easy to find and follow.

STA06: N32.30333, W097.79095; elev. 776 ft, +/- 10.2 ft

- At B2051 (ground surface)
- Located in middle of slope along the massive wackestone outcrop that forms the main slope break between the "flat" construction parking lot and the lake.

STA07: N32.30322, W097.78962; elev. 819 ft, +/- 15.0 ft; Photos:12,13,14

- Approximately 30 ft west-northwest of MW1209 cluster.
- Large boulders of wackestone stacked against each other.
- Native material to the west and northwest of this point. Identifiable outcrop of native wackestone west-northwest of STA07.

STA08: N32.30319, W097.78944; elev. 790 ft, +/- 15.7 ft; Photo: 15

- North edge of eastern fill package
- Approximately 40 ft north of MW1209

5/17/07

STA09: N32.30161, W097.79748; elev. 838 ft, +/- 10.0 ft; Photos: 16,17

RC:

- Traverse from STA01 followed outcrops of massive

RMO:

- Along creek bed – limestone knickpoint
- Started traverse to STA09 from STA01. Followed limestone outcrop along approximate equal elevation to STA09. Outcrop is continuous, flat lying, and forms a prominent ledge in the area.

STA10: N032.30182, W097.79725; elev. 824 ft, +/- 12.8 ft;

STA11: N32.30253, W097.79713; elev. n/a; Photos: 18,19

- Limestone knickpoint

- Limestone ledge forms step within stream. Large pool below step (~3-4ft deep). Soft yellow-red shale underlies limestone ledge.
- Shale unit is approximately 4-5 ft thick.
- Add Sketch from notes

STA12 (STA12-2): N32.30256, W097.79823, elev. 820, +/-11.7ft;

Photos: 27, 28, 29

RC:

- Aerial photo control point. Located on prominent white, banded unit on aerial photography.
- Pavement outcrop at this location or massive to coarsely bedded wackestone.

RMO:

- Open flat area, visible on air photos.
- Flat outcrop of upper wackestone (visible in aerial photos).
- Headwaters of "middle" stream.
- Limestone forms ledge/knickpoint with trickle of water flowing down to main channel.
- Outcrop is medium gray (N5).

STA13: N32.30266, W097.79793, elev. 810, +/- 16.2ft; Photos: 30, 31

RC:

- Traverse down creek from STA12 shows relatively thickly bedded (~4-6") wackestone.
- STA13 located at small waterfall in creek underlain by relatively weak shale, ~18" thickness exposed.

RMO:

- Stream knickpoint, limestone ledge with a thin shale interbed underneath.
- Shale bed is probably a small interbed within the upper wackestone.
- Local topography is too steep to consider this the first occurrence of the shale unit within this stream channel.

STA14: N32.30344, W097.79699, elev. 773, +/-16.1 ft; Photos:

32, 33, 34, 35

RC:

- Located on NW branch off small creek described at STA13.
- Outcrop consists of relatively thickly bedded (4-6 in) wackestone underlain by thick (>24") shale unit.
- Relatively soft, thinly bedded wackestone to shale floors the creek for >50 ft downstream from this location.

RMO:

- Upper wackestone/shale contact. Again this contact is located within a stream bed (stream #3) and is expressed as a knick point with the wackestone acting as a ledge and the shale being eroded out from under the ledge.
- This contact morphology is common to major and minor contacts between the main limestone units and the associated shale interbeds.
- Units (limestone and shale) exposed within the streambed are highly weathered and soft when hit with a hammer.

STA15: N32.30375, W:097.79789; elev. 839 +/- 18 ft

RC:

- Traverse up the creek from STA14 to this location shows mostly alluvium with no recognizable outcrops.
- Clearly discernable thickly bedded (4-6") wackestone outcrop at this location. Scattered outcrops of wackestone are located nearby in the cedars.

RMO:

- Within streambed of "stream #3". First good location of upper wackestone outcrop. Downstream of this location the stream channel is dominated by an alluvial sediment package. Banks are relatively steep, but the "floodplain" of the stream is relatively wide (~100 ft) with heavy vegetation and low lying medial bars.

STA16: N32.30404, W097.79809; elev. 831 +/- 18 ft; Photos 36,37

RC:

- Outcrop of massive, light orange to greenish gray, extremely hard grainstone-wackestone. Contains ooids, sparitic?
- Forms prominent ledge in creek

- This unit is overlain and underlain by thickly bedded wackestone.
- Outcrop of the same occurs in bottom of the creek to the south of this location about 50 ft.

RMO:

- Outcrop of sparitic limestone. Limestone is very hard, numerous hammer blows to break off a chunk). Limestone ledge is highly weathered. Wackestone to packstone, oolitic. Recrystallization is probably diagenetic in nature.
- This unit is probably the main ridge forming unit because of its strength.
- Unit outcrops again approximately 50ft to the southwest (outcrop #2), located at: N32..18243, W097.4788.

STA17: N32.24856, W097.73594; elev. 611 +/- 8.8ft; Photos: 42,43,44

RC:

- Building stone quarry on NE edge of Glen Rose, TX.
- Massive to thinly bedded wackestone (photo 42).
- Fresh cut face behind new construction shows shaley unit at base (photos 43 and 44).

RMO:

- Large excavation, next to Highway 67.

STA18: N32.28658, W097.71068; elev. 641 +/- 12ft; Photo: 45

RC:

- Outcrop located on FM 200 at BM682
- Massive to thinly bedded wackestone. Sparitic unit forms predominant ledges at this location. Hand sample collected.

RMO:

- Sparitic limestone outcrop east of Glen Rose, TX off of FM 200, near BM682.
- At bend in road east of prominent lineament.

5/19/07

STA19: N30.64660, W097.85293; elev. 1004 +/- 9.8 ft; Photos:
46,47,48,49,50

RC:

- Outcrop of blocky limestone on HWY 29 just east of intersection with HWY 183.
- This outcrop should be located near the fault shown on the tectonic map of Texas. However, no evidence of deformation in this outcrop, except for one location that shows ~2ft offset.
- After leaving this station and crossing HWY 183 we will join the field trip itinerary given in Austin Geological Society Field Trip Guidebook 24.

RMO:

- Route 29, west of Georgetown, TX.
- Limestone road cut, limestone has a blocky texture with a fine grained matrix.
- Shell rich with many bivalve fragments.
- Fault located within middle of outcrop, with approximately 2 ft of offset, down to the west.
- ADD SKETCH FROM NOTES

STA20: N30.76669, W098.32692; elev. 1126 +/- 13 ft

RC:

- Outcrop located on the north side of HWY 29, a few miles west of Burnett.
- Pink to brown fine grained K-spar, plag, biotite gneiss. With alternating layers of K-spar and biotite rich layers.
- Concordant pegmatite layers are also common.

RMO:

- Deformed granite (gneiss), found in road cut west of Burnett, TX, fine grained with some pegmatitic veins.

STA21: N30.74769, W098.35863; elev. 917 +/- 8.1 ft; Photos:
51,52,53,54,55

RC:

- Devil's Watering Hole, Inks Lake State Park.
- Valley Springs Gneiss
- Early gray biotite-rich unit intruded by pink K-spar rich granite.

RMO:

- Devil's Watering Hole, Inks Lake State Park.

- Massive, highly deformed gneiss, pink (K-spar rich) and black (biotite rich). Numerous dikes of felsic material intruded into the more mafic gneissic material. Mafic unit appears to be more deformed than the felsic unit.
- Valley Springs (Inks Lake?) Gneiss.

STA22: N30.69607, W098.37701; elev. 1121 +/- 16 ft; Photos: 56,57

RC:

- Paleozoic section (Ellenberger) thrust faulted over Precambrian granite.
- Traverse back down into Hoover valley along the road shows the limestone becomes progressively more deformed (brecciated) near a thrust fault.

RMO:

- Ellenberger limestone, Paleozoic limestone, highly fractured, dips steeply to the east at ~45 degrees, strikes ~060 degrees.

STA23: N30.64506, W098.41545; elev. 984 +/-16; Photos: 58,59

RC:

- Cambrian Cap and Lion(?) Mountain Sandstone occur in road cut to north side of the road(?).

RMO:

- Hoover Overlook, south end of the Devil's Backbone.
- Cambrian sedimentary rocks (sandstones, turbidites, shales) are thrust over granite (granite not visible).
- Brittle deformations, normal sense of movement within fractures, along with earlier ductile deformation.
- Beds within antiforms and synforms have been brittly deformed with a series of fractures (all with a normal sense of movement), some form "horst and grabben" type structures within the outcrop.

STA24: N30.27949, W097.90188; elev. 829 +/-7.3ft

RC:

- Location where Barton Creek crosses Southwest Parkway. Bottom of Balcones fault escarpment according to Field Guide #21.

- Driving east on Southwest Parkway the road ascends the escarpment.

RMO:

- Balcones fault zone, no exposed units (heavy vegetation) along Southwest Parkway next to Barton Creek. No exposure at this location. Escarpment forms valley wall? Is it the controlling feature at this location?

STA25: N30.26375, W097.77041; elev. 417 +/-16ft; Photos 62-65

RC:

- Balcones fault exposure at Barton Springs. Georgetown limestone to the east, Edwards limestone to the west.
- Stop 7B in Guidebook 16.

RMO:

- Zilker Park – Austin, Tx
 - Balcones fault at Barton Springs. Offsets Edwards limestone (on west) against the Georgetown limestone (on east).

6/19/07

STA26: N32.30474, W097.80611; elev. 864 +/-13.3ft

RMO:

- E-W access road off of transmission line road.
- Glen Rose (upper wackestone) outcrops at top of ridge.
- Float and out crop visible at surface from truck location to STA06.

STA27: N32.30766, W097.80040; elev. 843 +/-10.2ft

RMO:

- Top of ridge, wackestone outcrop
- Wackestone is flat lying and forms prominent pavement at top of ridge.

STA28: N32.30787, W097.80004; elev. 804 +/-20.4ft

RMO:

- Wackestone/shale contact.

- Slope steepens and wackestone outcrop and float disappear. Surface water is more prominent at this location. Probably due to contact with more impermeable shale unit.

STA29: N32.30820, W097.79956; elev. 786+/-12.6ft

RMO:

- Lower wackestone bed located within creekbed.
- Continuous, visible outcrop along bed of creek for about 20 ft.

STA30: N32.30969, W097.79679; elev. 748+/-10.0ft; Photo 85

RMO:

- Lower wackestone at edge of Squaw Creek reservoir, along new barbwire fence.
- Wackestone has convoluted bedding and visible mudcracks ~2.5" wide (photo 85).

STA31: N32.30385, W097.80119; elev. 854+/-11.8ft

RMO:

- Wackestone outcrop on top of ridge. No sand (Paluxy).

STA32: N32.30743, W097.79288; elev. 763+/-14.6ft

RMO:

- Lower wackestone at edge of Squaw Creek reservoir. Located at point where stone wall (pre-1949) meets lake surface. We followed the shale unit above and crossed the wall twice before reaching this station.

STA33: N32.30193, W097.80705; elev. 881+/-11.1ft

RMO:

- Paluxy sand: red, clayey, sand, fine to very fine grained, sticky.
- Along north-south road (dirt) north of visitors center. Paluxy sand is exposed at the surface on both the west and east side of the road. Flat, low lying surface morphology in the area of exposure, no trees (cleared – probably). Location is north of railroad track.

6/20/07

STA34: N32.29319, W097.80386; elev. 800+/-13.2ft

RMO:

- White wackestone cap rock. Prominent bed of the upper wackestone with shale interbeds above and below unit.
- Across road this white wackestone unit forms a prominent knick point within a small creek. High water flow over the ledge forms a waterfall.
- Hand sample collected: STA34-HS-22; wackestone, sparitic, oolitic

STA35: N32.28704, W097.79297; elev. 873+/-16.4ft

RMO:

- Paluxy sand; red, clayey sand.
- Along the road to TXU picnic area and gun range.

STA36: N32.29150, W097.75818; elev. 662+/-10.9ft

RMO:

- Lower Glen Rose formation, very shaley, many think to very thin interbeds of wackestone and shale. Highly weathered and yellow.
- At the base of the main Squaw Creek reservoir the beds appear to be deformed; small anticlinal fold.
- Orientation along wackestone bed at STA36 (east to west)
 - 320/004N
 - 320/005N
 - 335/009N
 - 315/022N
 - 310/010N
 - 280/013N
- Location of the hinge of the structure: N32.29137, W097.75795, elev. 656+/-15.5ft.
- Additional Orientations of beds and joints at STA36

Lower Bed (#1)(bedding)	Thick Wackestone Bed (#2)(bedding)	Thick Wackestone Bed (#2)(joints)	3 rd bed from bottom (#3)(wackestone) (bedding)	3 rd bed from bottom (#3)(wackestone) (joint)	Top Bed (5 th) wackestone bed (joints)
005/025	003/065	330/084	011/022	018@028 orientation;	020/090

				no dip	
005/025	003/022	340/090	006/040		035/090
005/030	006/028	060/090	004/028		
		038/063	009/025		
		010/080	014/020		
		010/090	010/025		
		110@090 orientation; no dip	009/030		
			002/050		

6/21/07

STA37: N32.29740, W097.79990; elev. 839+/-9.0ft

RMO:

- Along 4x4 road southeast of established dirt road south of the guard shack.
- Contact between upper wackestone and middle shale unit. Wackestone is outcropped within road and "walls" of road cut. The wackestone is sparitic.

STA38: N32.29676, W097.79382; elev. 813+/-13.9ft

RMO:

- Along the main plant road south of SSB ad north of Delmon's office building.
- Interbedded wackestone and shale outcrops along road cut trending east-west. Lower limestone bed at base of road has a visible joint set with 2 dominant orientations: 010-355/088W and 270/055S.
- Hand sample: STA38-HS-23
- Joint Set Orientations:
 - 010/088W
 - 010/088W
 - 355/088W
 - 270/055S
 - 270/055S

STA39: N32.26288, W097.76198; elev. 793+/-11.9ft

RMO:

- Approximate Paluxy/Glen Rose Contact
- From the junction of CO313(?) loop to CO301A; Paluxy formation is visible at the surface along the road and within fields and yards.
- STA39 is the first occurrence of Glen Rose along this road.

STA40: N32.27636, W097.76096; elev. 806+/-9.1ft

RMO:

- Eastbound on CO313, we are at the last visible outcropping of the Paluxy sand.
- East of STA40, Glen Rose begins to outcrop along the road and in driveways.
- Paluxy probably extends south and west of CO313 because the area is being used for pasture and farming. This is a typical land use in areas where the Paluxy is present.

STA40-A: N32.27712, W097.75945; elev. 797+/-12.5ft

RMO:

- Glen Rose on both sides of CO313. Paluxy has pinched out at this location as the road (CO313) continues to drop in elevation to the east. Also, farm and pasture land use has not extended this far east along CO313.

STA41: N32.23315, W097.77296; elev. 657+/-10.9ft

RMO:

- Along Highway 67 towards Glen Rose, TX.
- Quarry excavation; large, extensive exposure of Glen Rose formation.
- Thin to thick bedded wackestone and shales. The outcrop is "classic" Glen Rose fm.

STA42-A: N32.30403, W097.84562; elev. 1001+/-17.8ft

RMO:

- Handsample: STA42-A-HS-24 and STA42-A-HS-25
- Farm Road 51: east of Hill City, Paluxy formation

- Paluxy sand at this location consists of thin to medium beds of interbedded fine-grained sandstone (moderately indurated) and shale. Sandstones are predominantly very fine to fine sands and range between slightly oxidized, poorly cemented sandstone to highly oxidized, moderately-well cemented (iron oxide and carbonate cementation) sandstone. The poorly consolidated beds are buff to gray in color, the highly oxidized beds are yellow/orange to red in color.
- At STA42-A the beds are flat lying with no apparent dip.

STA42-B: N32.30286, W097.84483; elev. 1002+/-15.8ft

RMO:

- ~30 yards east of STA42-A on FM 56 east of Hill City.
- Paluxy sand at this location are similar to the beds at STA42-A, except beds are deformed. They are tilted up to the east with a dip of approximately 20W.
- Calcite mineralization along near vertical joint sets are prevalent through out the deformed beds. Most mineralized joints are found within the upper shale beds, whereas the joint sets (with similar orientations) within the lower sandstone beds do not appear to be heavily mineralized.
- Orientations of Paluxy sand beds at STA42-B:
- Bedding:
 - 215/15W
 - 235/17W
 - 213/18W
 - 187/23W
 - 185/18W
- Joints:
 - 022/88E
 - 043/67E
 - 015/64E

6/22/07

STA43: N32.36804, W097.79338; no elev. Recorded.

- Paluxy sand and Walnut Creek (?) limestone contact

- Along Neri Road eas of Comanche Peak (~1mi)
- At base of slope Paluxy is visible within the small road cuts (~2ft high) and along the fence line. The Paluxy is red-orange, clayey sands at this location.
- West of the contact the "Walnut Creek" limestone forms a local topographic high towards Comanche Peak. Medium beds of limestone are outcropping at the surface primarily along the north side of Neri Road.

STA44: N32.36609, W097.80082; elev. 1001 +/- 10.8 ft

- Paluxy/Walnut Creek contact
- Along Neri Road, Paluxy is visible along the south side of Neri Road at base of small hill.
- Traverse along Neri Road between STA43 and STA44 was comprised of the "Walnut Creek" formation.
- Paluxy begins to be exposed at surface at base of a hill near the location of a large oak tree.

STA45: N32.36904, W097.80674; elev. 995 +/-7.6 ft

- Paluxy/Walnut Creek (?) contact
- ~1/4 mile north of Neri Road/Peak Road intersection
- towards base of slope
- we had Paluxy formation visible at surface from STA44 to STA45
- begin the climb up the slope, visible Paluxy formation drops out. Prominent limestone beds are outcropping at the crest of the hill as you travel north along Peak Road.

STA46: N32.33877, W097.84071; no elev. Recorded

- Squaw Creek Materials – Excavation Pits
- Large, extensive exposure of the Glen Rose formation
- Thin to massive bedding, flat lying, orange-yellow (weathered) to gray (fresh), micrite to grainstone.
- Upper beds are sparitic, shell hash layers (gastropods) are thick and prevalent within the upper sparitic beds.

STA47: N32.33904, W097.83913; elev. 902 +/- 11.0 ft

- Squaw Creek Materials – Excavation Pits
- Localized, apparent angular unconformity.
- Packstone (grainstone) to wackestone beds (thin to massive) appear to be slightly tilted in a very localized point of the excavation wall. Flat planar bedding is visible to the southwest and northeast of the feature (~20 ft on either side).
- The limestone units are overlain by a well stratified, thick bedded shale dominated unit.

STA48: N32.34781, W097.80870; elev. 889 +/- 11.5 ft

- Glen Rose/Paluxy contact
- Along Cripple Creek Road (runs NW-SE)
- Glen Rose found along side of road near SE end of road.

STA49: N32.35100, W097.78347; elev. 914 +/-13.3 ft

- Paluxy/Walnut Creek (?) contact
- Again typical Paluxy/Walnut Creek morphology
 - Paluxy forms relatively flat, gently sloped landscape used as pasture and/or hay fields.
 - Walnut Creek (?) is forming a knob or ridge approximately on trend with Comanche Peak, which rises above the surrounding Paluxy

Notes from Lineament Recon:

- Around the CPNPP. Identified by the assigned lineament ID (FID) assigned by K.Whaley and current as of 8/30/07.

8/28/07

STA50: N31.01383, W097.53713; no elev. Recorded; photos 114, 115

RC:

- Spillway cut ~1/2 mile south of dam.
- Small offsets in ~18" massive sandstone unit.

STA51: N31.01400, W097.53796; no elev. Recorded; photos 116, 117, 118, 119

RC:

- Small fold/fault in massive thickly bedded unit ~50m west of last location.
- Fault/fold has ~ 1m wavelength
- Closer inspection shows a fracture that is probably the calcified joint surface propagating down through both units.
- 30m west of STA51: photos 120, 121, 122

STA52: N31.01031, W097.54099; no elev. Recorded; photos 123, 124, 125, 126

RC:

- Looking south on south wall of spillway.
- Collapse feature showing down turned bends in bedding.
- Closer inspection shows small faults in unit below down turned bends.

SB:

- Big voids/caves.
- Massive bed is disrupted.

STA53: N31.00946, W97.53670; no elev. Recorded; photo 127

RC:

- Downward bend in south wall of spillway.

SB:

- Big symmetrical syncline (10m across).

STA54: N31.01376, W97.53475; no elev. Recorded; photos 128, 129, 130, 131, 132, 133

RC:

- Down folded beds on north wall of spillway.
- This feature has ~6" wide zone of breccia in its core.

SB:

- Zone of crap – unconsolidated material.
- West side up? Maybe consistent with other NW wall features, but generally a localized process close to time of deposit.

STA55: N32.29277, W97.80470; no elev. Recorded

RC:

- Lineament 68 - Attempted to observe lineament in creek. Pond obscures observation.

SB:

- Lineament 68 - At dead end of county road 325. There is a "lineament check" from the air photos, but now there is a small pond.

STA56: N32.80960, W98.10374; no elev. Recorded; photos 134, 135

RC:

- Mineral Wells Formation exposed in cut on south face of Cast Mountain in Mineral Wells, TX.

SB:

- Mudstone with a few coarser beds.
- At the top of East Mountain (just ENE of the intersection of highways 180 & 281 a more coarse sandstone is exposed.
- Entire unit is brown, gray, and green. Blue gray mudstone is more resistive than siltstone/sandstones.
- Some purple/green mudstones above that, then coarser layers at very top.

STA57: N32.29696, W097.77021

- Lineament 101 – unclassified in photos: @ shoreline, limestone outcrop
 - 101: located along shoreline, appears to be a straight section of limestone outcrop. Could possibly be an old channel margin of Squaw Creek prior to incision.
- Lineament 102 – Veg Lineament in photos; surface has been modified, no evidence of lineament.
 - 102: line of trees along edge of modified area at top of artificial slope. No apparent lineament present. Small drainage with very young vegetation appears to have formed after modification of surface.

Lineament 120: present surface is modified and covered with buildings.
Completely disturbed surface

Lineament 68: on residential street, surrounded by private property

- Lineaments 68, 69 and 71 are all associated with an incised stream channel within the glen rose formation. Exposed bed rock in the area does not appear to be deformed.

Lineament 70: bedrock controlled lineament (outcrop) along valley margin

Lineaments 79 and 85: on private property, no access

Lineament 100: vegetation lineament in old photos, which crossed perpendicular to a ridge. At the location where #100 crosses small dirt road there is an old barb wire fence trending in the approximate direction of #100. This fence line (or earlier versions of) may be the underlying cause of #100. Therefore #100 is interpreted as a probable cultural artifact, and not a lineament.

Lineaments 106 and 107: break in slope along valley margin, probably formed by the creek and controlled by bedrock. Checked in stereo: rock exposed orthogonal to lineaments is undeformed and flat lying (glen rose frm.)

STA58: N32.28577, W097.71339; no elev.

- Glen Rose/Quaternary Contact
- Qt: this surface is higher than the terrace surface just west of the ridge (and closer to the river). Undeformed contact and terrace surface.

Lineament 91: tonal contrast lineament. Light contrast change across the landscape in air photos. Area is now heavily vegetated and inspection of ground surface does not indicate any significant features. #91 does correspond with a hillslope. Upslope from location, a fence line and road follows the approximate trend of #91, thus #91 is probably a cultural artifact.

Lineament 90: "straight" shoreline segment of Squaw Creek reservoir. Glen Rose formation outcrops at surface of the lake. There is a subtle slope break ~100 yards from the lake surface but this break appears to be misaligned with the original linament. No road access to #90. All observations are from across a small branch of the reservoir near the offices of Squaw Creek Park and boat ramp. Area around #90 is heavily vegetated and overgrown.

Lineament 66: vegetation lineament located at guard shack for Squaw Creek Park. This area has been disturbed and built upon. The overgrowth of trees around the perimeter have obscured the 1949 lineament. This is the local high point and has been used extensively for agricultural purposes. #66 is interpreted as the contact between the Glen Rose and Paluxy.

Lineament 150: undeformed bedrock outcrop orthogonal to lineament. Lineament is along a stream channel.

Lineament 133 (south): shallow swale witch runs thru the field to the north. No visible surface expression except for the swale thru the field. There is a subtle rise within the field with trees north of the field.

Lineament 133 (north): in the general area of 133-N, there is a topographic high point with the paluxy formation outcropping at the surface. Probably remnant limestone ridge (Walnut Creek?).

Lineament 125: subtle rise in ground surface at this point. Appears to extend along either side of the road.

1.0 INTRODUCTION

This data report describes the procedure used to identify and classify lineament features observed on historical aerial photos within a 5-mile radius of the Comanche Peak Nuclear Power Plant (CPNPP) site. This document describes the sources of aerial photos used, as well as the distinguishing criteria used to classify each observed lineament.

The preparation of this COL Data Report was performed under Enercon's Quality Assurance Project Planning Document (QAPPD) using data collected under Project Instructions.

2.0 METHODOLOGY

USGS stereo-paired aerial photos were acquired from the Texas Natural Resources Information System (TNRIS) in order to provide coverage of the designated 5-mile radius surrounding the study site at CPNPP. The aerial photos were originally acquired in 1948 and 1949. Appendix A lists all frames utilized during this investigation. The primary purpose of this exercise was to identify any surficial features that may indicate the presence of near-surface structures (e.g., faults) within the 5-mile radius of CPNPP. Features of interest were identified and classified, if possible, as the following types of lineaments:

1. **Vegetation Lineament:** Interpreted linear features associated with noted changes in vegetation types, density, or distribution.
2. **Stream Lineament:** Reaches of streams, creeks, and rivers that appear linear.
3. **Topographic Lineament:** Interpreted geomorphic feature associated with topographic relief.
4. **Tonal Contrast Lineament:** Uninterrupted linear feature where distinguishable variation in tone is observed and appears aligned straight, which differs from adjacent features.

All linear features that could not be grouped into one of the above categories were identified as unclassified lineaments and were checked in the field. Linear features readily identified as anthropogenic or cultural artifacts were observed, but not classified due to the number and density of features present in each aerial photo. These features included agricultural boundaries, fence lines, roads, railroads, pipelines, and construction.

3.0 RESULTS

A total of 184 potential lineaments were identified within the 5-mile radius of CPNPP. These included 89 lineaments identified in Hood County and 95 lineaments identified in Somervell County. A breakdown of lineaments by type is listed in Table 1 below. Table 1 also lists the number of lineaments identified in each county. We primarily were able to identify vegetation, tonal, and unclassified lineaments. During our investigation we also initially identified a number of potential stream lineaments, but upon further field investigation and photo interpretation we were able to classify them as non-structural elements of the landscape. The straight-stream segments were incised stream channels controlled by the bedrock into which they had incised. Observations of the accessible bedrock outcrops within the vicinity of the bedrock-controlled, straight-stream sections did not record the presence of any deformed

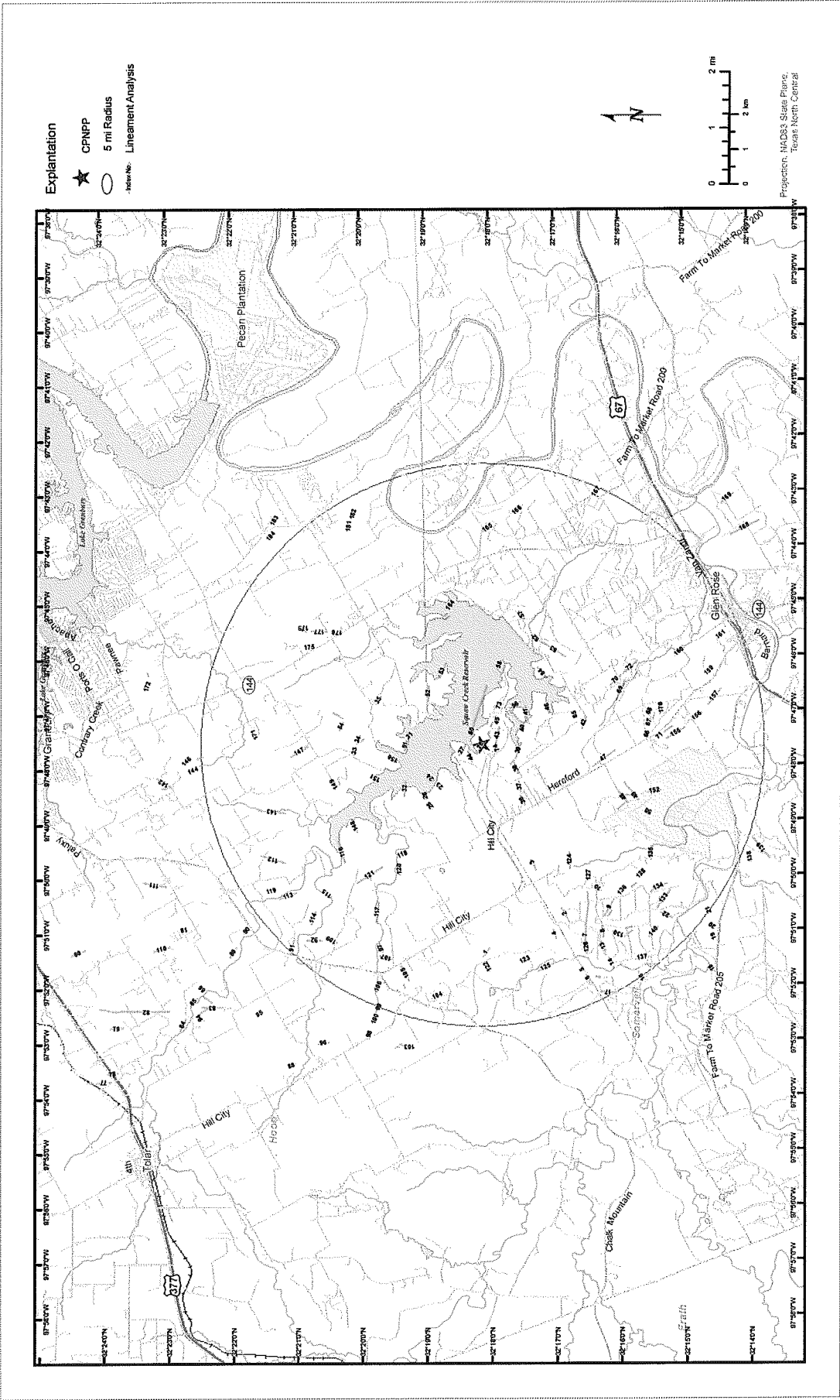
beds; the presence of deformed beds may have suggested a localized and/or regional pattern of deformation.

In addition to field-checking the unclassified lineaments and stream lineaments, field reconnaissance was performed in order to verify any potential vegetation or tonal lineaments. Due to heavy vegetation overgrowth and extensive anthropogenic modifications of regional surfaces we were unable to identify any additional lineaments within the 5-mile radius of CPNPP. We were also unable to reliably confirm any vegetation or tonal lineaments due to the extensive vegetation overgrowth and anthropogenic modifications in the region.

Lineament Type	Totals	County	Totals
Vegetation	118	Hood Co.	89
Tonal	29	Somervell Co.	95
Unclassified	37	Total:	184
Total:	184		

Table 1. Compilation of identified lineaments by type and county

We digitized all identified lineaments and projected them into a GIS (Figure 1). Figure 1 depicts the 5-mile radius surrounding CPNPP and displays all identified potential lineament in the vicinity of CPNPP.



WLA
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APPENDIX B
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Lineament Analysis within 5 mi Radius Around CPNPP
Figure 1

FRAMES USED IN PHOTO INTERPRETATION

<u>INDEX</u>	<u>TYPE</u>	<u>TILE NUMBER</u>	<u>COUNTY</u>
1	Vegetation	31	Hood
2	Vegetation	31	Somervell
3	Lineament Check	31	Somervell
4	Vegetation	31	Hood
5	Vegetation	31	Hood
6	Vegetation	31	Hood
7	Lineament Check	31	Somervell
8	Tonal	32	Somervell
9	Tonal	32	Somervell
10	Tonal	32	Somervell
11	Tonal	32	Somervell
12	Tonal	32	Somervell
13	Tonal	32	Somervell
14	Tonal	32	Somervell
15	Tonal	32	Somervell
16	Tonal	32	Somervell
17	Tonal	32	Somervell
18	Tonal	33	Somervell
19	Tonal	33	Somervell
20	Vegetation	33	Somervell
21	Vegetation	33	Somervell
22	Lineament Check	33	Somervell
23	Tonal	45	Hood
24	Vegetation	45	Hood
25	Vegetation	45	Hood
26	Vegetation	45	Hood
27	Vegetation	45	Somervell
28	Lineament Check	45	Somervell
29	Lineament Check	45	Somervell
30	Lineament Check	45	Somervell
31	Vegetation	45	Hood
32	Vegetation	45	Hood
33	Vegetation	45	Hood
34	Tonal	45	Hood
35	Vegetation	45	Hood
36	Vegetation	46	Somervell
37	Lineament Check	46	Somervell
38	Lineament Check	46	Somervell
39	Lineament Check	46	Somervell
40	Lineament Check	46	Somervell
41	Tonal	46	Somervell
42	Lineament Check	47	Somervell

FRAMES USED IN PHOTO INTERPRETATION

<u>INDEX</u>	<u>TYPE</u>	<u>TILE NUMBER</u>	<u>COUNTY</u>
43	Vegetation	47	Somervell
44	Vegetation	45	Somervell
45	Lineament Check	47	Somervell
46	Lineament Check	47	Somervell
47	Vegetation	47	Somervell
48	Lineament Check	48	Somervell
49	Lineament Check	48	Somervell
50	Tonal	48	Somervell
51	Lineament Check	61	Hood
52	Tonal	61	Somervell
53	Tonal	61	Somervell
54	Vegetation	61	Hood
55	Lineament Check	61	Hood
56	Lineament Check	62	Somervell
57	Vegetation	62	Somervell
58	Lineament Check	62	Somervell
59	Vegetation	62	Somervell
60	Lineament Check	62	Somervell
61	Lineament Check	62	Somervell
62	Lineament Check	62	Somervell
63	Lineament Check	63	Somervell
64	Vegetation	63	Somervell
65	Tonal	63	Somervell
66	Vegetation	64	Somervell
67	Vegetation	64	Somervell
68	Vegetation	64	Somervell
69	Vegetation	64	Somervell
70	Vegetation	64	Somervell
71	Lineament Check	64	Somervell
72	Tonal	64	Somervell
73	Lineament Check	47	Somervell
74	Vegetation	47	Somervell
75	Vegetation	47	Somervell
76	Lineament Check	47	Somervell
77	Vegetation	126	Hood
78	Vegetation	126	Hood
79	Vegetation	126	Hood
80	Vegetation	126	Hood
81	Vegetation	126	Hood
82	Lineament Check	126	Hood
83	Lineament Check	127	Hood
84	Vegetation	128	Hood
85	Vegetation	128	Hood

FRAMES USED IN PHOTO INTERPRETATION

<u>INDEX</u>	<u>TYPE</u>	<u>TILE NUMBER</u>	<u>COUNTY</u>
86	Vegetation	128	Hood
87	Vegetation	128	Hood
88	Vegetation	128	Hood
89	Vegetation	128	Hood
90	Vegetation	128	Hood
91	Vegetation	128	Hood
92	Vegetation	128	Hood
93	Vegetation	128	Hood
94	Vegetation	128	Hood
95	Vegetation	128	Hood
96	Vegetation	129	Hood
97	Vegetation	129	Hood
98	Vegetation	130	Hood
99	Vegetation	130	Hood
100	Vegetation	130	Hood
101	Vegetation	130	Hood
102	Vegetation	130	Hood
103	Vegetation	130	Hood
104	Vegetation	130	Hood
105	Vegetation	130	Hood
106	Vegetation	130	Hood
107	Vegetation	130	Hood
108	Vegetation	130	Hood
109	Vegetation	130	Hood
110	Vegetation	151	Hood
111	Vegetation	151	Hood
112	Vegetation	152	Hood
113	Vegetation	152	Hood
114	Vegetation	153	Hood
115	Vegetation	153	Hood
116	Lineament Check	154	Hood
117	Vegetation	154	Hood
118	Vegetation	154	Hood
119	Vegetation	154	Hood
120	Vegetation	155	Hood
121	Vegetation	155	Hood
122	Vegetation	156	Hood
123	Vegetation	156	Hood
124	Lineament Check	157	Somervell
125	Vegetation	157	Hood
126	Vegetation	157	Somervell
127	Vegetation	158	Somervell
128	Vegetation	158	Somervell

FRAMES USED IN PHOTO INTERPRETATION

<u>INDEX</u>	<u>TYPE</u>	<u>TILE NUMBER</u>	<u>COUNTY</u>
129	Vegetation	158	Somervell
130	Vegetation	158	Somervell
131	Vegetation	158	Somervell
132	Vegetation	158	Somervell
133	Vegetation	159	Somervell
134	Vegetation	159	Somervell
135	Vegetation	159	Somervell
136	Vegetation	160	Somervell
137	Vegetation	160	Somervell
138	Vegetation	160	Somervell
139	Vegetation	160	Somervell
140	Vegetation	160	Somervell
141	Vegetation	175	Hood
142	Vegetation	175	Hood
143	Vegetation	176	Hood
144	Vegetation	176	Hood
145	Vegetation	176	Hood
146	Vegetation	176	Hood
147	Vegetation	177	Hood
148	Tonal	177	Hood
149	Vegetation	177	Hood
150	Vegetation	179	Hood
151	Vegetation	178	Hood
152	Vegetation	182	Somervell
153	Vegetation	182	Somervell
154	Vegetation	182	Somervell
155	Lineament Check	65	Somervell
156	Lineament Check	65	Somervell
157	Lineament Check	65	Somervell
158	Lineament Check	65	Somervell
159	Vegetation	65	Somervell
160	Lineament Check	65	Somervell
161	Lineament Check	65	Somervell
162	Vegetation	75	Somervell
163	Vegetation	75	Somervell
164	Lineament Check	75	Somervell
165	Tonal	76	Somervell
166	Tonal	76	Somervell
167	Vegetation	78	Somervell
168	Tonal	80	Somervell
169	Tonal	80	Somervell
170	Tonal	49	Somervell
171	Vegetation	198	Hood

FRAMES USED IN PHOTO INTERPRETATION

<u>INDEX</u>	<u>TYPE</u>	<u>TILE NUMBER</u>	<u>COUNTY</u>
172	Vegetation	198	Hood
173	Vegetation	198	Hood
174	Vegetation	199	Hood
175	Vegetation	199	Hood
176	Vegetation	199	Hood
177	Vegetation	199	Hood
178	Tonal	199	Hood
179	Tonal	199	Hood
180	Tonal	199	Hood
181	Vegetation	221	Hood
182	Vegetation	221	Hood
183	Vegetation	220	Hood
184	Vegetation	220	Hood

Lineament Type	Totals
Vegetation	118
Tonal	29
Lineament Check	37
	184

County	Totals
Hood Co.	89
Somervell Co.	95
	184

Fault Field Study Summary with Notes, Maps and Photographs

CPNPP Units 3 & 4 COL Application Project

(prepared by William Lettis & Associates, Inc.)

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- 6. Criner area map
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A. Introduction

In accordance with the scope of work William Lettis and Associates (WLA) has performed a geological field study for the Comanche Peak Nuclear Power Plant (CPNPP). This package of notes, maps, and photographs is intended to provide documentation of our field study, summarize these efforts, and highlight important observations and our resulting conclusions. Fieldwork was performed by WLA geologists to investigate two faults with reported or potential Quaternary activity within 200 miles of the CPNPP site: the Mt. Enterprise/Elkhart graben (MEEG) system in eastern Texas and the Criner fault in southern Oklahoma.

Prior to conducting the field investigation, office-based inquiry included extensive literature research, consultation of experts and data compilations conducted by Christopher Fuller and Stephanie Briggs. This background work was focused on expanding our knowledge of local stratigraphy, geologic history, structural geology, and cited evidence for potential Quaternary activity. Using published papers and aerial imagery several specific field targets were identified in advance of fieldwork. We also requested access to private property from land owners.

Fieldwork was conducted during October 12th to 15th. WLA geologists Christopher Fuller, Jeffery Unruh, and Stephanie Briggs participated in an aerial reconnaissance of the MEEG structures as well as ground-based fieldwork near the Trinity River in Anderson and Leon counties on October 12th. The field party was joined by WLA geologist Keith Kelson for aerial reconnaissance and ground fieldwork in southern Oklahoma October 13th to 15th.

B. Mount Enterprise/Elkhart Graben System

Previous authors had identified an offset of Quaternary units where a strand of the MEEG system crosses the Trinity River in Leon county, Texas, approximately 129 miles from CPNPP. Collins and others (1980) reported Eocene Clairborne Group and overlying unconsolidated Quaternary deposits were offset by a series of ENE-striking oblique slip fault surfaces on the east bank of the Trinity River. We viewed this region with an aerial reconnaissance flight to look for geomorphic expression of the fault and conducted ground-based fieldwork on both sides of the Trinity River to look for evidence of Quaternary faulting.

a. Aerial Reconnaissance

An aerial reconnaissance flight over the MEEG system was conducted in a top-wing Cessna 182 chartered from Mesquite Aviation of Mesquite, Texas on October 12th, 2007. The flight path (Figure 1) was chosen to provide aerial views of the strand or strands of the MEEG near the reported Quaternary offset in Leon and Anderson counties. The flight duration was approximately 3 hours, viewing the faulted area at 8:50 am US central time. The weather was clear and allowed for good visibility. The photos were taken at a height of approximately 1000 ft above the ground surface. WLA geologists Stephanie Briggs, Christopher Fuller and Jeffery Unruh were onboard the flight to direct the flight path and take photographs and notes.

The flight path headed SE out of Mesquite towards Oakwood, TX. Reaching Oakwood, the flight turned ENE to pass southeast of the potential Quaternary offset, near the meander in the Trinity river. There was no geomorphic expression of the fault on either side of the river and the only geomorphic features visible were obvious abandoned river meanders (Fig. 2). The flight continued east, flying approximately along strike of the mapped traces of the strands of the MEEG system. No consistent linear features or tectonic geomorphology were observed. The flight turned NW near Jackson, TX and returned to Mesquite.

b. Ground field study

WLA geologists obtained access to the land on either side of the Trinity river where Collins and others (1980) had observed Quaternary faulting. To approach the outcrop of interest on the east side of the small river meander (location A in Fig. 2) in Leon county, we hiked west from the road on the south side of the river to approach the river bank, walking down 2-3 river terrace surfaces. Indeed, 2-3 EW-striking faults with displacements of 0.2-2 feet cut Eocene sedimentary units as shown in Collins et al's (1980) Figure 2 (Fig. 4a). However, these faults are found to be within a larger slumped block. That is, they are west of a west-facing headscarp with a height of 1-6 ft (Fig. 4b, 4c, and 4d). No clear evidence of faulting was found in the overlying Quaternary units.

On the west side of the small river meander (location B in Fig. 2) in Anderson county, we observed no evidence of faulting. The river bank shows evidence of recent (summer, 2007) flooding and erosion, and displays slumping similar to the east river bank (Fig. 4e). North and west away from the banks of the river, we encounter a completely undisrupted surface (Fig. 4f), with no evidence of the "linear trench" that represents the continuation of the faults on the east side of the river (Collins et al., 1980).

c. Conclusions

Observations made both in the air and on the ground adjacent to the MEEG system in Anderson and Leon Counties, TX do not support the hypothesis of the MEEG being tectonically active in the Quaternary. Young geomorphic surfaces are undisrupted by the strands of the MEEG system in central TX and evidence for faulting is restricted to Eocene units within an erosional landslide block.

C. Criner Fault Study

The Criner fault strikes NW-SE and produces a SW-facing scarp in Oklahoma (Figs. 5 and 6), similar to the expression of the Meer fault ~ 120 kilometers along strike to the northwest. Given the evidence for Quaternary activity along the Meers fault (e.g., Gilbert, 1983; Ramelli et al., 1987; Madole, 1988; Crone and Luza, 1990), workers have speculated that the Criner may also have been active in the Quaternary. Previous workers from Geomatrix consultants had indicated that the Criner fault displaces middle to late? Pleistocene fluvial deposits adjacent to Hickory Creek in Love County (Kelson et al., 1990). However, recent studies have suggested that the fault is not active and/or that displacement may be related to late Pleistocene landslides

(Williamson, 1996; Hanson et al., 1997; Walker et al., 2005). Williamson (1996) pointed out that the scarp is restricted to the area where the resistant Ordovician limestone is adjacent to the fault and interpreted the scarp as a fault-line scarp.

a. Aerial Reconnaissance

An aerial reconnaissance flight over the Criner fault was conducted in a top-wing Cessna 182 chartered from Versatile Aviation of Ardmore, OK and flown by Randy Hickman on October 13th, 2007. The flight path (Figure 1) was chosen to provide multiple views of the entire scarp exposed in Carter and Love counties, OK. The flight duration was approximately 2 hours. We departed Ardmore at 8:30 am US central time and it took 10 minutes to reach the Criner area. The weather was clear with some haze and allowed for good visibility. The photos were taken at a height of approximately 1000 ft above the ground surface. WLA geologists Stephanie Briggs, Christopher Fuller and Keith Kelson were onboard the flight to direct the flight path and take photographs and notes.

The flight path headed SW out of Ardmore and then flew SE along the trace of the fault. The fault coincides with a SW-facing scarp easily identifiable from the air. After the initial pass, we zigzagged along the fault scarp, identifying potential locations where the fault would be adjacent to or intersect with Quaternary deposits, such as prominent drainages. We also identified the northern terminus of the obvious fault scarp as a location to investigate further from the ground.

b. Ground field study

Fieldwork included observations of the scarp along its length and searching for cross-cutting relationships between Quaternary deposits and the fault's trace. The section of the fault studied here and previously speculated to be Quaternary in age separates topography northeast of the fault from flatter topography southwest of the fault, which is generally 1-5 meters lower. Previous studies documented that the higher topography to the north appears to coincide well with the Ordovician/Mississippian limestone unit, while the flatter topography is correlated with Pennsylvanian limestone, sandstone and shale (Williamson, 1996). Our investigation found the typical geomorphic expression of the fault to include a bedrock scarp of 0.5 to 1 meters height at the base of the higher topography NE of the fault (Fig. 7b). This bedrock ledge is neither smooth nor striated (Fig. 7c) and transitions into a more rubbly, rounded, and vegetated slope NE of the fault's trace (Fig. 7b). Southwest of the fault's trace, there is little to no colluvial wedge, but instead the flat plain abruptly transitions into the bedrock scarp and rubbly outcrops of Ordovician limestone (Fig. 7b and c).

In the northwestern corner of the field area, we investigated the northern terminus of the scarp to look for a cross-cutting relationship between the young alluvial units deposited in the flat plain north and west of the Criner Hills and the fault. At field location A, the NW edge of the field area (Fig. 6), the fault has no geomorphic expression (Fig. 7a). The landscape includes a wide field and is flat with mild, smooth undulations (Fig. 7a). A small outcrop of Cretaceous just south of the road between field location A and B (the

small hill with green on it in Fig. 6) was also inspected for evidence of faulting and none was found. At field location B (Fig. 6), the topographic relief on either side of the scarp dies out to the north (Fig. 7b). A small man-made ditch, fence line, and old road bed control the position of trees along this portion of the fault's trace (Fig. 5a, 7b).

In the central portion of the Criner Hills, a large wooded area is adjacent to a quarried portion of the Criner Hills and fields to the southwest (Fig. 5b, 5c). We attempted to observe the relationship between Quaternary alluvium and the fault in several of the drainages along this portion of the fault. Generally the drainages lacked significant alluvium. In this area, the fault is primarily identified by the extent of outcrops of the grey Ordovician limestone, which sometimes corresponds to a topographic step of 0.5-1 meters height. In particular, we did find 2 limestone outcrops along the fault approximately 60 meters apart on either side of a drainage. Between these two outcrops of the scarp (i.e., along strike or near the projection of the fault) a 7-10 meter wide soil exposure essentially extends obliquely across the most likely projection of the fault (Fig. 7d). The exposure of this soil appears to be the result of recent flooding and/or man-grading for the field to the southwest or the quarry to the northeast. However, this soil is moderately well-developed and includes secondary clay accumulation, a >40 cm B-T horizon and reddening (Fig. 7e). The soil structure is coarse to medium, angular to blocky and the soil includes 0.5 m thick A horizon and a Stage 2 secondary carbonate accumulation. Since no evidence of faulting was found in this outcrop and this outcrop should reveal the likely projection of the fault, we interpret the faulting to be older than the development of this soil unit.

At the southeastern edge of the field area, (location E & F in Fig. 6) we investigated faulting where the Hickory Creek crossed the fault, again looking for young alluvial units to reveal evidence for or against Quaternary activity on the Criner fault. At location E, near the bridge where the County Line road crosses the creek, no evidence of faulting was found. To the southeast, a single exposure on the east side of Hickory Creek (location F) was regarded as significant in that it was cited by contrasting studies as providing evidence both for and against Quaternary activity on the Criner (Kelson et al, 1990 and Williamson, 1996, respectively). In this area, several segments of the Hickory Creek are oriented roughly parallel to the mapped trace of the Criner fault (Fig. 6). Workers from Geomatrix Consultants indicated that a red Pleistocene? gravel unit was cut by the fault (Kelson et al., 1990). Later, however, a masters student hand-excavated a portion of the exposure along the creek and concluded that the Criner fault cut only Pennsylvanian Deese Group sandstone and shale and not the overlying alluvial units, such as red clay and gravel units (Williamson, 1996).

Our investigation of the Hickory Creek exposure yielded the following observations. First, Pennsylvanian shales outcropping ~1-2 meters up the banks of the creek on the do appear to be faulted by an ENE-striking fault as described in detail by Williamson (1996). Second, red clay and gravels above the Pennsylvanian shales do not exhibit evidence of fault deformation. Third, the entire exposure is west of a 0.5-2 meter high west-facing landslide scarp (Fig. 7f). This landslide appears to be active, resulting in a

disrupted, undulatory soil surface capping the bank exposures and was documented by previous workers as well (Williamson, 1996). The scarp trends NW-SE and extends for more than 50 meters, sub-parallel to the banks of the Hickory Creek.

c. Conclusions

Fieldwork and aerial reconnaissance along the Criner Hills provided no evidence of Quaternary activity on the Criner Fault. While a distinct bedrock scarp does exist coincident with the trace of the fault all along the contact between the resistant Ordovician limestone and the Pennsylvanian sandstone and shales, there is no evidence of recent displacement along that scarp feature, such as striations, breccia, colluvial wedges, or polish (Fig. 7c). Additionally, our work at the northwestern extent of the field area documents that the scarp does not extend into the flat alluvial plains at the NW end of the Criner Hills, nor is any faulting found in the Cretaceous or younger alluvial units there (location A and B). Moderately well developed soil straddles the projection of the fault undisrupted (field location D). Furthermore our observations at the Hickory Creek exposure indicate that unfaulted Pleistocene gravels are disrupted by recent landslides (Fig. 7f). We conclude, therefore, that the scarp is a fault-line scarp, resulting from differential erosion of Pennsylvanian sandstones and shale and more resistant Ordovician limestones on either side of a Pennsylvanian tectonic feature, the Criner fault.

D. References

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- Kelson, K. I., Swan, F. H., Coppersmith, K. J., 1990, Implications of late Quaternary faulting along the Meers and Criner faults to assessments of seismic hazards in the central and eastern US: GSA Abstract, v. 22 (1), 10.
- Madole, R. F., 1988, Stratigraphic evidence of Holocene faulting in the mid-continent—the Meers fault, southwestern Oklahoma: Geological Society of America Bulletin, v. 100, p. 392-401.
- Ramelli, A. R., Slemmons, D. B., Brocoum, S. J., 1987, The Meers fault—Tectonic activity in southwestern Oklahoma: Nuclear Regulatory Commission Technical Report, NUREG/CR-4852, 25 pp.
- Walker, W. M., Sralla, B., Cronin, V. S., 2005, A reassessment of the possible activity of the Criner Hills Fault, south-central Oklahoma: GSA Abstracts with Programs, v. 37 (7), p. 559.
- Wheeler, R. L., and Crone, A. J., 2001, Known and suggested quaternary faulting in the midcontinent United States, Engineering Geology: 62, p. 51-78.
- Williamson, S.C., 1996, Observations on the capability of the Criner fault, southern Oklahoma [M.Sc. thesis]: College Station, Texas A&M.

E. Figure Captions

1. Regional map of CPNPP site area indicating the aerial paths of reconnaissance flights to view the Criner fault in southern Oklahoma (pink) and the MEEG system in central Texas (yellow). CPNPP 200 mile radius also shown.
2. Aerial photograph of Trinity River and the reported trace of a Quaternary strand of the MEEG system (in red). Field locations A and B (in Leon and Anderson counties, respectively) are also shown. View to the northwest.
3. Local map of area near the Quaternary strand of the MEEG system near the Trinity river. Fieldwork tracks from GPS log shown in pink.
4. Field photos from MEEG system strand near the Trinity river. A. View to the east of several small ~EW striking faults cutting Eocene sedimentary units in Leon County. B. View to E of ~W-facing landslide scarp, highlighted in red, on east bank of river in Leon County, field location A. C. View to SE of W-facing landslide scarp, highlighted in red, field location A. D. View to E of W-facing landslide scarp and smaller WNW-facing landslide scarp, field location A. E. View to WSW of several small landslide and slump blocks on the west bank of the Trinity river, Anderson county, field location B. F. View to north of undisrupted ground surface in Anderson county, field location B.
5. Aerial photograph sequence from reconnaissance flight over the Criner fault in southern Oklahoma. Red letters indicate field locations as identified in Figure 6. A. View to NW of NW end of the Criner fault. B. View to E of north-central portion of the Criner fault, the trace of which is mostly tree-covered in this photo. C. View to SE along the north-central portion of the Criner fault. Field location D is just off the bottom of the photo. D. View to NW of central portion of the Criner. E. View to NE of southern portion of the fault. A hypothesized strand marked with the queried dashed red line was investigated west of Hickory Creek, but no evidence of faulting was found. F. View to the ENE of the southernmost portion of the Criner fault and Hickory creek. Field location F would be just off the bottom right corner of the photo.
6. Local map of Criner fault in southern Oklahoma with field tracks from GPS log shown in blue, magenta and orange. Criner fault is shown in red and field locations discussed in text are shown with solid black letters.
7. Photographs of Criner fault from fieldwork. A. View to NNW across undisrupted alluvial plain at NW edge of field area near field location A. B. View to NE of scarp and Criner Hills dying out to north near field location B. The two figures are standing along a man-modified ditch and old fence line. C. View to NE of 0.5 m high bedrock ledge at base of scarp in Criner Hills near field location C. White box is drawn around mechanical pencil for scale. D. View to SE of soil exposure across projection of the Criner fault at field location D. The bedrock scarp is located ~ 20 meters behind figure in wooded area centered in background of photo. E. View of E of moderately well developed soil at field location D. F. View of W-facing landslide scarp above disputed Hickory Creek exposure at field location F.

Location Mesquite TX Date Oct. 12, 2007
Project / Client Uminant - TXU Comanche Peak

Scale

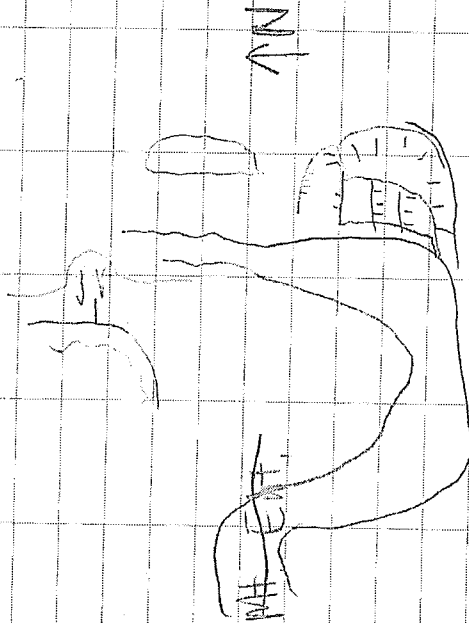
Checking out Mt. Enterprise Elkhart
graben from air @ Mesquite Airport.
Flying with Josh of Mesquite Aviation.
Sunny, clear, & T in 60s-70s.
Taking off at 7:55am to the S.
Turned to SE ~ 150° heading.
Pilot asked about altitude of pick-up - 6000 ft
Responded w/ ~ 1000 ft.
Presented Jeff Ulrich
CARIS Fuller
Stephanie Briggs
There were lots of alos around here
At 9:10 AM we were approaching the Cedar
Creek Reservoir (GPS said north end of
Sawney, TX).
Lost by the Richard [unclear] Reservoir
to West.
gonna talk w/ Wright to where we're going.

[illegible]

A+ 9.12 Spotted a N-fairy ~~spoke~~ ^{snob} ~~bird~~ ^{bird}
Steepness in topography Turned around @ Lakegish
Very irregular hills - said to be volcanic erosion

Location _____ Date _____
 Project / Client _____
 10/2/07

Judok Duveman Silver Lake Farm
 on S. side of Trinity River
 found small fault of 6cm offset
 strikes EW
 E of that fault maybe small
 fault S. side and strike



We saw 2-3 small EW trending
 down to N or S. offset of between 6cm +
 2 feet.
 Stepping back, the offset was
 clearly located in the center

Location _____ Date _____
 Project / Client _____
 Scale _____

portion of a large dam to the river
 bankside. There is a semi-circular
 stair path a height of 0.5 - 2 meters
 Now, draw onto Pat's hill / Anderson
 Co. N of River
 N of River, 2 along river towards
 bank

We reach the spot directly across from
 the landslide area on the SE side of the river
 bank, there is no rock outcrop, just recently
 deposited sand. This side of the river is
 made of channels & filled up flood-eroded
 trees & weeds. Perhaps this is related to
 recent floods from July + August of this year.
 At the bank, sandy deposits to a snake.
 As we head N, we are past a few levees
 from abandoned meanders of the river.
 Past 20 or 30 ft there, there is a completely
 undisturbed surface of ~~what~~ no evidence
 of any recent activity that I can see
 as the position is a meander of the
 river - maybe 5-10 ft off bank and a few
 (ft).

Location Oct 13, 2007

Date

Project / Client TXU - Comanche PeakArdmore Dam & Reservoir

flying w/ Randy of versatile Aviation

Sunny T ~ 65° + clear

Started engine @ 8:30 AM.
 tiny plane, clear back panel of plane
 flopped open when we got into plane.

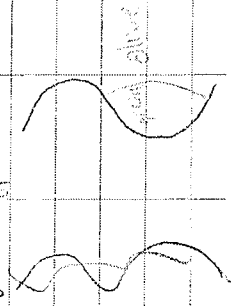
My headset didn't work.

no wind
 D clouds
 N

NW formation of
 China

in road
 road

Vegetation color change 3 landscape map
 near hickory creek



Date

Location

Project / Client

Scale

11:10 @ Doers Bros Quarry
 An in ground outcrop is above us to the
 back of the quarry (NW of quarry).

Vertha & I are crushing SE of the quarry
 towards the quarry. I am
 which is near the quarry. I am
 towards the quarry.

The quarry is full of debris. I am
 along, but no debris. I am
 the small, dry debris which
 is in the quarry. I am
 in the quarry.

Spot 3 on Keith's notes

a mound of debris 11 to the
 Stamp

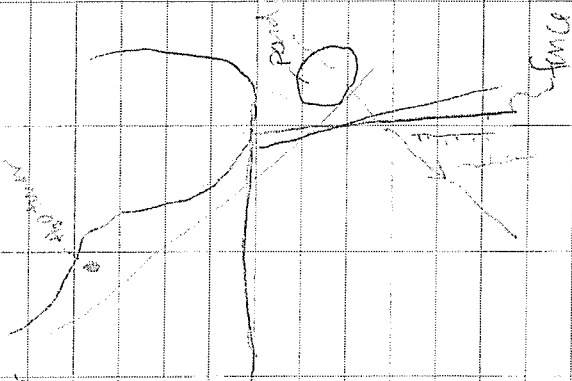
In drainage no evidence of stamp
 in drainage, probably disturbed
 or modified by man's activity

To get to the quarry, we have to go
 down the road to the creek
 and then up the hill to the quarry.

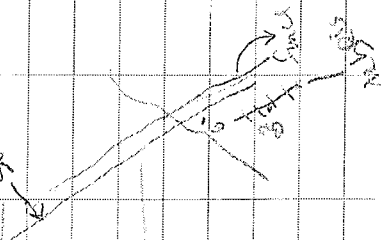
Location _____ Date _____

Project / Client _____

Depth is like (man made) is ~ 1 meter high.



Scarp



Location _____ Date _____

Project / Client _____

100 - 110 OK tw Scale _____

At (b) we saw an exposure of moderately well developed soil $\Rightarrow$ secondary clay accumulation, a BT horizon, reflecting stage 2 of secondary clay accumulation.

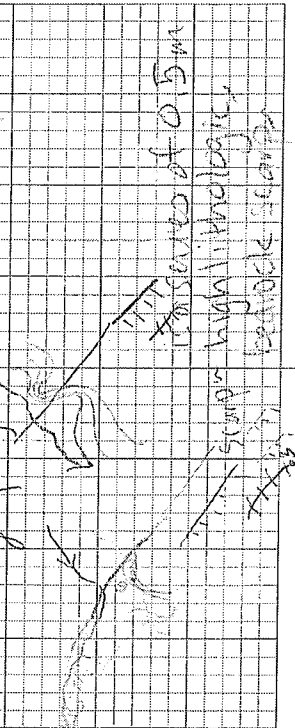
A horizon is 0.5 m thick

BT is 540 cm thick

Soil structure - coarse to medium angular - blocky

The exposure must be at least 10 percent flooding and/or man grading.

Expos is 7-10 m long & extends essentially extends slightly across the likely projection of the scarp.



Location _____ Date _____
 Project / Client _____

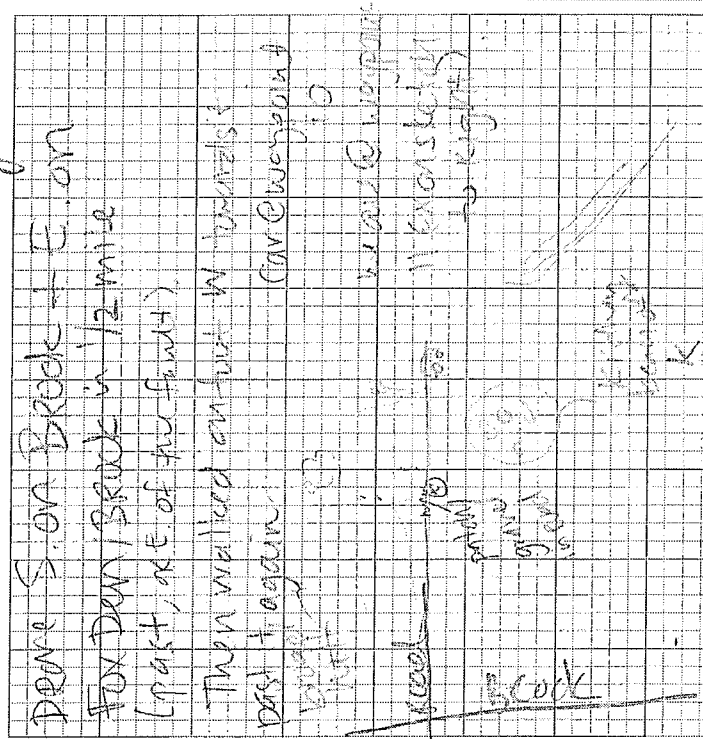
Note Keith's spot 4+5 were
 2 points along base of bedrock
 scarp
 we will now go to 7th mark another
 way point ~~see~~ N. of the creek
 sy. that 4+5+7 will give us a
 strike of the exposure of the
 fault scarp.

Marking spot 8 @ 1:19 pm.
 Hick Creek bridge

① Small dirt road off plain view
 Rd. Turned around @ NS Rd.

Weather - a little cloudy / overcast &
 cooler

Location _____ Date Oct. 14, 2007²¹
 Project / Client TXU-CP
Criner fault field study Scale _____



There is no geomorphic expression of the
 fault here, between 10-11
 We infer ~~no~~ activity there as
 evidence for is a activity of the
 fault - but we cannot be sure
 evidence of a ~~fault~~ ^{activity} would be needed
 a way...

Location _____ Date _____
Project / Client _____

Continued Carfaxden till it turned N.
Stopped to look at an ancient (Dakota) unconformity.
Walked up a power line access road.
(sandy)

Keith waypoints as 12.

We are noting that there is a reasonable break in slope here. Much gentler than the scarp slope but bedding orientation is different than next to the main scarp.
Perhaps a fault indicates that perhaps lithologically - controlled topography rather than fault - controlled.

Turned around, went back to S on creek, then turned E on Buckskin to head toward the fault.

We stopped near N. Phacelict

Location _____ Date _____
Project / Client _____

Scale _____

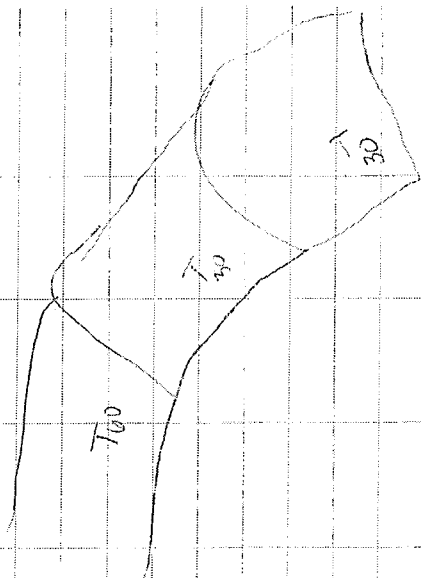
(a limestone) which shows up as a scarp parallelly white streaks. Unconformity just SW of the scarp. Stop 13 - along road - sandstone & limestone. There is a top scarp along this feature. Road leads to SW.

drainage cuts - scarp right along bend in road (Buckskin - Carfaxden)

spot 11



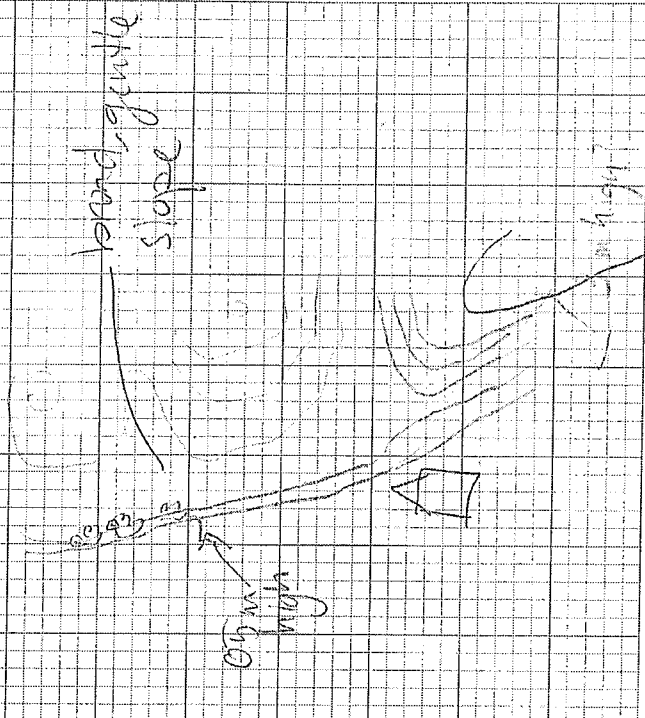
Aside about feeling



Average stop 14 we have a bit of colluvium @ the base of the scarp

We also observe a pretty broad temperature
drainage that was the same yesterday.
This is filled in again, & allowed

Stopped at Stant Joseph near
house which is just another fault!
Scarp is 15-20 meters
We walked NW along the scarp
& noticed some phyto change
Scarcely a *Miconia* here
Rocks back exposure
Barren at 0.5 - 1 m high scarp
Vegetation better developed at 1 m



Location _____ Date _____

Project / Client _____

Geo

Ashcroft Lodge (0.5 m high) continues
 it develops a small rough adjacent to it,
 + short rougher ditch dependent to
 ~1 m deep ^{rougher} appears to be manmade.
 We can't see any geomorphic expression.

Continued walking N+E up hill
 turned the landscape to the west.
 You can't see any geomorphic expression.

End of being gone till 12:15

Kevin's landscape ideas about is
 the ^{rougher} scarp going along a water larger vegetation
 boundary.

After lunch we went to the Bean's
 + talked to Cheryl.

She agreed to drive us down to the creek
 on New property in a Ranger. This
 4WD + wheelbarrow thing + mini pickup.
 ~ 1:40 pm

Location _____ Date _____

Project / Client _____

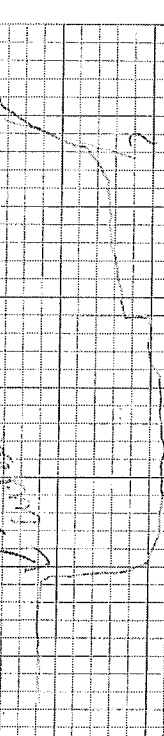
Scale _____

We drove and to the creek over a big
 hill.

Saw a wild pig - injured

Walked up the creek a little ways
 + didn't see much more.

On the E. bank there seems to
 be a shallow bank with a
 steep ^{scarp} ^{side}
 W.



W side of creek is a steep

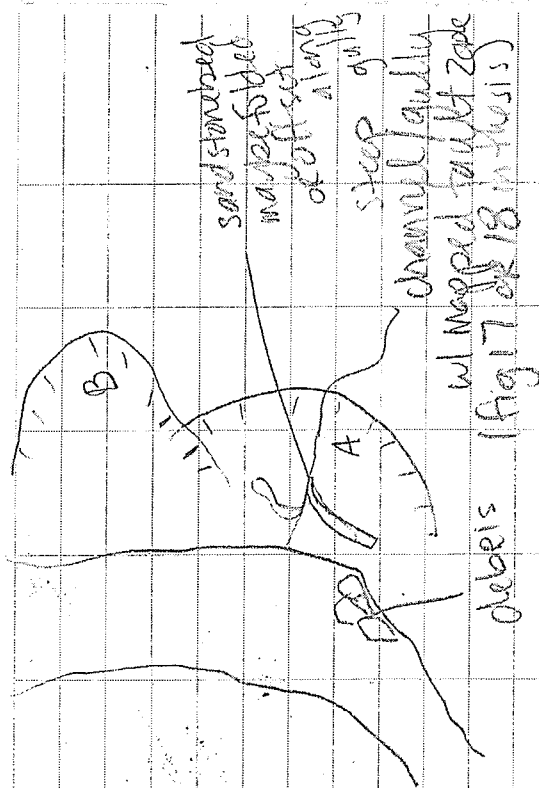
cut bank 3-6 m high.

Flood deposits + seeds for well settled
 + think

Just S of that is a beam
 with big coarse debris washed here
 upstream (1.25 - 2 m blocks)

Location _____ Date _____

Project / Client _____



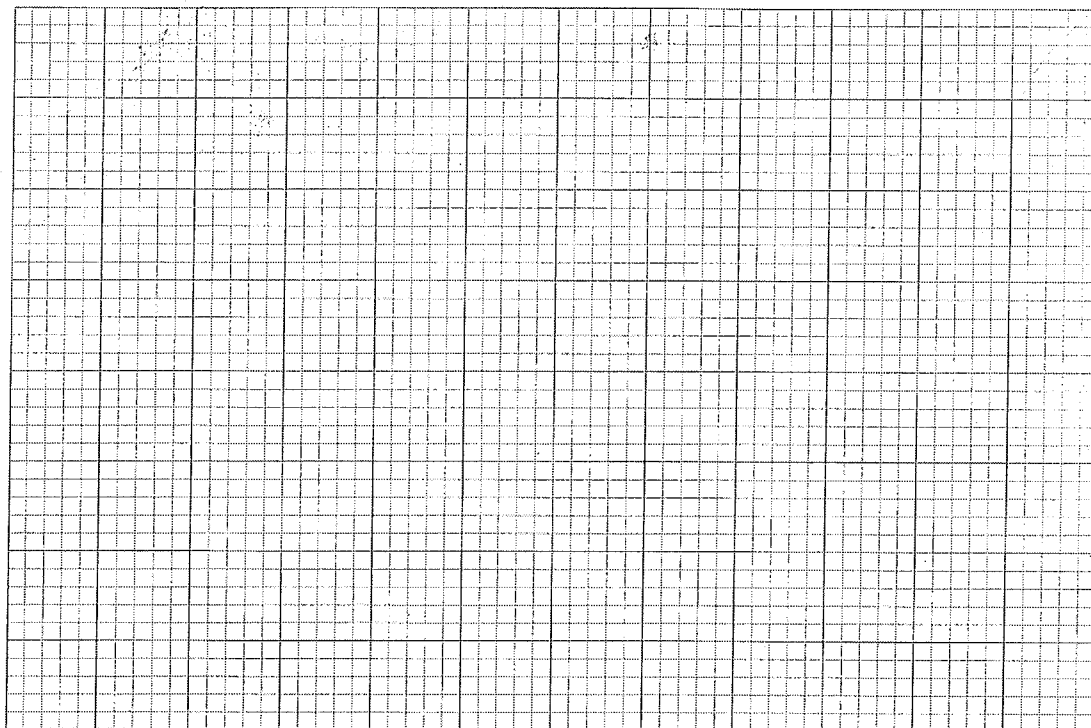
Climbing over the gully / offset bed exposure, you climb effectively onto a landslide block with a prominent crown / headscarp sum parallel to the creek bed / banks (A) 2m ^{wide} 10/11/107
The scarp is 0.5 - 1.5m high
+ C. fuller got waypoints at the N+ terminus

The N. terminus seems to be a landslide block further N. (b)

Location _____ Date _____

Project / Client _____

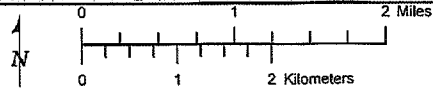
Scale _____



DRAFT

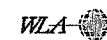


Sources: DRGs - GIS Data Depot; Highways and imagery from University of Oklahoma - www.csa.ou.edu
Projection: NAD83 UTM Zone 14



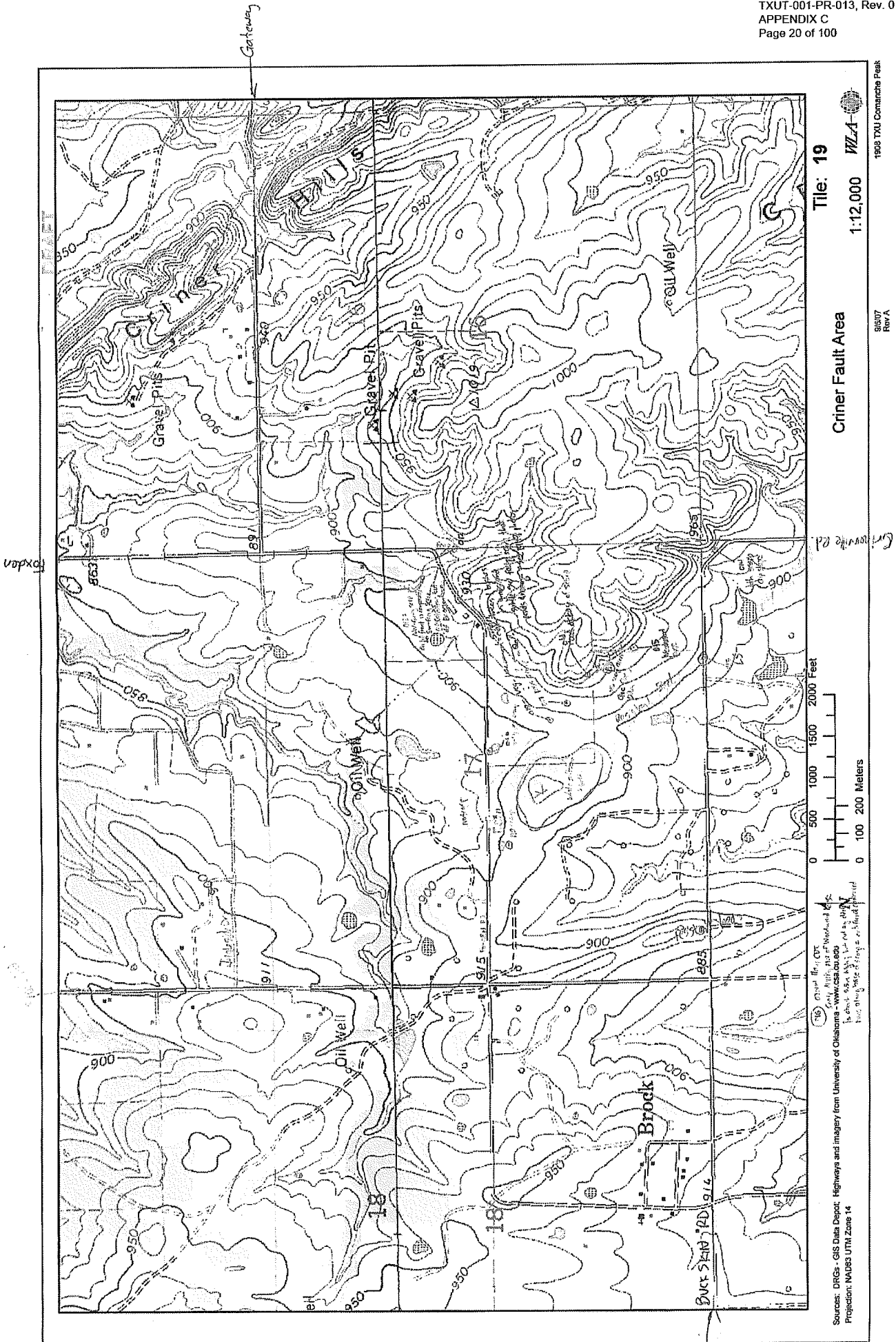
Criner Fault Area

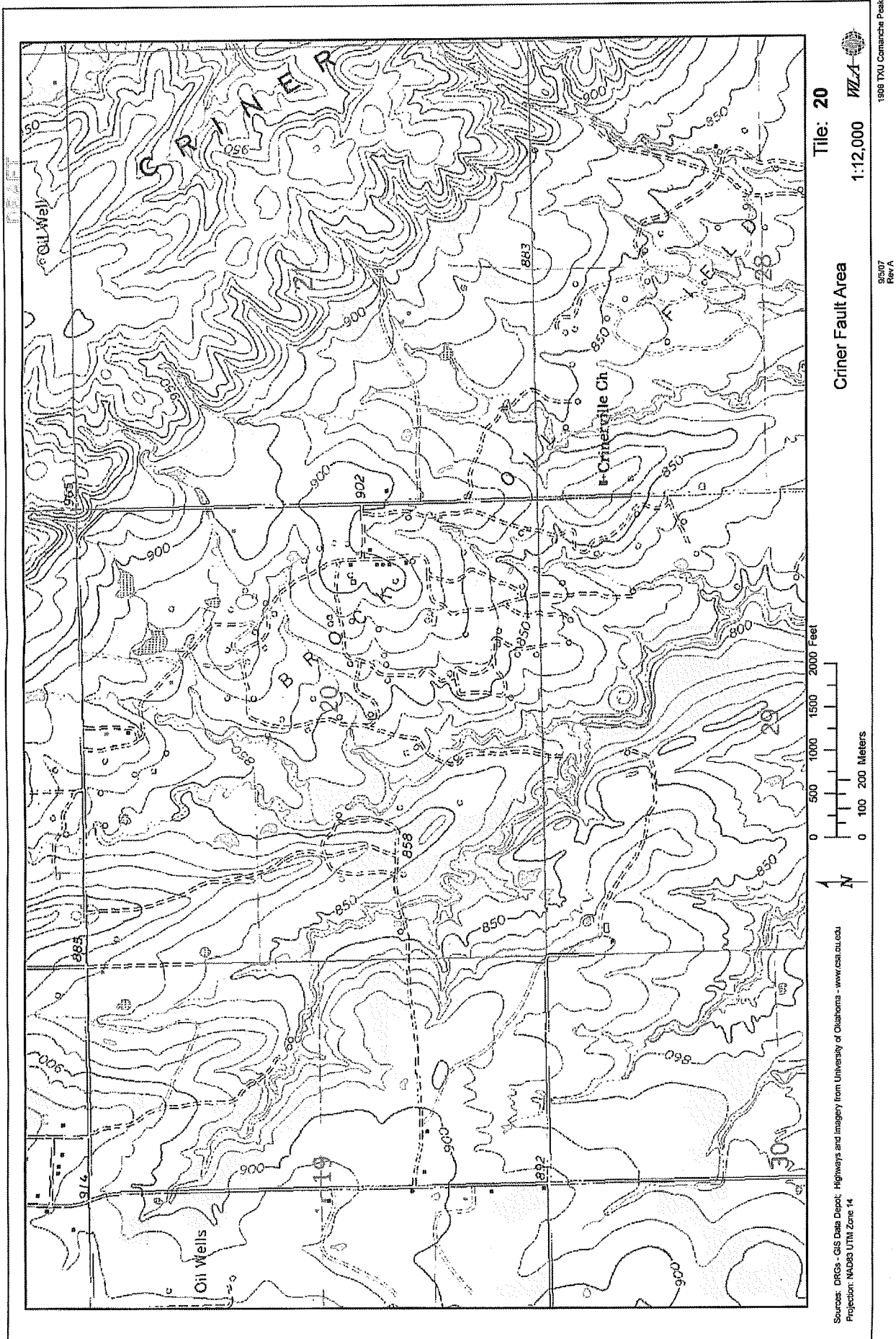
1:50,000



9/5/07
Rev A

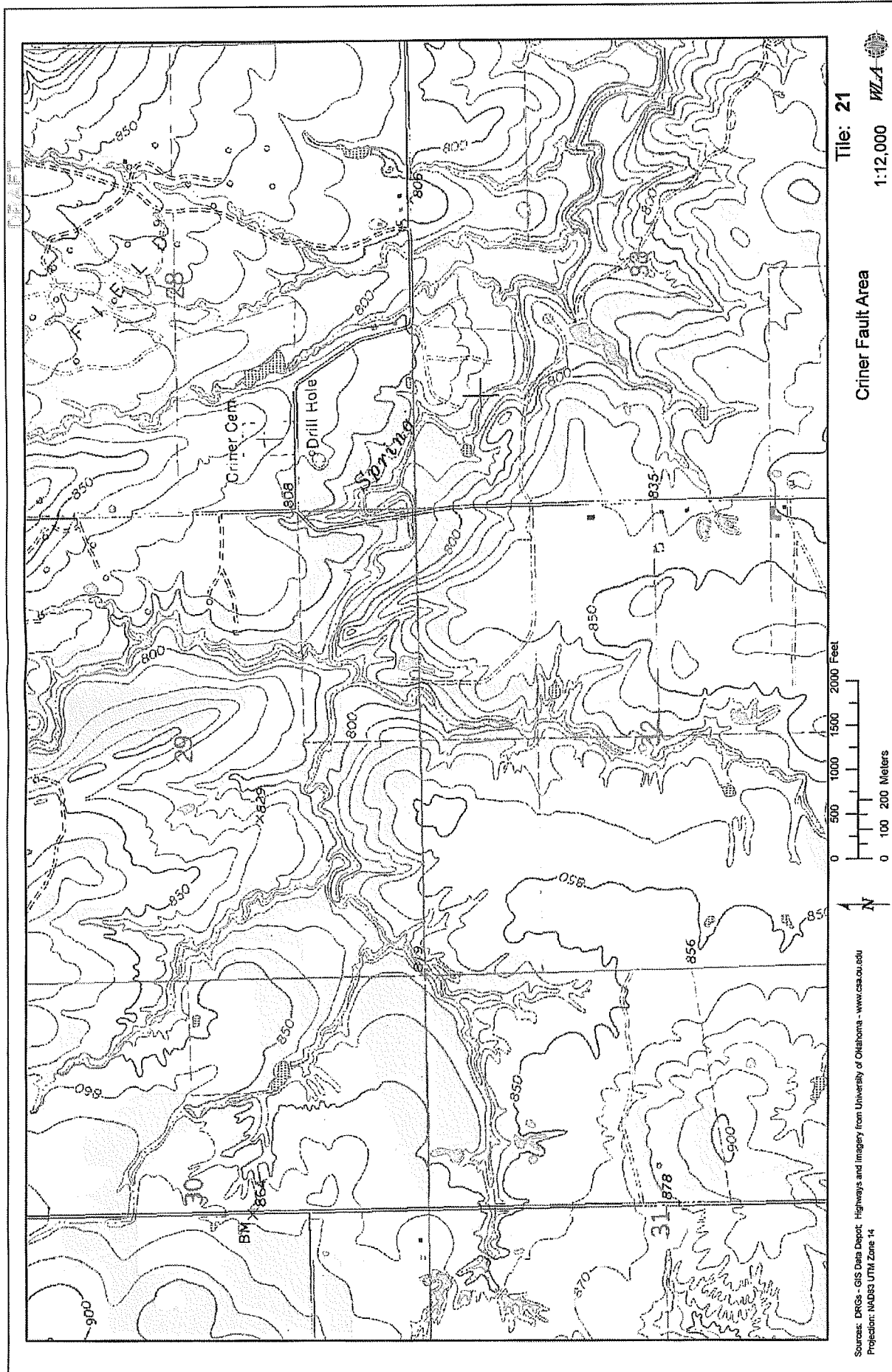
1905 TXU Comanche Peak





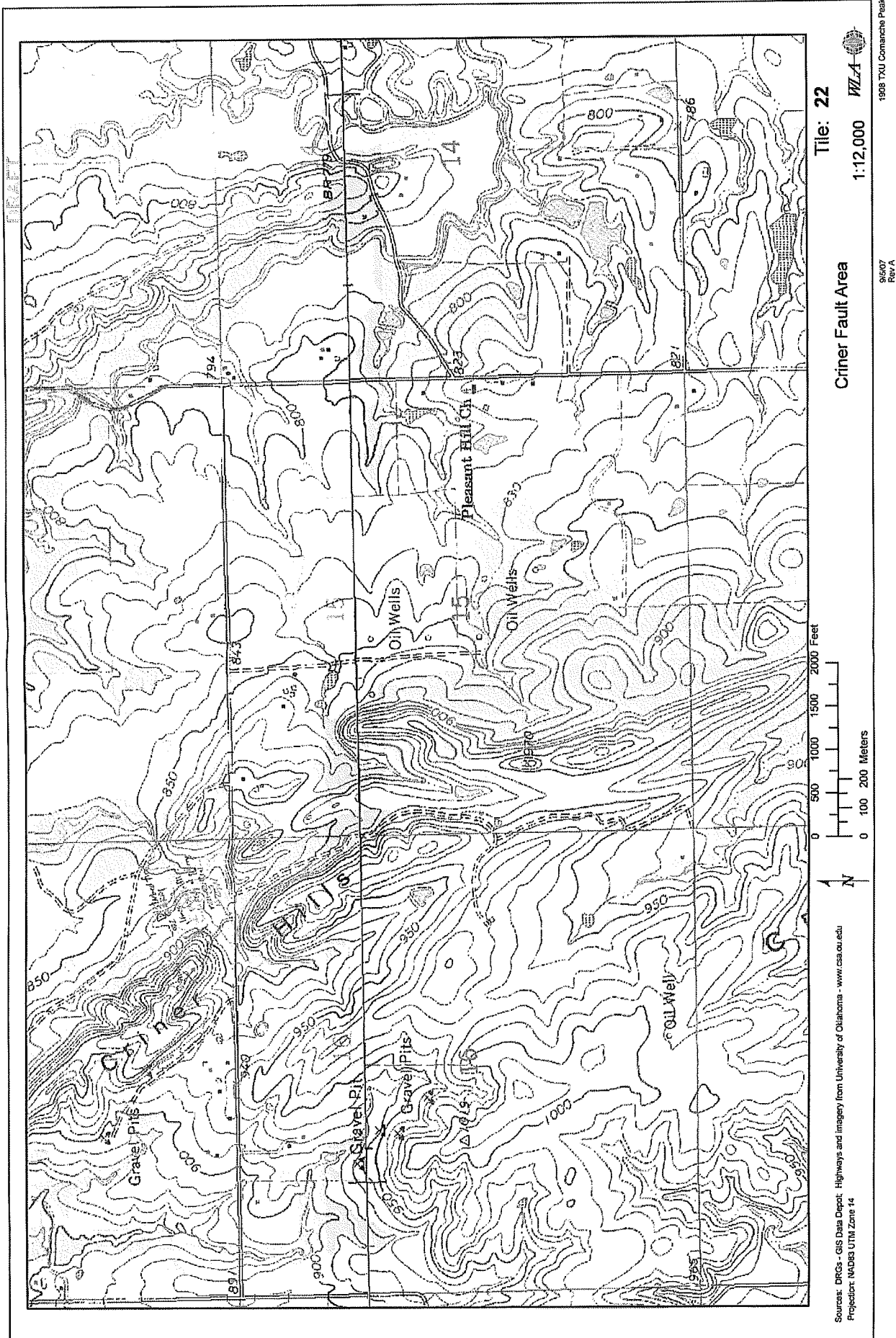
Sources: DRCs - GIS Data Depot; Highways and Imagery from University of Oklahoma - www.csa.ou.edu
 Projection: NAD83 UTM Zone 14

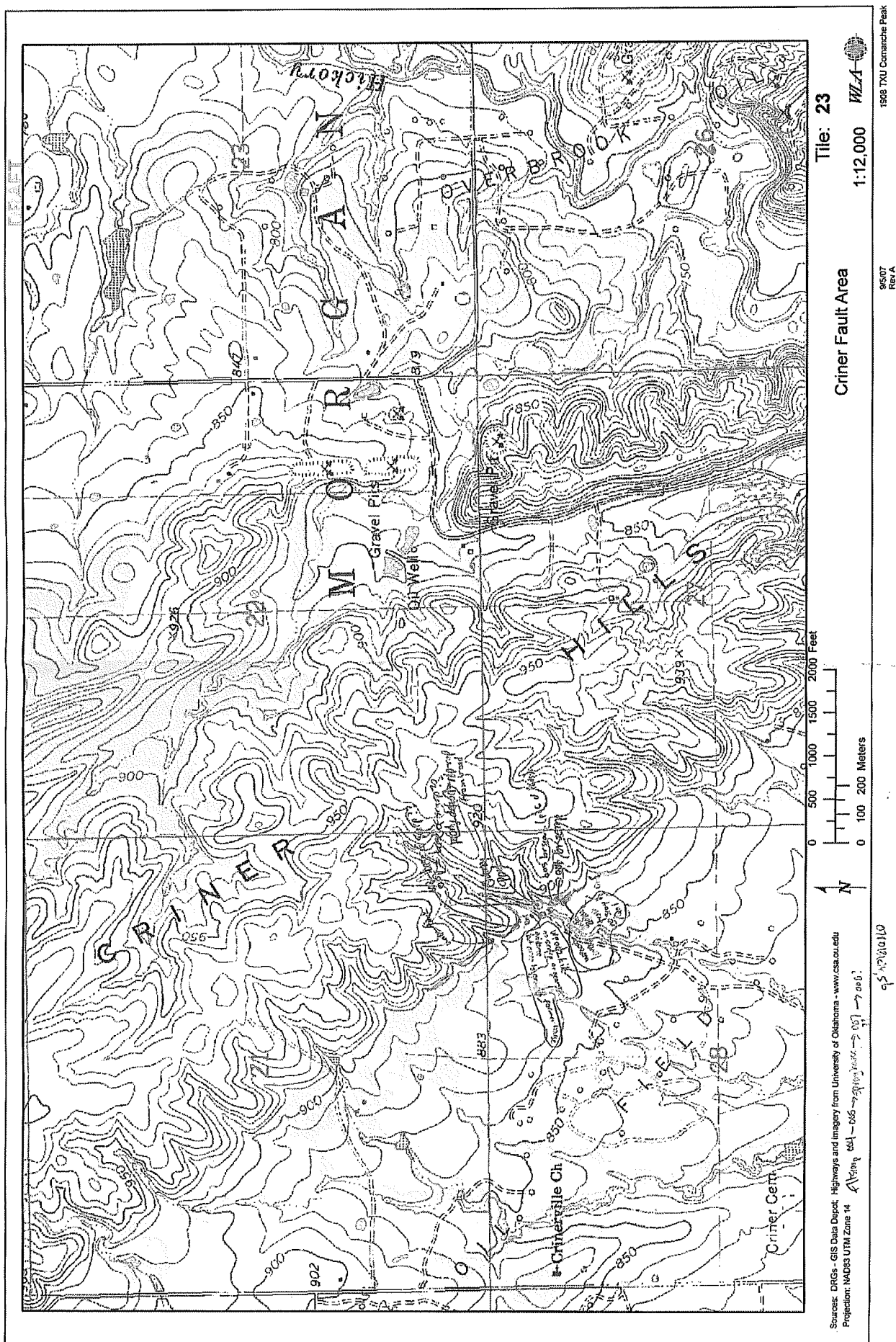
9/5/07
 Rev A
 1986 TXU Comanche Peak



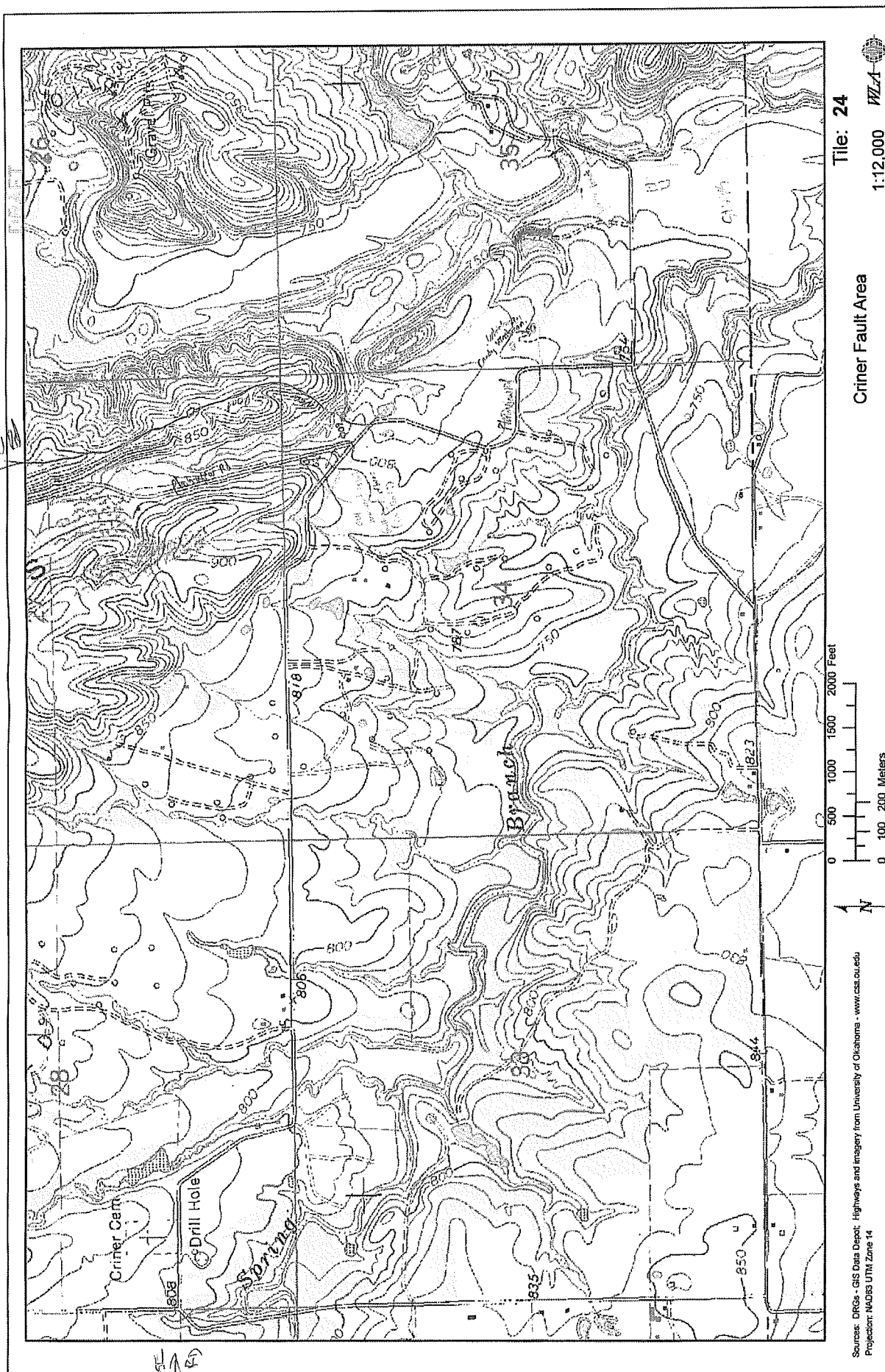
06/07
 Rev A

1008 TXU Comanche Peak



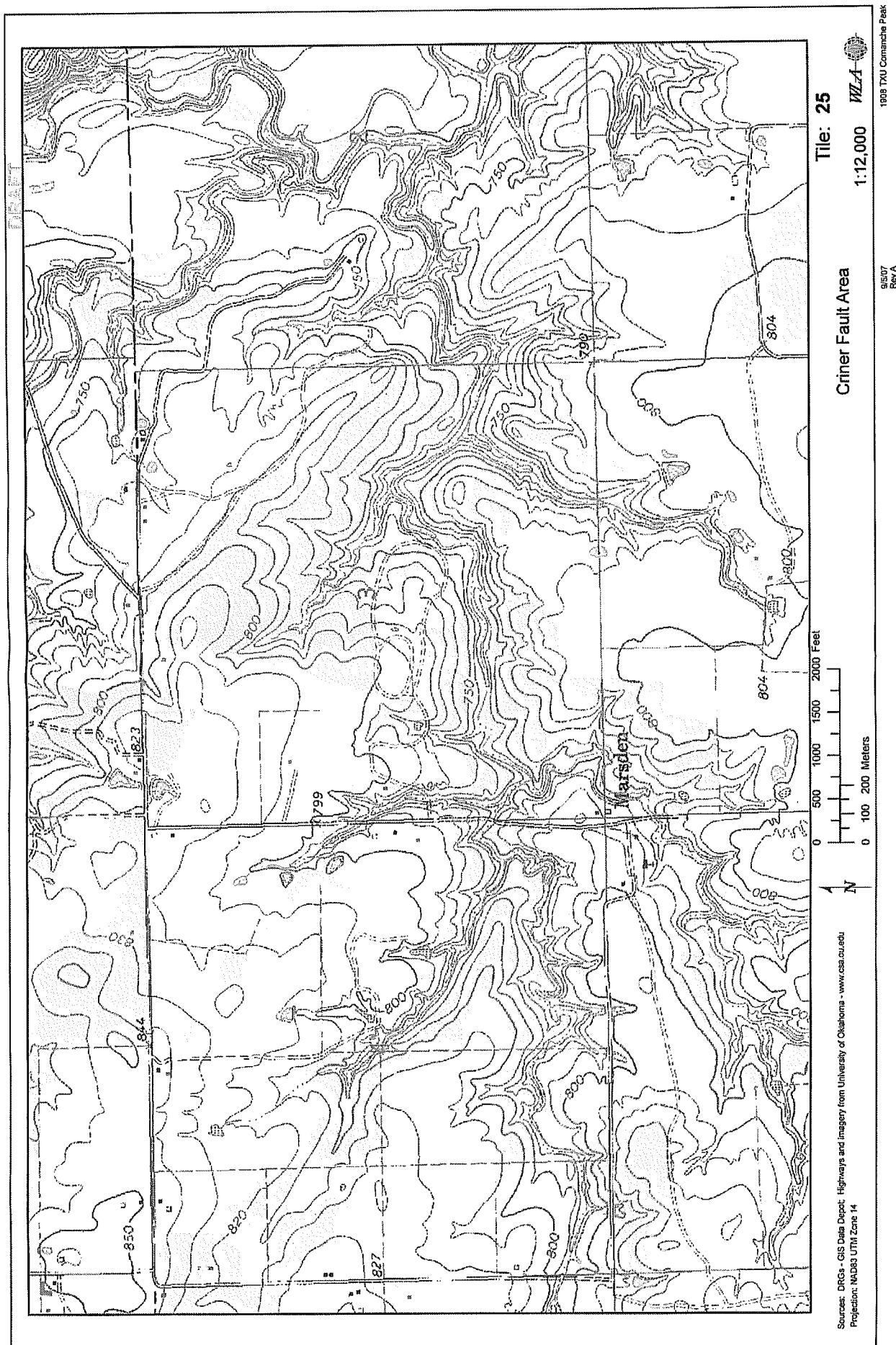


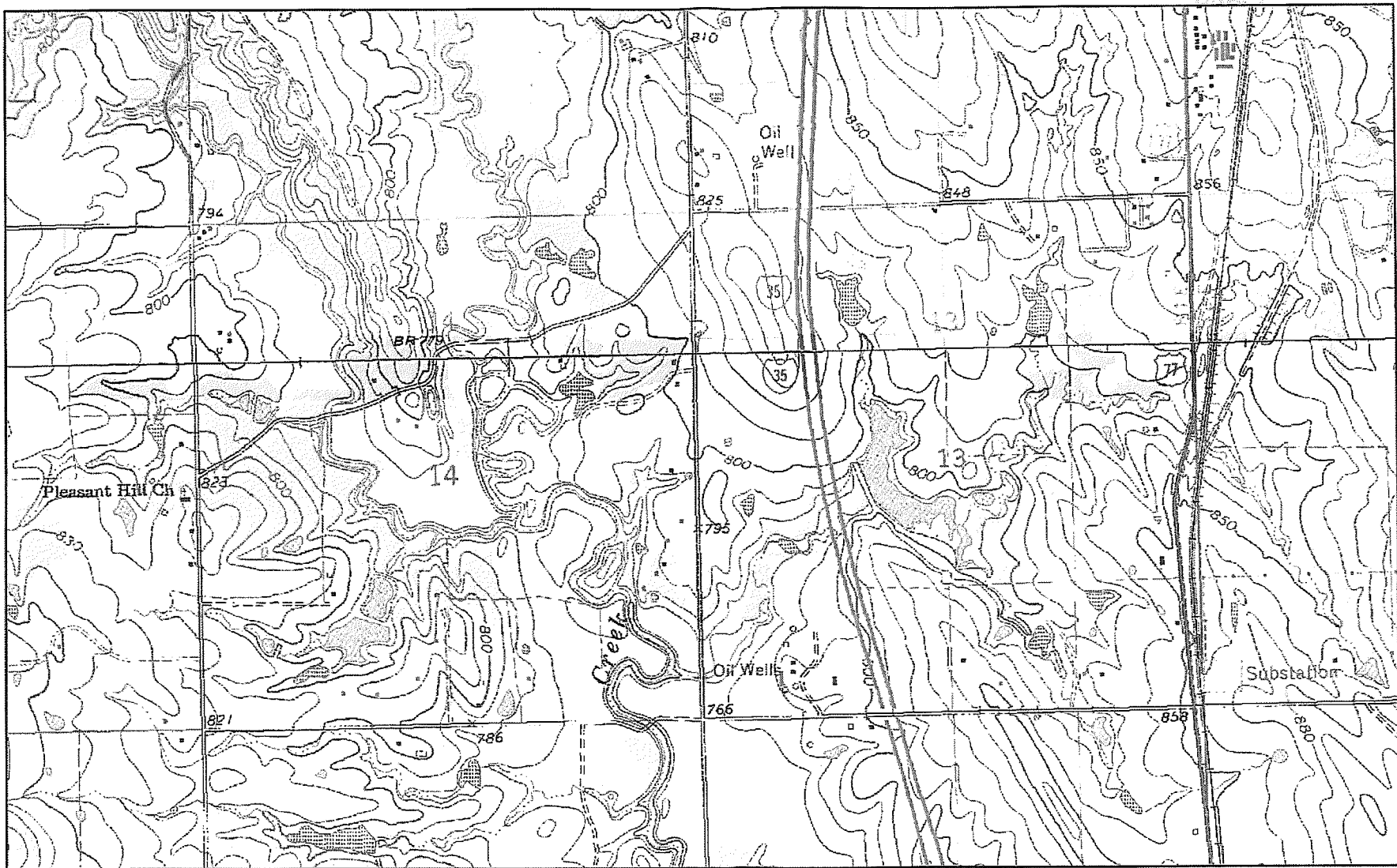
504
00183 580



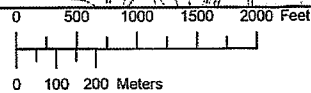
1998 TXU Comanche Peak

9/5/07
Rev A





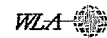
Sources: DRGs - GIS Data Depot; Highways and imagery from University of Oklahoma - www.csa.ou.edu
 Projection: NAD83 UTM Zone 14



Criner Fault Area

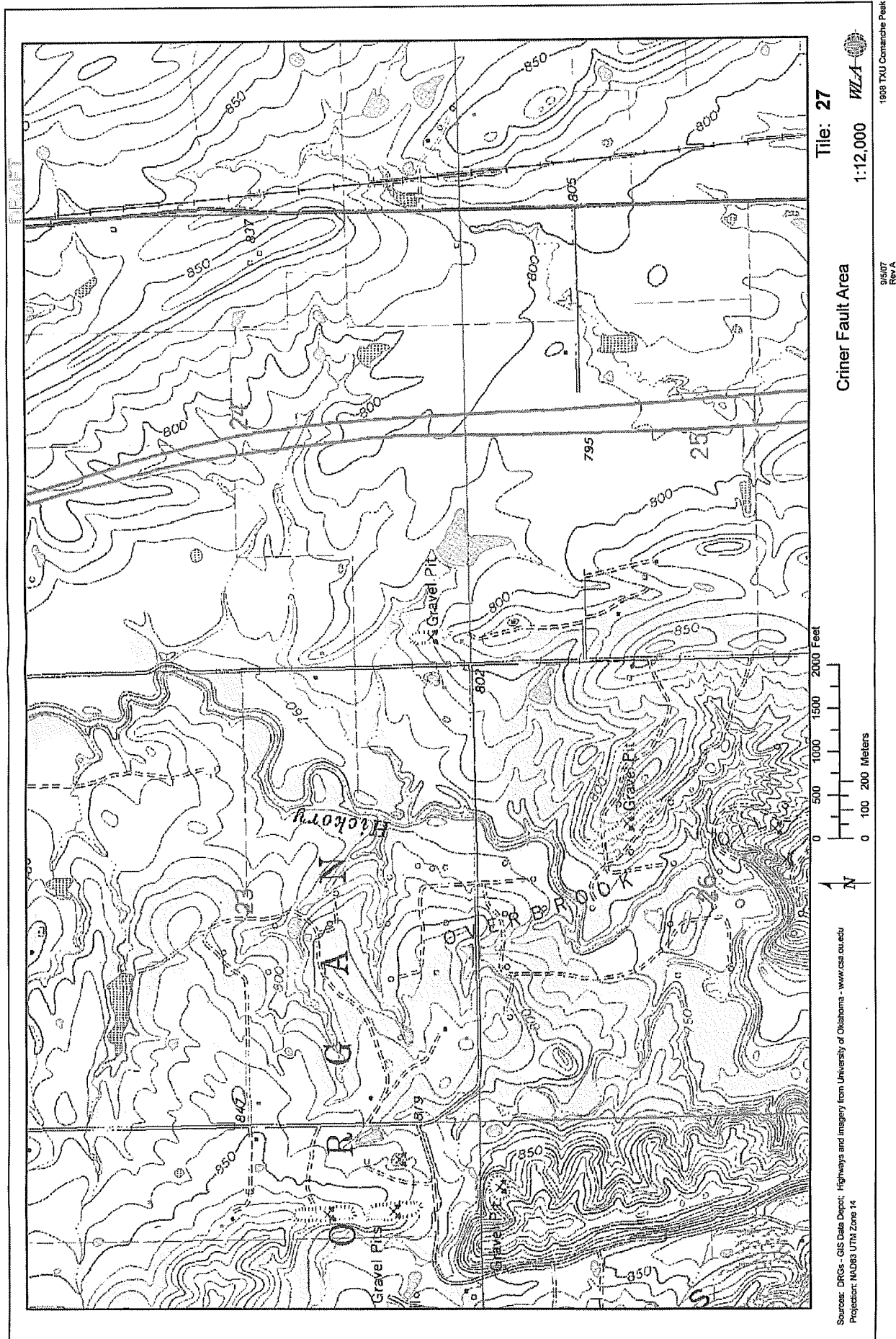
Tile: 26

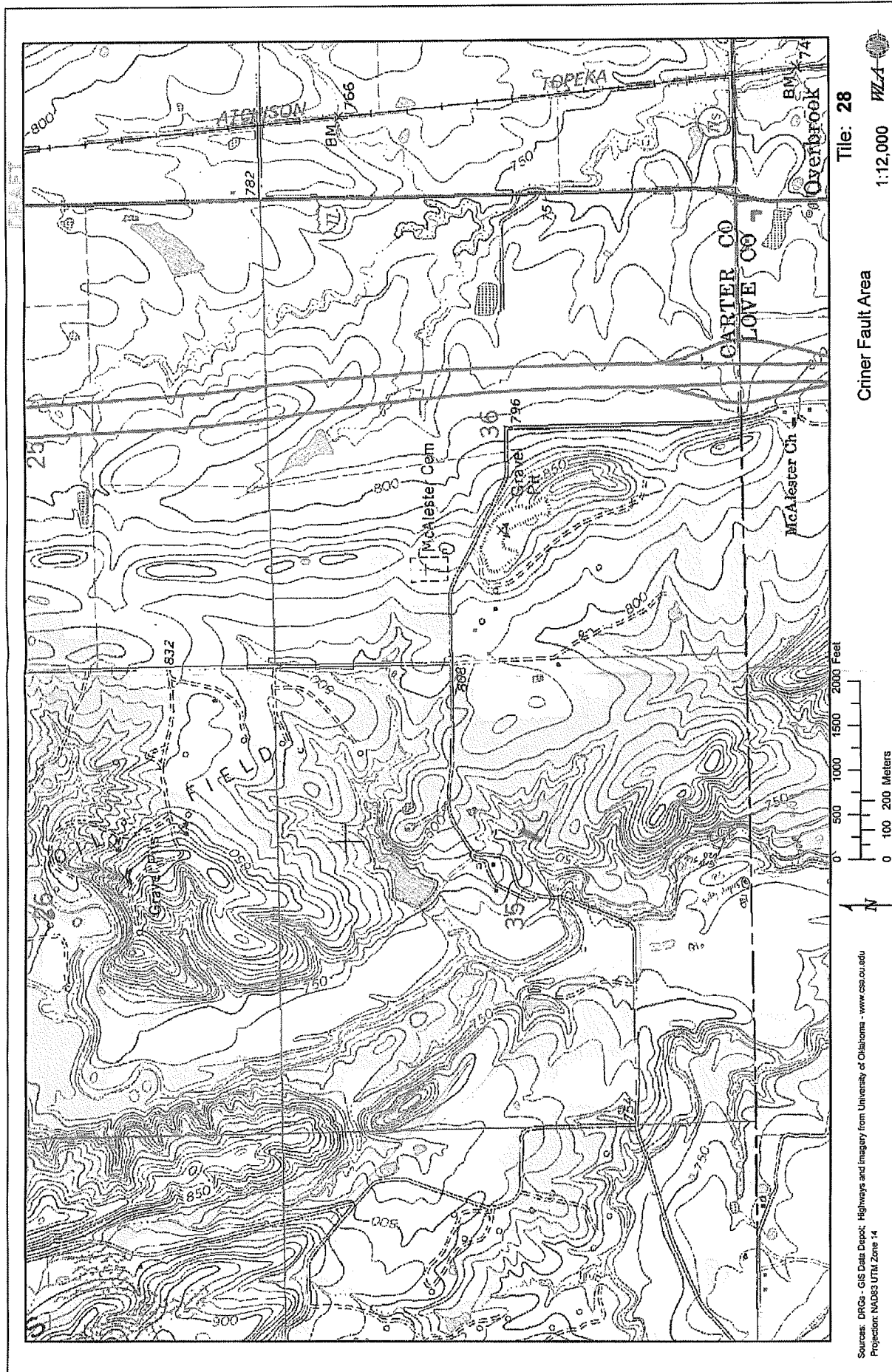
1:12,000



1908 TXU Comanche Peak

9/5/07
 Rev A

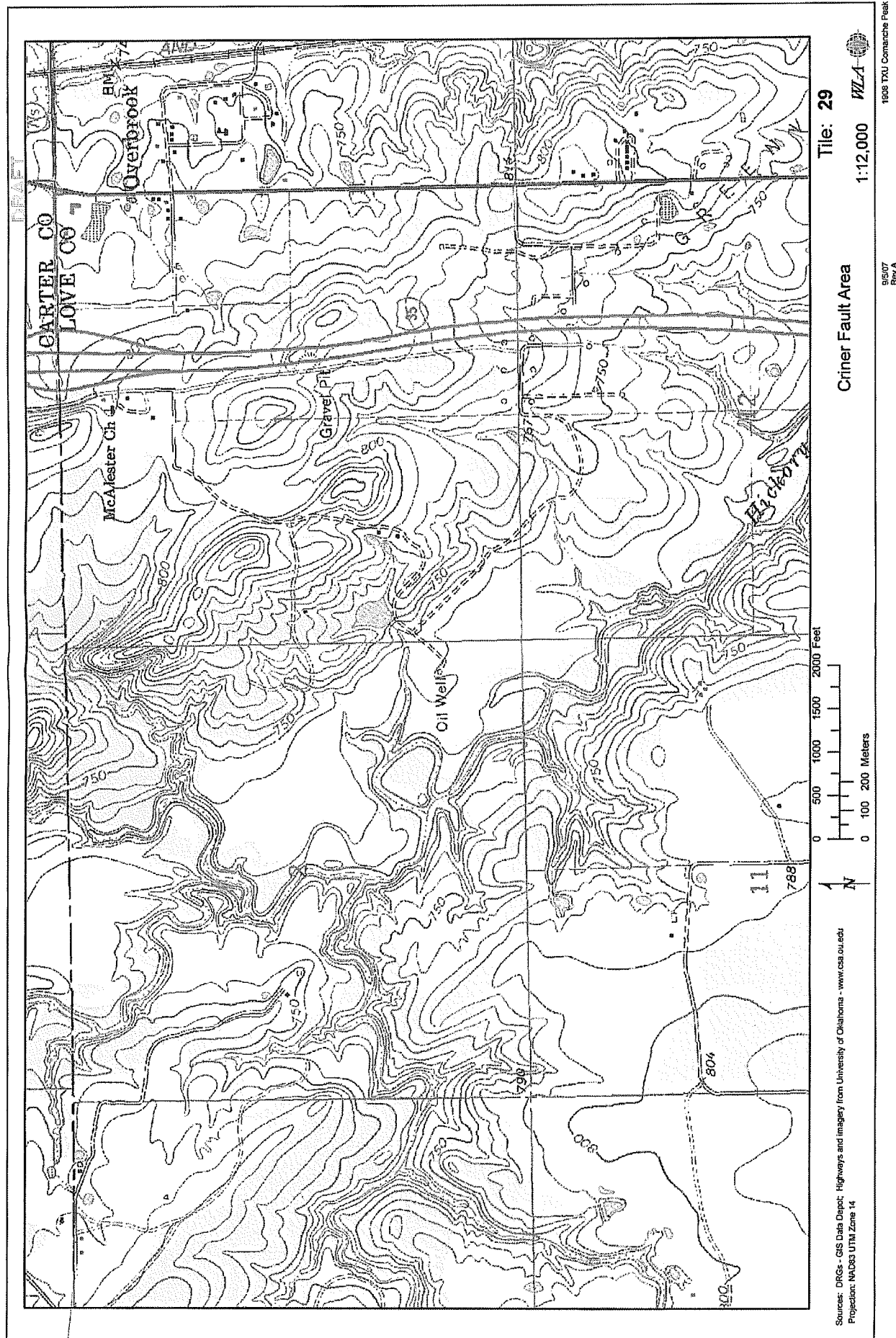


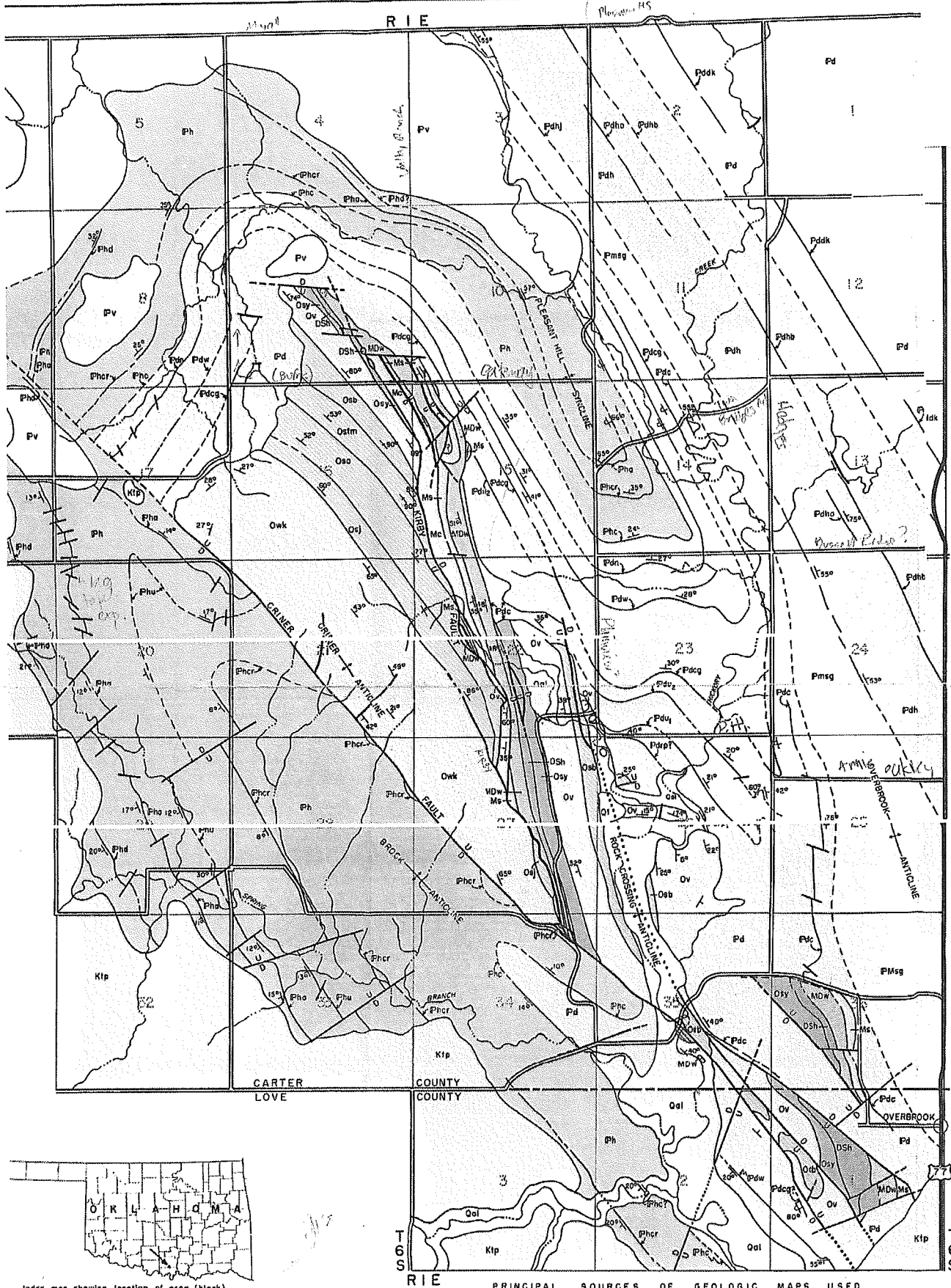


Sources: DRGs - GIS Data Depot; Highways and Imagery from University of Oklahoma - www.csa.ou.edu
 Projection: NAD83 UTM Zone 14

9507
 Rev A

1998 TXU Comanche Peak





Index map showing location of area (black)

RIE

PRINCIPAL SOURCES OF GEOLOGIC MAPS USED

Harrison, E.V. Jr., 1948
Ramay, C.L., 1957
Rogers, W.D., 1948

Graduate student
Special Mapping Problems
University of Oklahoma

Cary, L. W.	Noll, C. R., Jr.
Couch, K. R.	Pendleton, W. M.
Hruby, A. J.	Pierce, C. D.
Kimberlin, Z. A.	Rowell, T. D.

Unpublished Map
R. C. Lang, III, Somedon
Oil Co., Pre-Pennsylvanian
Map of Love County

Lat	Long	Source
32.75269	-96.53202	Track20071012_MEEG_aerial
32.75269	-96.53202	Track20071012_MEEG_aerial
32.75228	-96.53181	Track20071012_MEEG_aerial
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32.75252	-96.53198	Track20071012_MEEG_aerial
32.75242	-96.53193	Track20071012_MEEG_aerial
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 ENERCON SERVICES, INC.	PROJECT REPORT	No. TXUT-001-PR-013
		REV. 0
		APPENDIX D

APPENDIX D

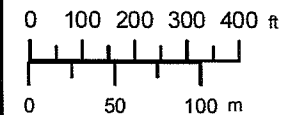
CATALOG OF GROUND AND AERIAL PHOTOGRAPHS FROM
RECONNAISSANCE TRIPS 1-4 (DIGITAL PHOTOGRAPHS)
PAGES 1-89

PROVIDED ON ACCOMPANYING CD



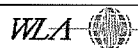
Explanation

— GPS Tracks (May16-19, 2007)



Sources: GPS Track - Garmin GPSMap 60Cx

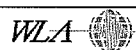
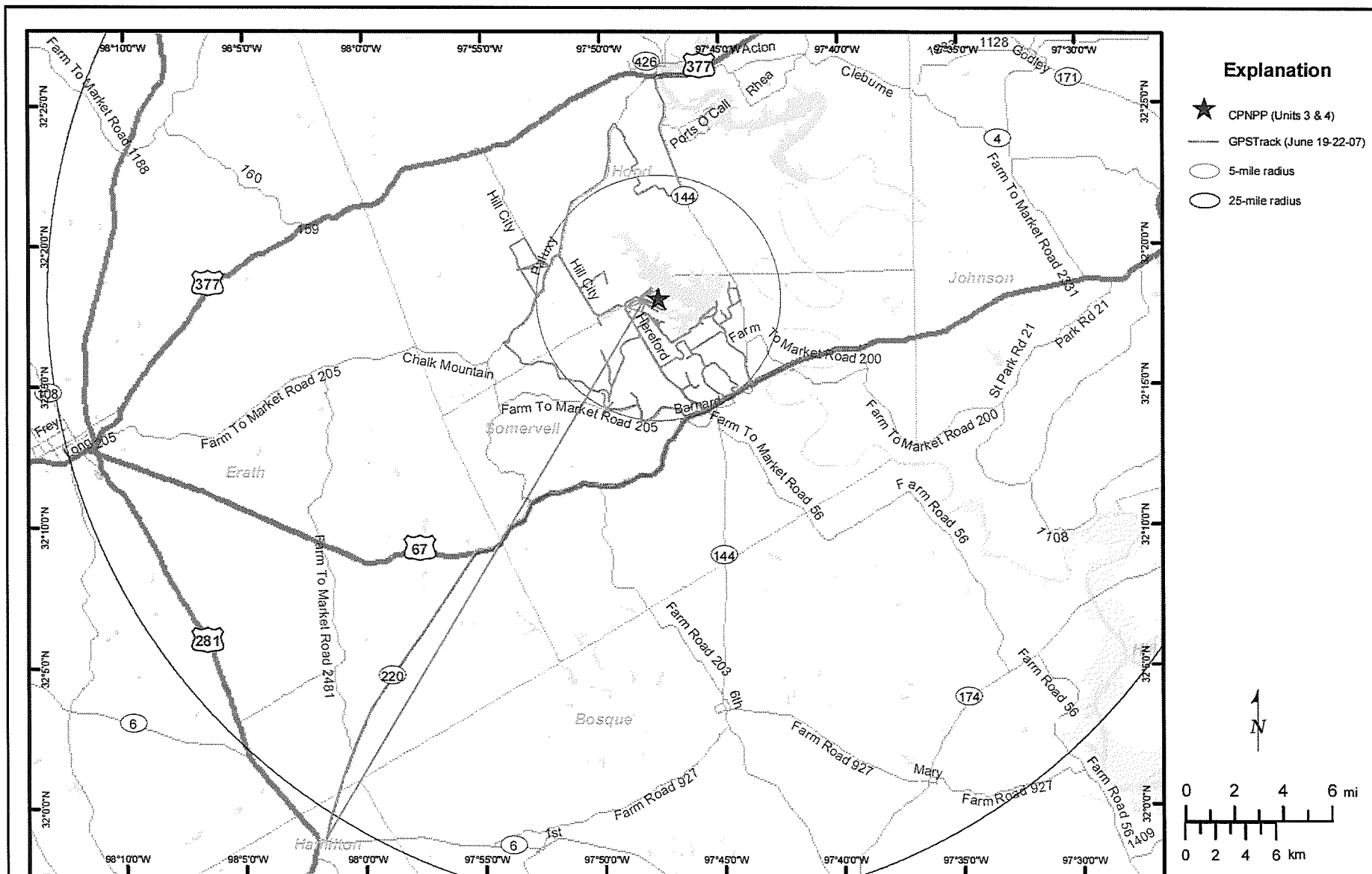
Projection: NAD83 State Plane, Texas North Central



GPS Track Log for Field Reconnaissance May 16-19, 2007

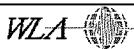
T X U C O M A N C H E P E A K

D83_GPSTrack_log_Field_Recon_5-16-07_RevA_112707.mxd



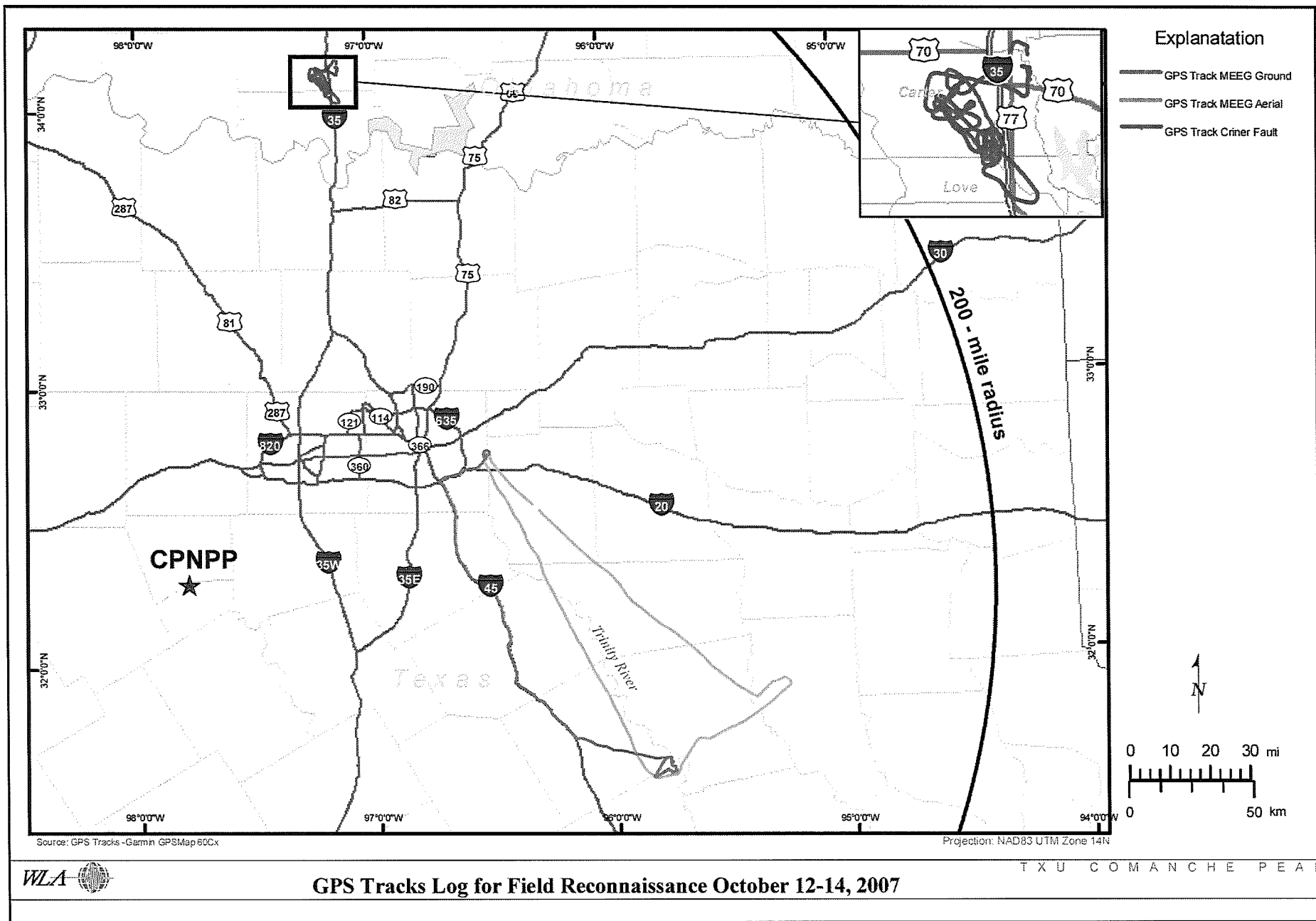
GPS Track Log for Field Reconnaissance June 19-22, 2007

TXU COMANCHE PEAK



GPS Track Log for Field Reconnaissance August 27-29, 2007

D85_GPSTrack_log_Field_Recon_Aug27-29_2007_RevA_112707.mxd



2

Location Commerce Park Date 5/16/07
Project / Client TXU / 863

Parked car at hole in fence.

- Traversed from hole in fence to location of boring B1043.

Black stone at this location, is relatively massive and resistant forming a distinct slope break with steeper topography downhill. B1043 spudded just below lip formed by resistance unit.

STA 1 N 32, 302.88° B19:12.351
W 097, 795.81° Elev

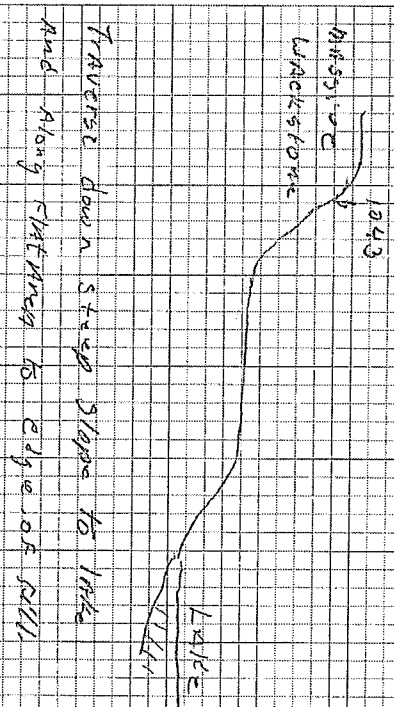
on top of B1043

Topographic slope break occurs ~ 20 ft uphill from B1043 location.

3

Location _____ Date _____
Project / Client _____

Scale



STA. 1 N 32, 302.13° Elev. 812.1191
W 097, 795.22°

F1111 OBSERVED from blackly exposed and indications of organic matter and tree stumps. Edge of fill forms very steep to thin. Geomorphics of left shown.

6

Location _____ Date _____
Project / Client _____

STA 3 Toe of debris slope,

Debris too very evident

From tendency the turning slope

Slope.

Photos 6, 7, 8.

Located ~ 20 ft west of small

stream.

N 32.30328

W. 097.79501

- Lost my reading glasses from
doing the snake dance. Rick
will be taking notes.

7

Location Cowanche Park Date 5/17/07
Project / Client TXU 1863

Scale

Started Traverse from hole in the
fence. 9:15 PM.

STA 8 9:30 AM. Located at head

of creek.

N 32.30141

W 097.79748

Traverse from Station 1 followed

Outcrops of massive sandstone

to gray sandstone that forms

the rim of the upper terraced

slope here. More or less continuous

exposure of this unit from

station 1 to this location along

traverse route.

This unit characterizing hills

ledges from a few inches to 5

ft thick are to the same

massive at some the layers.

(Photos #16 + 17)

8

Location Comanche Peak Date 5/17/07
Project / Client TW 1863

STA 10.1

Increase down creek from station 9
shows a shale unit ~ 1st thick
just below station 9 but more or
less competent massive to shaly
limestone to graystone, creek banks
well developed.

Photos 18, 19, 20,

Shale vertical creek banks
of limestone.

STA. 11

Small waterfall in creek.

with overlying relative massive
limestone (~ 8" thick) underlying
by shale that extends to
bottom of small pool.

Traverse down the creek & this
point shows more or less continuous
outcrop. ~~Below this~~
point the topography flattens out

9

Location _____ Date _____
Project / Client _____

Scale

And Alluvium And terrace development
become more common.

Photos 4, 8, 11, 9

10:20 AM batteries running out
on GPS returning to facility,
N 32. 30253

W 091. 79773

STA 12

geological control
point located on prominent
white house unit on

lower plateau.
Pavement outcrop at this location
of interest to company needed
subcontractor.

N 32. 30254

W 97. 79823

Photos 14, 28, 29

Field for scale

10

Location _____ Date _____
Project / Client _____

STA 13	N 32° 18.160'	
W 97	47.877'	
Traverse down creek from STA 12		
Shows relatively thickly bedded (~4-6") sandstone, STA 13 located @ same outcrop		
in creek underlain by relatively lean shale (~18") thick exposed. (Photos 30 + 31)		
STA 14	N 32. 18.205	CP5 Elev
W 97	47.821	800
Located A-South on NW branch of small creek described @ STA 13. Outcrop consists of relatively thickly bedded (4-6") sandstone underlain by thin (~2") shale unit.		
Photos	32 - 35	at outcrop

11

Location _____ Date _____
Project / Client _____

Scale

Relatively soft thinly bedded sandstone to shale flows the creek for 750 ft down stream from this location.		
STA 15	N 32° 18.218'	CP5 Elev.
W 97	47.865'	827 ft
Traverse up the creek from STA 14 to this location shows mostly medium to thin bedded sandstone with no recognizable outcrops. Clearly discernible thickly bedded (~6-8") sandstone on escarp @ this location. Section outcrops of sandstone are located nearby in the bedrock.		

12

Location _____ Date _____

Project / Client _____

STA. 16 N 32° 18,242' GPS Elev.
W 97° 47,885' 838 ft

Outcrop of massive light orange
to greenish gray extremely hard
granite - wackstone, contains
ooids. (sparite?)

Forms prominent ledge in creek.

This unit is overlain and underlain
by thickly bedded wackstone.

Outcrop of the same occurs
in bottom of the creek to the
south of this location about
50 ft. located @

N 32° 18,243' GPS Elev.
W 97° 47,887' 838 ft

photos 36 & 37

13

Location _____ Date _____

Project / Client _____

Scale _____

STA. 17 N 32, 2486.6°
W 97. 73595

Building Stone quarry on NE edge of
Glen Rose, TX.

Massive to thickly bedded wackstone,
photo (42). ~~1/4~~ Fresh unit ~~thin~~

Shows fine bedding near construction

Shows shaley unit at base. (photos 43 & 44)

STA. 18 Outcrop located on H200
@ BM 682

Massive to thickly bedded
wackstone. Sparite unit from
prominent ledges at this location

Hand sample collected.

photo #45

14

Location Georgetown, TX Date 5/19/2007
Project / Client TXU 1863

STA. 19 N 30.64611°

W 97.843388°

Out crop of blocky limestone
on HY29 just east of intersection
with HY183.

This outcrop should be located
near the fault shown on the
Tectonic Map of Texas. However,

no evidence of deformation

is this outcrop. Except for one

location that shows a 2 ft offset,

Photo #46-49.

offset shown in Photo #50.

15

Location _____ Date _____
Project / Client _____

Scale

After leaving the station and

crossing HY183 we will join the

field trip / excursion given by

Rescue Geologists Society, Field Trip

Guide book #4. by Mark & Marc.

STA. 20 N 30.76225°

W 99.32886°

Outcrop located on north side
of HY29 a few miles west of intersection.

Rock is brown fine grained K-spar,

plagioclase, quartz, with alternating

layers of K-spar rich and K-spar

poor layers. Concordant pagonite

layers are also common.

16

Location Texas Lake State Park Date 5/19/2007
Project / Client _____

STA. 21 N 30.76225°
W 98.32880°

Devils Watering Hole, Texas Lake
State Park

Valley Springs, Texas

Strong grey basaltic rock with intrusions
by veins of spar with granules.

Photo's 61-55.

17

Location Park 4 Date _____
Project / Client _____

STA. 22 N 30.76225°
W 98.32880°

Pelican section (Elongated) through
fractured over Proterozoic granite.

Inverse back down into Hudson valley
along the road shows the Proterozoic
to become progressively more bedrock.

(brecciated) near ex. Elmer road

Photo's 56-57

Scale

18

Location Austin, TX Date _____
Project / Client _____

STA. 23 Hopper Point Overlook

N 30.76125°
W 98.32980

Chadwick Gap & High Mountain
Sandstone over is replaced
to north side of the point

Point's 58°59'

STA. 24 N 30.27912°
W 97.89663°

Located where Barton Creek
crosses SE Highway, 130 ft
of Balcones fault escarpment
According to field guide
#21.

During East on SE Highway
the road crosses the escarpment.

19

Location Barton Springs, Austin, TX Date _____
Project / Client _____

Scale

STA. 25 N 30.25709°
W 97.89663°

Balcones fault exposure @
Barton Springs, George Town KS
to the east / Edwards live stone

Stop 7B 17. Gailor Brook 11a.

Point's 62°65'

20

Location Comanche Fork Date 6/19/2007
Project / Client TXU

STA. 26. N 32. 30458°
W 97. 80582

Left Outcrop of upper washstone
on top of hill south of Ponderosa
Location at this location is well
exposed and from large parent
Outcrops

STA. 27 N 32 32. 30751°
W 97. 80613°

Outcrop of washstone at top of ridge
washstone at this location from good
parent outcrops.

21

Location _____ Date _____
Project / Client _____

Scale

STA. 28 N 32. 30771°
W 97. 79974°

known down the hill to the point
above that, washed to near washstone
at this location. Argilline occurs along
and much along boundary from
fine to partially the contact and
the middle shale sand.

STA. 29 N 32. 30806°
W 97. 79972°

Contact with middle shaly sand and
lower shaly, bedded to medium
washstone. Outcrop at this location
from the chert sand flagstone
and parent.

22

Location _____ Date _____
 Project / Client _____

STA. 30 N 32.30950'
 W 97.79849'

Downward outcrop of lower limestone
 unit. Plat. 85 of measurement on
 ceiling surface.

STA. 31 N 32.30368'
 W 97.80091'

Small downward outcrop of limestone
 in road near fence cut.

STA. 32 N 32.30719'
 W 97.79233'

Located @ intersection of Stoneham
 w/ line shown - numerous outcrops
 of lower limestone.

Location _____

Date _____

Project / Client _____

Scale _____

STA. 33 N 32.30171'
 W 97.80672'

Outcrops in ditch running west of
 the foundation is a not so steep
 and character of bedding.

Bedding foundation. Level of rock
 is the east but not on bedding.

23

24

Location Comanche Ranch Date 6/12/07
Project / Client Z&Y

STA. 34

N 32.29303
W 97.80336

Outcrop of white caprock on road
side of road. Unit exposed immediately
before and after is a shaly limestone

Sample of 'white caprock' later

STA 34 HS-22

STA 35

N 32.28682
W 97.79263

Outcrop of red clayey sand on
east side of road (Paddy Township)

Location

Date

25

Project / Client

Scale

STA. 36

N 32.29126
W 97.75786

Outcrop on the road side of road
about 1/2 mile east of Sugar Creek

Reservoir dam. Outcrop consists of

thick, to thinly bedded limestone
interbedded with shale and

shaly lime stone. A small

spring occurs on the road on

the east end of the outcrop.

Photos of the outcrop + 87-92

+ 93

had many fossils of

N 32.29126

W 97.75786

26

Location Comanche Park Date 6/24/07
Project / Client TCU

STA 37 N 32.29725
W 97.79956

located on main road just
west of bend.

located between trucking loaded
upside Wilmington unit and
Main Shady unit to the south.
down the hill

Wilmington at this location, so
easily changed probably granite.

27

Location _____ Date _____
Project / Client _____

Scale

STA 38 N 32.29661°
W 97.79353

Manure to truck loaded
Wilmington up thru underneath
shady unit. Wilmington shows
heavy developed feet set.

1st spacing, most well developed
set oriented! 10°-35° dipping 88°

but has well developed set!

170 @ 55° S

Outcrop sections continuous about

1/4 mi to the east of this location

- dip is toward the south shows oriented
grainage and some limestone
porous surface. (Hill 5 - my car)
57438 45-23

28

Location _____

Date _____

Project / Client _____

STA. 39 N 32.26272°

W 97.76178°

- Palmy - Clear Rose Contact
County Road 301A, Red Clay, south
of Landry. Fossils occur to the
west of this location, Clear Rose
to the east.

STA 40 N 32.27617°

W 97.74063

Palmy - Clear Rose contact

Palmy occurs along both sides
of the road to the west of where
located. Clear Rose occurs on the
north of the road and Palmy to
the south along road to the
east of this location. The road
provides follow the contact
for a few hundred yards to
the west.

29

Location _____

Date _____

Project / Client _____

Scale _____

STA. 40A Clear Rose formation occurs

on both sides of the road
at this location

N 32.27697°

W 97.75913°

STA. 41 N 32.23299°

W 97.77265°

Cut off by 1/2 mile
west of Clear Rose

Two 2' or more thick
bedded limestone + Macchabae
underneath. Stationary layers.
Photo #1's 95-100.

30

Location _____ Date _____
Project / Client _____

STN 42A	N	32.30385	
	W	97.84531	
Dolby Formation - located in road cut on H 56 south of this City.			
- fine grained micaceous to very consolidated sand (highly silty clay).			
interbedded layers of non cyclic consolidated sand (~2 in. thick) beds are relatively flat lying at this location			
photos	97+98		
Soil Moister: medium, to a weakly yellow.			
STN 42A - H524			Early fine grained
			loose consolidated sand
STN 42A - H525			loose consolidated sand

31

Location _____ Date _____
Project / Client _____

STN 42B	N	32.30267	
	W	97.84451	
Traverse along road cut to the west - this point shows relatively flat lying beds. At this location			
beds are dipping moderately to the west. Photos 99 - 104			
So = bedded micaceous.			
915 @ 1510		187 @ 2310	
235 @ 1710		185 @ 1810	
213 @ 1810			
At least one well developed set of joints (spacing from 0.5 to 1.0 ft). Some of the are filled with a fine white material (calcite?) & yet - a large			
0.22 @ 896		0.15 @ 646	
0.43 @ 676			

Scale

32

Location Camaracho Park Date 6/22/07
Project / Client TXU

STA 43

N. 32.36789°
W. 97.79308°

Contact between Polity and

7 reduction (Waters East)

formation

Disturbance and exposure along

road to the east of this location

show red clay about characteristic

of western Polity formation

up the hill and to the west

is a contact between clay and

thin limestone layers. There are

probably limestone and shale of the

limestone and shale

Location

Date

Project / Client

Scale

STA 44

N. 32.36585°
W. 97.80053°

Contact between Polity and

Polity formation

Soil is dark and appears to be

red and is of the location

show red clay about characteristic

of western Polity formation

formation. Most of the location

limestone and shale of the limestone

clay formation and shale

34

Location _____ Date _____
Project / Client _____

STA 437 N 32, 36890
W 97.80643

Outcrop along road to the east
of the location on highway and
several ft. below crest of road

No exposure to the west or east
of the outcrop but the location
is probably close to the contact.

STA 446 N 32, 33560
W 97.84034

Sycamore Creek Malpais Quarry
Outcrop of massive to thin, bedded
limestone, sandstone and granitic
with shaly limestone layers.

Photo of Outcrop #107+108

35

Location _____ Date _____
Project / Client _____ Scale _____

STA 447 N 32, 338920
W 97.838850

Sycamore Creek Malpais Quarry

Recessed into the road to the east of
quarry wall. Exposure
bedded angular sandstone
limestone, bedded limestone
limestone and quartz, non-shaly
rock.

The bedded limestone appears
to be due to strata in the
quarry. Limestone is not so hard
bedded appears to be parallel
with shaly sandstone.

36

Location _____ Date _____
Project / Client _____

STA. 48 N 32, 34766 Empire Ave. near
W 97, 80840

Palmy - Glen Rose Contact

Outcrop and ditch along the road
west of the location above. Remains
of the lower section of Glen Rose.

Between Redburn Brown clayey sand
of Palmy at the location and
in ditch east of here.

STA. 49 N 32, 35088
W 97, 78312

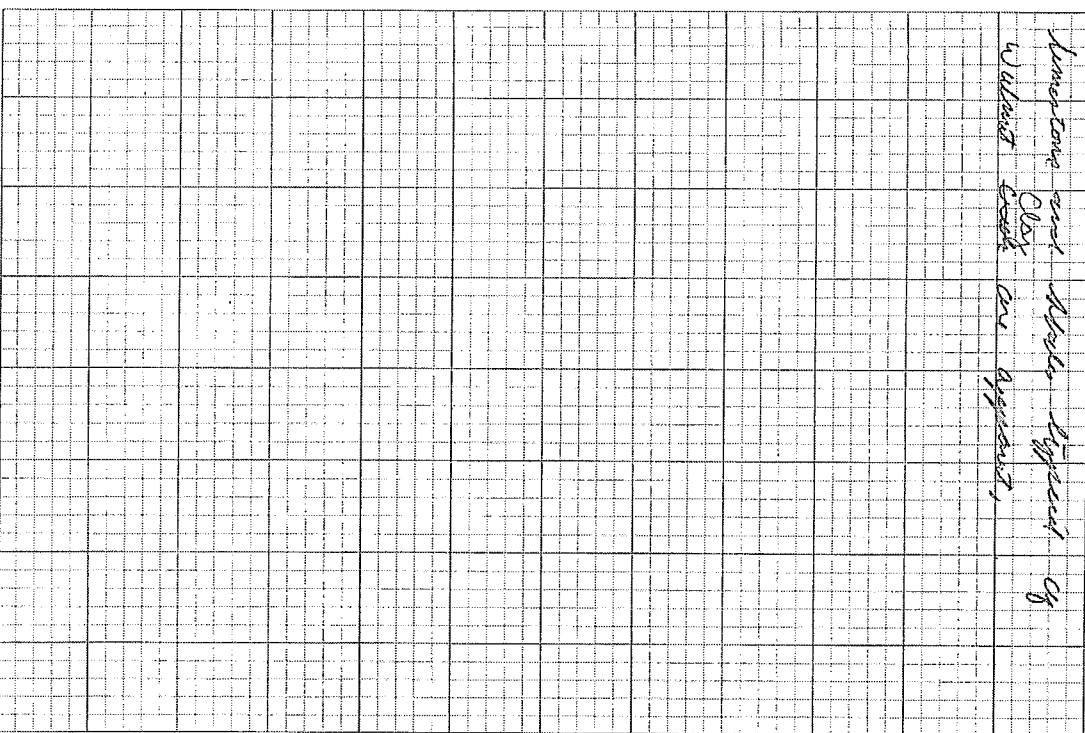
Palmy - Walnut Creek contact
Exposure along road to the
west of the location above. Redburn
clay, some typical of 11 contact
Palmy formation. Too far to see
any at present from Walnut Creek

37

Location _____ Date _____
Project / Client _____

Limestone and Algal fragments of
Walnut Creek are abundant.

Scale



38

Location Stillmore Hollow Date 8/28/07
Project / Client Acg Note Spilling
Continued East

STN 51	Stillmore Hollow Lake
Spilling	
N 31.01383°	
W 97.53713°	
	After Spilling cut ~1/2 mile nesting down.
	Small offroad in ~18" measure Acacia tree nearby.
	Photos 114-119.
STN 51	N 31.014406°
W 97.53796°	
	Small gold sparrow in measure Treeing habitat nearby ~50m W of last location. forest dis cut in been forest nearby. Small gold tree ~ 1m wide.

39

Location _____ Date _____
Project / Client _____
Scale _____

	Close together down a fraction of a meter. The color of the forest changes to a more yellowish green nearby.
	Photos 114-119.
	After relocation of measure line in direction. forest down and ~30m west of STN 51
	Photos 120-122
STN 52	N 31.01031°
W 97.54099°	
	- Looking back on road road of spilling. Photos 123- 124. Spilling forest. Photos 125-126. Photos 127-128. Photos 129-130. Photos 131-132. Photos 133-134. Photos 135-136.

40

Location _____ Date _____
Project / Client _____

STA. 53 N 31.00 946

W 97.536 700

downward level in shoulder
of highway
Photo 129 taken looking South,

STA 54 N 31.01 376

W 97.534 735

Dawn folded beds on north wall
of quarry (Photo 128). Two
feet from ~ 6" wide space
of breccia in the corner (photo 129 & 130).

41

Location Comanche Area Date 8/29/07
Project / Client TRU

D 9 Sta. Kilometer Check _____ Scale _____

STA. 53 N 32.29 2770

W 97.80 470

Attempted to obtain basement on
East. Road always obstructs

STA. 54 N 32.80 9600

W 98.10 3740

Mineral Wells formation exposed
on east on north face of East
Mountain on mineral wells, TX.
(Photos 131 & 132)

42

Location Connecticut River Date 8/31/02
 Project / Client _____

Sta 57.6 monument elevation 101.4102

Stem Casing cut from old
 at monument location 102 has
 been removed with cut off

Monument 101 mark elevation
 located in slope ground top western
 exposure is missing.

Sta 58 N 32.285770
 10 97.713290°

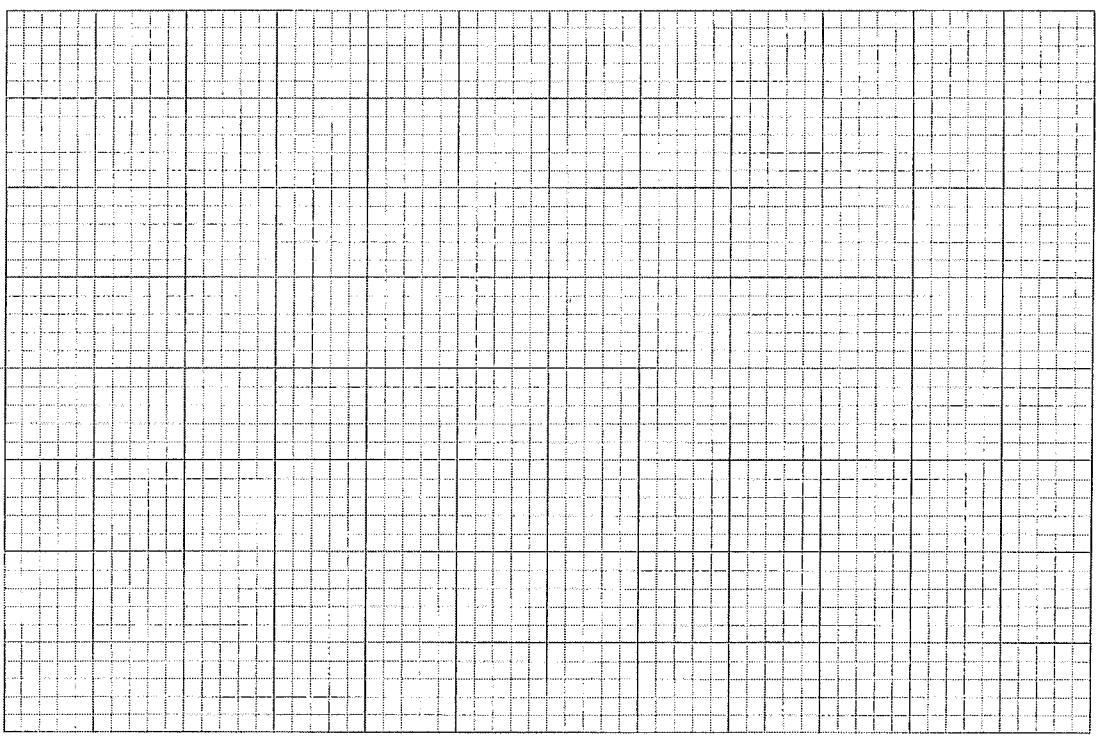
Base Outcrop of Glen Rose formation
 measured by Qc. On County Road
 100 This station is located on the
 central section of the Glen Rose
 and Qc. Road to the south and
 east of the station is about 20
 50 meters west of the center.

Glen Rose formation south from
 a previous study to east of this
 location.

43

Location _____ Date _____
 Project / Client _____

Scale



Way Points

5-16-07

ONSITE + checked in with

B. Wetmore

F. Syms, R. Combest, R. Ortiz

@ IRB to begin initial work

Begin Recon of Area North (NW)

~~East~~ West of Unit 1 on
other side of concrete barrier
+ fence.

End track 16-MAY-07-TK1

SAVE 16-MAY-07-TK1

↳ track log saved.

B. Wetmore

R

COORDINATE SYS: NAD27 CONUS
STA 01: @ B1043 top of stake (+2.5')

N 32.30288°

W 097.79581

elev: 819 ft

Accuracy: ± 12.3'

- massive limestone outcrops laterally continuous to East + West ~ 3 ft above + below B1043.
- Limestone created steep slopes w/ break in slope

STA 02: NW Edge of Fill (ground surface)

N 32.30313°

W 097.79522°

elev: 812 ft

Accuracy: ± 14.1 ft

- Heavy tree coverage
- much limestone boulders + tree stumps

5-16-07

0900 ONSITE + checked in with

B. Wellman

0921 F. Syms, R. Combest, R. Opatz

② 1 PB to begin initial work

1128 Begin Recon of Area North + (NW)

~~East~~ of west of Unit 1 on
other side of concrete barrier
+ fence.

1500 End track 16-MAY-07-TR1

Start 16-MAY-07-TR1

↳ track log saved.

1700

Back

R

Way Points

COORDINATE SYS: NAD 27 CONUS
STATION: ② B1043 top of stake (±2.5')

N 32.30288°

W 097.79581

elev: 819 ft

Accuracy: ± 12.3'

- measure limestone outcrops laterally
continuous to East + West ~ 3 ft
above + below B1043.- Limestone created steep slopes w/
break in slope

STATION: NW Edge of Fill (ground surface)

N 32.30313°

W 097.79522°

elev: 812 ft

Accuracy: ± 14.1 ft

- Heavy tree coverage

- much limestone boulders + tree stumps

STAO3 - Northern Edge of Fill

PHOTOS: 6, 7, 8 → (R. Corbett
camera)

N: 32.30326°

W: 097.79500°

Elev: 799'

Accuracy: ± 12.5'

- large stumps + sediment

flow around established trees,

front of limestone boulders

- ~ 20 ft west of small stream

② base (top) of steep slope

that has an approx. 15-20 ft

of elevation gain



PHOTOS 6, 7, 8

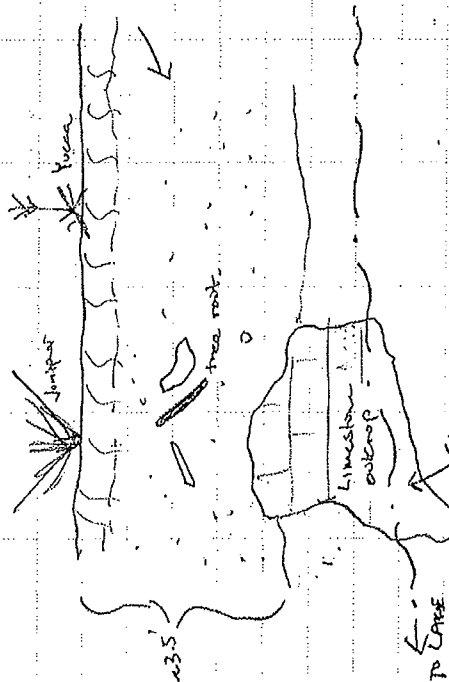
STA04:

N: 32.30435°

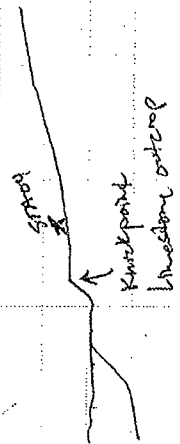
W: 097.79329°

Elev: 757 ft

Accuracy: ± 7.5 ft



NOT TO SCALE



STA 04: West bank of Gully (Stream cut)
The fill, Banks are vertical (photo?)
it exhibit a range of grain sizes:
silt + sand to cobble + boulder
gravel. Traverse from STA 03

Check New air photos for this Gully

Followed topographic contours (w equal elevation) across a large
package of fill, no visible
outcrops were observed within
smaller stream channels.

- AT STA 04, in place limestone
outcrop is forming local channel
bottoms within steep gully cut,
fill material is found overlying
the outcropping limestone (photo 10 of 11).

- All trees between STA 03 + STA 04 are
all approximately the same age,
~~the~~ most are juniper, ~~Age~~ Age
is estimated by uniform size
of trees.

~ Approx 15' North (towards stream) ledge of
good outcrop forms a knick point within
the stream channel.

STADOS: Edge of Fill @ Fence line.

- Extent of fill is obvious + easy to follow up from flats to fence line based on cut + pushed over tree stumps + randomly oriented blocks of float material, break in slope at toe of fill is clear + easy to find + follow.

N: 32.30391°
 W: 097.79252°
 Elev. 809'
 Accuracy: ± 16.1 ft.

STA06: ② B2051 (ground surface)

- located in middle of slope
along ~~edge~~ the massive
wackestone outcrop that
forms the main slope break (natural)
between the flat construction
parking lot and the lake

N: 32.30333°

W: 097.79095°

Elev: 776 ft

Accuracy: ± 10.2 ft

STA07: Edge of Eastern fill package

Approx 30 ft ~~to~~ WNW of

NW 1209 - cluster

- large boulders of wackestone

stacked against each other,

Native material to the west

+ NW of this point.

Identifiable (good) outcrop

of native wackestone WNW

of STA07.

PHOTOS 12, 13, 14?

N: 32.30322°

W: 097.78962°

Elev: 819 ft

Accuracy: ± 15.0 ft.

STA08: North Edge of eastern
fill package

N: 40 ft N. of NW1209,
PHOTOS 15

N: 32.30319°

W: 097.78944°

elev: 790'

Accuracy: $\pm 15.7'$

END
of
DAP
5/16/07

5/17/07

- RC + RO enter fenced area
at hole in fence along west
edge of unit 1 Area @ 0915

STA09: Along creek bed. Limestone
knist point.

N: 32.30161°

W: 097.79748°

Elev: 838 ft

Accuracy: ± 10.0 ft

PHOTO 16, 17

STARTED TRAVERSE TO STA09 FROM STA01.
FOLLOWED LIMESTONE OUTCROP ALONG
APPROX EQUAL ELEVATION TO STA09.
OUTCROP (UPPER WACKESTONE) IS CONTINUOUS
FLAT LYING AND FORMS A PROMINENT
LEDGE IN THE AREA.

STA 10: LIMESTONE OUTCROP
ALONG CREEK BED.
HIGHLY WEATHERED + FISSILE,
MASSIVE TO THINLY BEDDED.

N: 32.30182°
W: 097.79725°
Elev: 824'

Accuracy: ± 12.3 ft
PHOTOS: 18, 19, 20

STA 11: Limestone ^{forms} knick point.
Limestone ledge ~~stratified~~ ^{forms} step within stream
large (deep ~ 3-4' pool) - Soft yellow-red shale

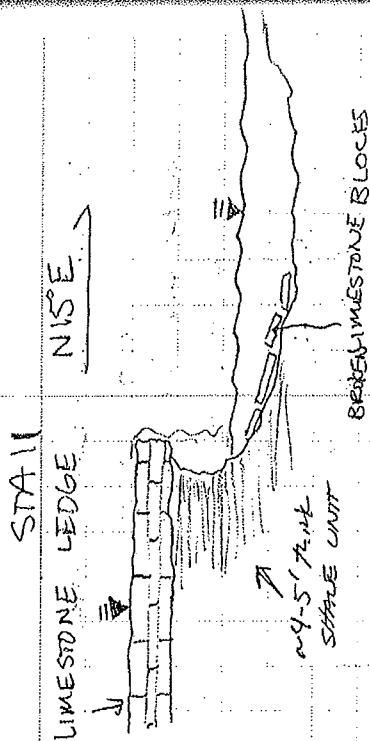
N: 32.30253°

W: 097.79713°

Elev: 837 ft $\rightarrow$ ~~NEAREST WE ARE~~
Accuracy: ± 12.8 ft. ~~LOWER THAN STA 10~~

PHOTOS: 18, 19.

underlies limestone ledge - SHALE UNIT
is approx. 4-5 ft thick.



Track Log Saved @ 1041 am.

$\rightarrow$ 17 MAY 2007 - TK2

$\hookrightarrow$ may include yesterday's track (TK1)
 $\hookrightarrow$ Needs batteries for GPS before
next excursion.

STA 12: Open, flat area
STA 12-2

N: 32.30256°

W: 097.79823°

Elev: ~~824~~ 820

Accuracy: $\pm 11.7'$

PHOTOS: 27, 28, 29

STARZ (STAR12-2): large open
 * flat outcrop of upper
 wackestone (clear white outcrop) or
 aerial photos). Headwaters
 of "middle" stream. ~~For~~
 limestone forms ledge/kink pt.
 with tribble of H₂O flowing
 down to main channel.
 Outcrop is medium gray (N5) a

STAR13: stream kink point
 limestone ledge with a
 thin shale interbed under water.

N: 32.30266°
 W: 097.79793°
 Elev: 810'
 Accuracy: ± 16.2 ft
 Photos: 20, 31

- shale bed is probably a sand
 interbed within the
 upper wackestone. Local topography
 in top step to consider this the first
 occurrence of the shale unit

STAR 14: Upper Wackestone/SHALE
 contact. Again this contact
 is located within a stream
 bed (stream #3) & is expressed
 as a kink point with the
 wackestone acting as a ledge
 & the shale being eroded
 out from under the ledge.
 This contact morphology is
 common to all major &
 minor contacts between the
 main limestone & the associated
 shale interbeds.

N: 32.30344°
 W: 097.79699°
 Elev: 773'
 Accuracy: ± 16.1 ft
 Photos: 32, 33, 34, 35

unit (limestone & shale) exposed within
 stream bed are highly weathered and
 soft when hit with a hammer.

STA 15: within streambed of
Stream #3. First
good location of upper
weathered outcrop. Dendroctonus
of this location ~~is~~
the stream channel is
dominated by an an alluvial
sediment package. Banks are
relatively steep but the "floodplain"
of the stream is relatively wide
(c. 100 ft) with heavy vegetation &
low lying meadow bars.

N: 32.30375°
W: 097.79789°
Elev: 839 ft ②
Accuracy: ± 18 ft

STA 16: Outcrop of "sparitic" limestone
limestone is very hard (numerous hammer
blows to break off a chunk) -
limestone ledge looks to be a
highly weathered. Limestone to packstone,
oolite, crystallization is
probably diagenetic in nature.

N: 32.30404°
W: 097.79809°
Elev: 831 ft ②
Accuracy: ± 18 ft

This unit is probably the main
ridge forming unit because of
its strength. Unit crops again
approx 50 ft to the SW (outcrop #2)
outcrop #2

N: 32.18243°
W: 097.4788°

20

5/18/07

• STA 17: large excavation (old meander
 bend of Delivery River?) -

Next to Highway 67

N: 32.24856°

W: 097.73594°

elev: 611 ft

Accuracy ± 8.8 ft

• STA 18: Spentite limestone outcrop
 East of Glen Rose, TX. FM 200
 also: Near BM 682 -

N: 32.28658°

W: 097.71068°

Elev: 641 ft

Accuracy: ± 12 ft

PHOTO: 45

band in road ^{East} ~~West~~
 of prominent limestone.

21

1961
~~1966~~
 1962 } Rev. 12/1970

Summary

OK

5/19/02

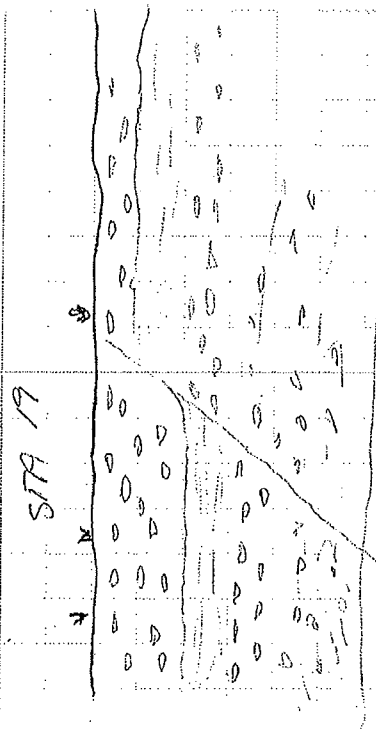
Note A: see note "A" on
page 24 for start of log
entry.

STA 19: Road 29 - westward,
limestone road cut.
limestone has a blocky texture
with a fine grained matrix.

N: 30.64660°
W: 097.85293°
Elev: 1004 ft.
Accuracy: ± 9.8 ft.

Due East of L. H.
- Shall rich with many bivalve
shell fragments.

~~the~~ - fault located within
middle of outcrop.
~ 2 ft. of offset; down to
the west



STA 20: Oxford granite,
moderately massive, found
in road cut west of
Burnett, TX.
Fine grained with some
pegmatite veins,
~ 1/6 to granitic

N: 30.74669°
W: 098.32692°
Elev: 1126 ft.
Accuracy: ± 13 ft.

5/19/07
 Note A.
 In Grandburg + head South -
 South east thru lakes +
 beyond. Heading towards the
 Plains uplift out side
 of Austin Texas.

STA 21 - Devil's waterhole, Inks Lake SP.
 narrow, highly deformed granite
 to (log guesser) pink + black,
 numerous dikes of felsic material
 intruded into the more mafic
 gneiss material. Mafic
 unit appears to be more ~~totally~~
 deformed than felsic unit.
 - Inks Lake Gneiss
 N: 30.74769°
 W: 098.35863°
 elev: 917 ft.
 Accuracy: ± 8.1 ft.

STA 22 - Ellenburg limestone,
 Paleozoic limestone, highly
 fractured, dips steeply to the
 east at ~45°, strikes
 ~060°

N: 30.69607°
 W: 098.37701°
 Elev: 1121 ft.
 Accuracy: ± 16 ft.

STA 23 - Hoover Overlook,
 Santa Feal of Devil's Backbone.
 Cambrian Sedimentary Rocks,
 turbidites + Shallow - Thrust on top of
 N: 30.64506°
 W: 098.41595°
 Elev: 984 ft.
 Accuracy: ± 16 ft.

Brittle deformation, Normal sense of
 movement within fracture along →

with earlier double deformation. Peds with
Anti-forms & Syn-forms have been
being deformed in a series of factors,
(called normal sense of movement),
some form "hoist & grabber" type factors
within the time interval.

5/20/07

Burnett to Austin - to Dallas -
~~back to~~ GBS May 60 c x keeps
~~STP 24~~ turning itself off. No
 continuous track log for two
 wint. Continuous tracking being
 kept with ctrex v. 3.0 c.

ST 24: Balances full,
no exposed. Exposed
along Southwest Parkway next
to Bennett's Creek. No exposure
of the fault at this location.

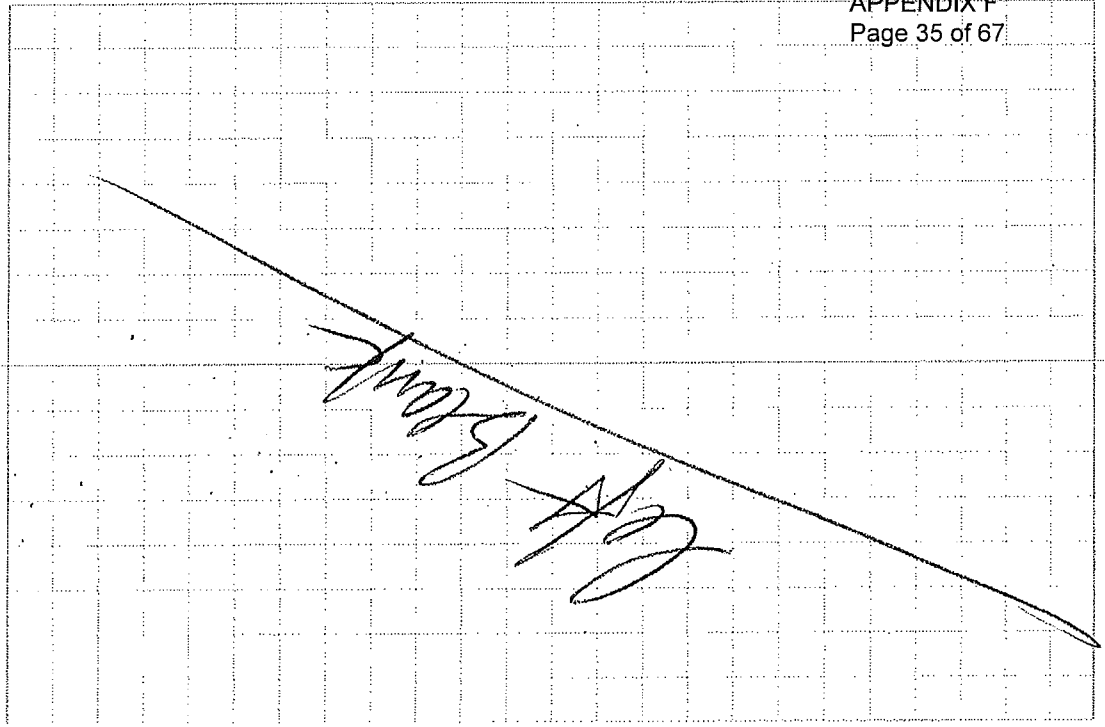
N: 30.27949°

W: 0979082

clav: 829 G

Accuracy: 7.3%

29



28

STA 25-

Filken Park - Austin, Tx

Balcones Fault @ Barton
Springs. Offsets Edwards
Limestone (west side) against
the Georgetown Limestone
(east.)

N: 30.26375°
W: 097.77041°
Flew: 417 ft.
Accuracy: ± 16 ft.

END of Recon Spts.
5/20/07
R.D.

6/19/07

TXU Recon #2 - Day 1

- R. Combust
- R. Ortiz- Walk North along transmission line
access Road to northern tip
of the "Water peninsula"

First Station of Trip = STA26

STA26

~~STA26~~ - E-W access Road off of
transmission line Road.

N: 32,30474

W: ~~097.80611~~ 097.80611

Elev. 864 ± 13.3 ft

- Glen Rose (upper waterstone outcrops
at top of ridge,- float + out crop visible @ surface
from truck location to STA06

STA27

- Top of ridge, waterstone outcrop

N: 32,30766

W: 097.80040

elev 843 ± 10.2 ft

waterstone is flat lying + forms
prominent pavement @ top of ridge.

STA28

waterstone/shale contact.

- Slope steepens + waterstone outcrop
+ float disappear. ~~top~~ surface

water is more prominent at

this location. Probably due

to contact with more

impermeable shale unit.

N: 32,30787

W: 097.80004

elev 804 ± 20.4 ft

• STA 29

- lower workstone at the creek bed.

- continuous visible outcrop along bed of creek + ~~the road~~ + about 20 ft or so.

N 32.30820°

W 097.79956°

elev. 786' ± 12.6 ft

STA 30 - lower workstone

at edge of lake, along new barbed wire fence.

- workstone has consolidated bedding + visible under rock ~ 2.5" wide (photo 85).

Picture 85

N: 32.30969

W: 097.79679

elev. 748 ± 10.0 ft.

STA 31

workstone outcrop on top of ridge. No STAND.

N 32.30385

W 097.80119

elev. 854 ft ± 11.8 ft

STA 32

lower workstone at lake edge. Located at point where stone wall (old) meets lake surface. We followed the stone wall above + crossed wall twice before reaching station.

N 32.30743

W 097.79288

elev. 763 ± 14.6 ft

STA 33 - Palmy Sand
 Red, clayey Sand, fine to v. fine
 grained, sticky.

Along N-S Road (Int.) North of
 V320's center, Palmy Sand
 is exposed at the surface on
 both the west & east side
 of the road. Flat, low area
 morphology in the area of
 exposure, no trees (prob. cleared).
 - North of Railroad track.

N 32.30193
 W 097.80705
 elev. 881 ft. ± 11.1 ft.

Blank

Blank

6/20/07

- check in w/ B. Weltman
 - go thru B012 +
 collect samples for thin sections
 to be shipped to lab for thin
 section creation.

Recon - South side of 0.6 mi
 radius.

STA 34 - White wackestone cap rock.
 prominent bed of fine upper
 wackestone with shale
 interbeds below + above.
 across road this white wackestone
 unit forms a prominent knife
 point within a small creek.
 High water flow over ledge forms
 a water fall.

N 32.29319 Handsample collected
 W 097.80386 STA 34 - HS-22
 elev. 800 ft $\pm$ 13.2' Wackestone, sparse
 corals

STASS - Palmyra Fm.
 Clayey Sand, Red
 N 32.28708°
 W 097.79297°
 elev. 873' $\pm$ 16.4' ^{FW}
 along Road to picnic area and
 gun range.

STA 36 - lower Glen Rose
 - very Shale. Many thrust
 to very thin interbeds of
 wackestone + shale,
 highly weathered. - yellow.

N 32.29150
 W 097.75818
 elev. 662' $\pm$ 10.9 ft

- at the base of the main
 Squaw Valley Res. dam.
- beds appear to be deformed

~~station~~
 10/15/07

Orientations along beds @
STA 36. - Wreckstone bed.
East to west

#1	320° / 04° N
#2	320° / 05° N
#3	335° / 09° N
#4	315° / 22° N
#5	310° / 10° N
	280° / 13° N

Location of the hinge of the structure
is: (HINGE 1).

N 32.29137°

W 097.75795°

elev. 656 ± 15.5 ft.

Blank
Left

6/21/07

RO + RC combine 0.6 mi. +
S mi Recon efforts.

STA 37

N 32.29740°

W 097.79990°

elev. 839 ft ± 90 ft

off along 4x4 trail. SE of established
dirt road south of gravel bank.

- Contact between upper wackestone
+ middle shale unit.
- wackestone is outcropped within
road + "walls" of road cut.
- wackestone is the Spangbe
member. (unit) etc.

STA 38 -

Along main plant Road South
of SSB + North of Delmon's office
building.

N: 32.29676°

W: 097.79382°

elev. 813 ft ± 13.9 ft.

interbedded

- Wackestone + shale outcrops along
road cut trending E-W. lower
limestone bed at base of road has
a visible joint set with 2 dominant
orientations 010°-355°/88°W and
270°/55°S.

Hand Sample: STA 38 HS-23 - wackestone
fossiliferous

Joint Set Orientation - (2) STA 38

STRIKE dip

010°/88°W

010°/ similar

355°/ similar

270°/55°S

270°/ similar

STA 39 - Along County Road 301A

approx.
- Palmy & Glen Rose contact

N: 32.26288

N 097.76198

Elev: 793' ± 11.9 ft.

From Junction of CO 313 (?) - loop to
CO 301A - Palmy fm is

visible at the surface along
the road + within fields + yards.

STA 39 is the first occurrence of

Glen Rose at this location
along this road.

STA 40 - Along CO 313 (?)

- Approx. contact of Palmy +
Glen Rose.

N: 32.27636

N 097.76096

Elev: 806 ft ± 9.1 ft.

Fast bound on CO 313 we are at
the last visible location of
Palmy.

' East of STA 40 Glen Rose begins
to cut off along road + in which
of Palmy probably extends south + west
of CO 313 because the area is
being used for pasture + farming.
This is a typical land use in
areas where there is farming is
dominant present.

STA 40 - A - Glen Rose on better
sides of CO 313. Palmy has
pivoted out at this location
as the road (CO 313) continues
to drop in elevation to the
east. Also, farm + pasture
land use has not extended
this far east along CO 313

N 32.27712°

N 097.75945°

Elev: 797' ± 12.5 ft.

STA41 - Along Hwy 67 towards
Glen Rose.

Quarry Excavation

Large, extensive, exposure of
Glen Rose fm.

Turn to look behind washstones
+ shales. This outcrop
is classic Glen Rose.

N32.23315°

W097.77296°

elev. 657 ft, ± 10.9 ft.

Will Cat Post / Wildcat Post

Road - is there a landmark
from this area?

→ Check photos.

STA42-A

N32.30403°

W097.84562°

elev. 1001 ft, ± 17.8 ft.

Hand sample STA42-A HS-24 / HS-25

FMS1: East of Hill City

Palmy formation.

Palmy at this location consists

of thin to medium beds of

interbedded fine sandstones and

silt. Sandstones are predominantly

very fine to fine sand & range

from, non-slightly oxidized, poorly

consolidated sst. to highly oxidized,

mod-well cemented (iron cementation)

Sandstones are poorly

consolidated ~~beds~~ is. But to

gray in color fine highly

oxidized beds are yellow/orange

red.

At ~~Sta~~ STA42-A

the beds

are flat lying w/ no apparent

dip.

STA42-B

~300 yards East of STA42-A

Fms 6 East of Hill City

N: 32.30Z86

N: 097.84483

elev. 1002 ft ± 15.8 ft

Orientation @ STA42-B (Palmy Sand)

Bedding

	Strike	Dip
#1	215°	15°W
#2	235°	17°W
#3	213°	18°W
#4	187°	23°W
#5	185°	18°W

JOINTS

	Strike	Dip
#1	022°	88°E
#2	043°	67°E
#3	015°	64°E

Palmy beds at this location (STA42-B) are similar to the beds @ STA42-A. Beds are deformed - and ~~are~~

They are tilted up to the East w. 70° ~~to~~ ^{at} ~~eastward~~ dip of ~20°W.

- Calcite mineralized near vertical joint sets are prevalent throughout deformed beds. Most

mineralized joints are found in the ~~lower~~ ^{upper}

Shale ~~beds~~ ^{beds}, whereas the joint sets (with similar orientations)

within the lower sandstone beds

do not appear to be heavily

~~mineralized~~ ^{mineralized}.

6/2/07 - 5 mile Reson

STA 43 - Palmy + Walnut Creek contact (2)

N: 32.36804

W: 097.79338

Along Neri Road East of Comanche Peak (~1 mile).

At base of slope Palmy is visible within the minor road cuts (~2 ft high) + along the fence line. The Palmy is red-orange clayey sands at this location.

West of the contact the "Walnut Creek" limestone forms a local topographic high. Towards Comanche Peak, medium beds of limestone are outcropping at the surface primarily along the North side of Neri Road.

STA 44 - Palmy - Walnut Creek contact

N: 32.36609

W: 097.80082

elev. 1001 ± 10.8 ft.

Along Neri Road, Palmy fine is visible along the South side of Neri Road at base of small hill. Travers along Neri Road between STA 43 + STA 44 was comprised of the "Walnut Creek" formation.

Palmy begins to be exposed as surface at base of hill, appears at the location of a large live oak tree.

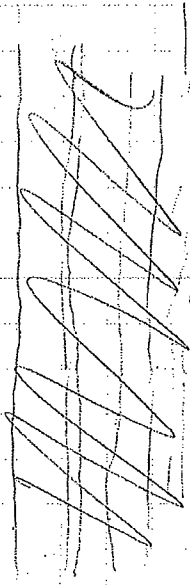
STA 47 - Square Creek Metamorphic
Excavation p. 7.

- Localized, apparent angular
conformity.

N: 32-33904

W: 097-83913

elev. 902 ft $\pm$ 11.0 ft.



Packstone (granite) to Wackestone
beds (thin to massive) appear to
be slightly tilted in a very localized
point of the excavation small flat,
planar bedding is visible to the SW +
NE of the feature (~ 20 ft on either side)
Granite with an overlayer by a
well stratified, thick bedded shale
dominated unit.

STA 45 - Palmy - Unmetamorphic Contact
~ 1/4 mile north of New Bed / Pack Bed into
section.

- Towards the base of slope.

Palmy Formation from STA 44 to STA 45.

- Begin the climb up the slope, visible
Palmy formation drops out. Prominent

Granite beds are outcropping at
the crest of the hill.

N: 32-36704

W: 097-80674

elev. 995 $\pm$ 7.6 ft.

as you travel North along Pack Road.

STA 46 - Square Creek Metamorphic
Excavation p. 7.

N: 32-33877

W: 097-84071

Large, extensive exposure of the Glen Rose formation.

- Thin to massive bedding, flat lying,
orange-yellow to gray, micritic to granular,
upper beds are granitic, small hash
layers (gastropods) are thick +
prevalent within the upper specific beds.

For Frank

BLOOM

N: 32.30299

W: 097.79346

elev. 834 $\pm$ 10.3 ft.

STA 48 - Glen Rose - Palmyra Contact.

N: 32.34781°

W: 097.80870°

elev. 889 $\pm$ 11.5 ft.

Along Cripple Creek Road. (to turn NW-SE).

- Glen Rose found along side of road near SE end of pond.

STA 49

- Palmyra - Walnut Creek (1) dimension

N: 32.35100°

W: 097.78347°

elev. 914 $\pm$ 13.3 ft.

Again typical Palmyra/Walnut Creek morphology.

- Palmyra forms relatively flat, gently sloped landscape used as pasture & hay fields.

- Walnut Creek is forming a knick at 1014 ft, appears on trend of Comanche Peak, which rises above the surrounding Palmyra.

Square Creek Park

① near gate before sports house Palmyra is following a trend down at the surface of the cleared area.

26

6/23/07

Orientation of Beds + Joints STA 36

Lower Bed Dip + Dip direction

- #1 005°/028°
#2 005°/025°
#3 005°/030°

Bedding

Thick Wackestone bed

Bedding Dip + Dip direction

- #1 003°/045°
#2 003°/022°
#3 006°/028°
#4

Strike/Dip

- Joints Thick bed
330°/89°W 006°/810°
340°/90° 110°/90°
060°/90°
038°/063°W
010°/080E

3rd bed from bottom (wackestone)

Bedding Dip + Dip dir

- #1 011°/022°
#2 006°/040°
#3 004°/028°
#4 009°/025°
#5 014°/020°

Joints

- ~~042°/028°~~ orientation by
018°/028°

27

3rd bed Continued

Bedding Dip + Dip Dir

- #6 010°/025°
#7 009°/030°
#8 002°/050°

Top Bed (5th) wackestone

Joints Strike + Dips

- 020°/890°
035°/890°

Lineament locations to check on

Around the Plant. Identified by the assigned Lineament ID and assigned by K. Whaley.

FID Coordinates

101	2,193,914.250 ; 6,792,134.704 ft.
102	2,193,741.714 ; 6,791,689.634 ft.
120	2,190,507.533 ; 6,792,030.855 ft.
68/69	2,183,606.039 ; 6,790,196.472 ft. (on unnamed road)
79 (nearest road)	2,189,572.873 ; 6,783,965.532 ft. (on unnamed road)
85	2,189,311.723 ; 6,782,598.540 ft. (on unnamed street)
86 (E)	2,182,516.946 ; 6,780,914.446 ft. (on unnamed street)
86 (W)	2,181,442.317 ; 6,779,983.083 ft. (on unnamed street)
87	2,182,015.463 ; 6,779,171.126 ft.
110	2,187,570.378 ; 6,778,232.058 ft. (CR 321)
112	2,189,768.148 ; 6,778,038.573 ft. (on unnamed road)
117 (N)	2,193,722.586 ; 6,780,205.408 ft. (on unnamed road)
117 (S)	2,194,782.778 ; 6,779,083.307 ft. (on unnamed road)
90	2,187,007.801 ; 6,800,726.007 ft. (across creek)
66	2,190,971.098 ; 6,803,444.289 ft. (end of CR 213 - driveway)

FID Coords

91	2,190,908.848 ; 6,798,733.984 ft. (drive way)
150	2,167,183.535 ; 6,811,557.636 ft. (FM 51)
172	2,166,353.525 ; 6,801,260.326 ft. (FM 56)
173	2,164,952.884 ; 6,802,998.159 ft. (FM 57)
133	2,161,932.176 ; 6,823,649.817 ft. (CR 203B)
133	2,162,239.221 ; 6,830,486.669 ft. (on unnamed road)
133	2,161,932.176 ; 6,826,556.502 ft. (on unnamed driveway)
125	2,156,051.639 ; 6,828,315.610 ft. (CR 377)
70	2,186,216.441 ; 6,790,291.850 ft.
106	2,196,632.485 ; 6,788,400.833 ft.
107	2,195,976.729 ; 6,787,287.573 ft.
100	2,199,254.079 ; 6,790,145.068 ft.
114	2,193,201.680 ; 6,780,804.358 ft. (on unnamed off CR 313)

8/30/07

Lineament Recon
RC, RD, SB, + WH

STA057: Lineament 101 + 102
→ tip of CPSES Peninsula

N: 32.29696°
W: 097.77021°

101 (LC) → @ Shoreline. Limestone on top.
102 (Veg) → surface has been modified.
no evidence of lineament.

101: Located along shoreline. Lineament
101 appears to be a straight section
of limestone outcrop. Possibly
an old channel margin in
Sediment over prior to incision.

102 - line of trees along edge of
modified area at top of slope.
Small drainage w/ steep young
vegetation appears to have formed
a furrow modification of surface.

Lineament 120: connected over +
buildings on top.
completely disturbed surface

#68 - on residential street, surrounded
by private property.

#68, 69, + 71 are all associated with
an ancient stream channel on them.
The glacial till formation. Erosion
bedrock in the same place not
apparent to be exposed.

#70 Outcrop controlled lineament
along edge of valley margin.

#79 + #85 - on private property. No access

#100: ^{old} vegetation ^{lineament}, in ~~1949~~ photos, which crossed perpendicular to # a ridge. at location where #100 crosses small dirt road there is an old bank wire fence trending in the approx. direction of #100.

This ~~may~~ fence line (or earlier versions of) may be the cause of the V.L. #100.

#106 + #107

break in slope along valley margin, probably formed by the creek + controlled by bed rock. Creek in Stereo rock exposed as orthogneiss + lineament is underlain + flat lying (Glen Rose fm).

STA 058: Glen Rose / Boundary Contact

N: 32.28577°

W: 097.71339°

Qt: this surface is higher than the just west of the ridge (closer to the river) -

1470 - Punch Code for gate to Squaw Creek Park.
Closos @ 3pm.

#91 - total lineament

light color change across the landscape in photos. Area now is heavily vegetated + in section of ground surface does not indicate and significant features. #91 does correspond with a hill slope.

#91. Upstream from parked car a fence line road follows the approximate trend of the #91 road lineament. Therefore #91 is probably a cut-throat fence.

#90. See "Straight" Shoreline Segment

(a) Squaw Creek Reservoir, Glen

Rock. 1/2 mi. outcrops @ surface of

the lake. There is a

subtle slope break ~ 100 yards

from the lake surface but

this break appears to be misaligned

with the original stream.

No road access to #90. All

observations are from across lake

at ~~base~~ Squaw Creek Park

offices. Area is heavily vegetated and overgrown.

#66 - vegetation lineament, located at grass guard track for Squaw Creek Park.

This area has been slightly disturbed and built upon.

but the overgrowth of trees

around the perimeter have

obscured the 1949 monument.

~~But because of a~~

~~is located near the top~~

~~of the~~

This area is the local

high point and has been

used extensively for agricultural

purposes; therefore ~~#66~~

#66 is interpreted as

the contact between Glen Ridge

and Palmyra.

#150 - old gravel bedrock
 exposed to monument.
 monument is along the
 a stream channel.

#133 - South
 → Shallow Swale, which
 runs from the field to
 the north. No visible surface
 expression except for the swale
 from the field. Shallow
 rise w/in field w/ trees N of
 field.

#125 - rise in ground surface @
 this point. Appears to extend
 along with side of road
 - Check in Stereo.

#133 North: ~~Ground~~ B
 in the general area of 133-N
 there is a ~~topographic~~
 high point of Palmyra from
 outcropping @ the surface.
 - Check in Stereo.

2

Location		Date	
Project / Client			
Kgrm	Kgrm	Kgrm	Kgrm
Kpr	Kpr	Kpr	Kpr
Kw	Kw	Kw	Kw
Kk1	Kk1	Kk1	Kk1
Ked	Ked	Ked	Ked
Kcp	Kcp	Kcp	Kcp
Kna	Kna	Kna	Kna
Kpa	Kpa	Kpa	Kpa
Kgr	Kgr	Kgr	Kgr
Ktm	Ktm	Ktm	Ktm
Pme	Pme	Pme	Pme
Fredericksburg g.p.	Fredericksburg g.p.	Fredericksburg g.p.	Fredericksburg g.p.
Washita	Washita	Washita	Washita
Edwards	Edwards	Edwards	Edwards
Comanche Peak limestone	Comanche Peak limestone	Comanche Peak limestone	Comanche Peak limestone
Walnut	Walnut	Walnut	Walnut
Poluxy	Poluxy	Poluxy	Poluxy
glen Rose	glen Rose	glen Rose	glen Rose
Twin Mountains - Texas Peak	Twin Mountains - Texas Peak	Twin Mountains - Texas Peak	Twin Mountains - Texas Peak
Mineral Wells	Mineral Wells	Mineral Wells	Mineral Wells

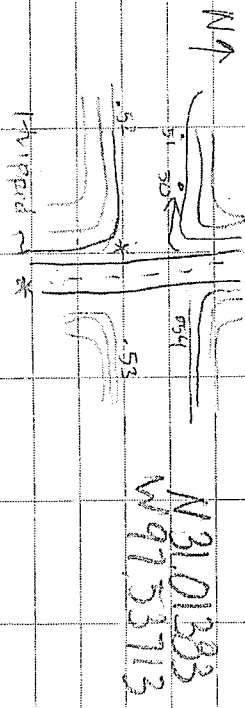
3

Location	Comanche Peak, TX	Date	
Project / Client			
Tuesday Aug. 28, 2007			
Scale			
met to figure out what roads ahead get. map (25 miles) also straightened labels on get. map R (west) & are heading to see - Twin Mountains - folding in Edwards limestone - fragments NW of site Headed out 10:30 AM. decided to drive past section 1000 ft. 220 to 500 ft. we could catch Twin Mountains, and no luck. The rest of morning in the field and too far from road & seen to not be in Twin Mnt. we will consult with about 1:30 PM. we will head NW & visit same the mts. we were heading towards have the Twin Mountains anyway. we turned around to head back to 220's near the turn for Dallas Finally reached Stillhouse Hollow lake (11:30 AM) drive past where stopped (at 10:00 AM) and left for visit spill & excavate.			

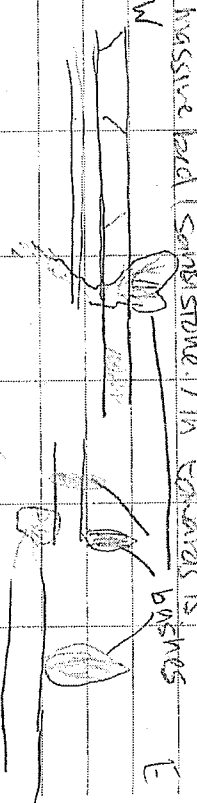
4

Location _____ Date _____
 Project / Client _____

STOP 50 NW wall of Spillway ~ 5 miles
 S. of Stillhouse Hollow Dam



Took photos of offset of a 1 1/2' 2 ft thick
 massive bed (some stone?) in Edwards ls



Took 4 photos 111-114 ↑

115 Randomly mixed soils head
 was in 1 ft below massive bed

Stop 51 50 m W of **50** 10116-119

Plate 6D of E Nelson's paper
 massive bed is offset
 'Tring fault' → a joint? that has been

5

Location _____ Date _____
 Project / Client _____

Catch field. W

6m W of **Stop 51**

10120-122

STOP 52 N31.01031
 W97.54099 big voids/caves

Walked to S. side of excavation spillway
 along path.

Again our massive bed is disrupted

10123-124

near 2nd gravel pit

discontinuity **10125-1126**

1m pointing at where car sitting

Acromphid surface = still there? 1st read

10123 N31.00941 E 51.6 of E 10128
 W97.50160 E 04.52

Scale

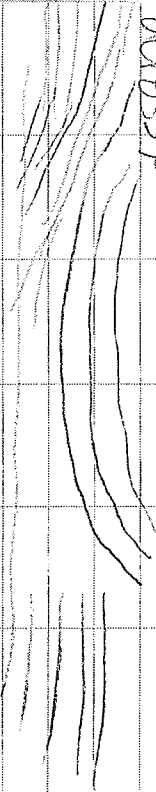
6

Location _____ Date _____
Project / Client _____

11 tripped over the outcrops here

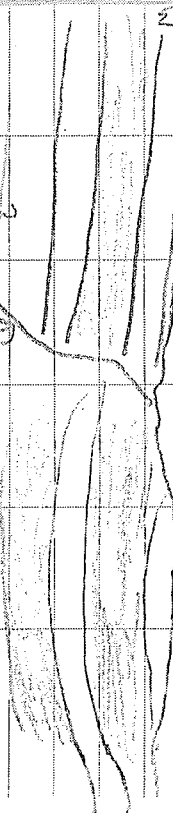
10 127

Big Symmetrical syncline (10m across)



Stop 341 N31.01376
W97.53475

E



W side up?

Zone of creep 10 128-129

Major consistent in other NW walls 130

features, but generally

probably a localized process (large to thin bi-deposition)

Location TXM-CP S. of site WE 12.
Date Aug 29, 2007
Project / Client _____

Scale

Stop 350 Livament 60 at the end of

country road 325. There is a "livament" creek to the west of the road, but not there is a small pond.

N32.29277
W97.80470

Actually, we located on doing alternative plot 350 still on road

Stop 350 350m west to Mineral Wells, TX, Min. Wells fm is immediately below the Tumb, basic

N 32.80960 W 97.80960

W 97.80960

W 97.80960 to do of East Mineral (just

ENE of the intersection of highway

150 & 1281 a west course sandstone is exposed. The entire unit is brown, grey

green. Blue grey mudstone in some parts.

but still stone sandstones. Some mudstone

midstone above that. In road wall layers

at very top. Fuckin' sandy fossiliferous

rock

8

Location _____ Date _____

Project / Client _____

STOP 57 14 km 10/1/02

inner ~~step~~ outcrop vegetation

around lakes edge

maybe an old stream channel in bedrock

120 is completely covered over.

9

Location _____ Date _____

Project / Client _____

Scale _____

Location _____ Date _____
 Project / Client _____

Location Nequike TX Date Oct. 12, 2007
 Project / Client Ulinant - TXIA Comanche Peak

Scale _____

Checking out Mt. Enterprise Elkhead
 Grabbed from air @ Mesquite Airport.
 Flying w/ Josh of Mesquite Aviation.

Sunny, clear, & in 60s-70s.

Taking off at 7:55am to the S.

Turned to SE in 150° heading.

Pilot asked about altitude of previous charts

Responded w/ ~1000 ft.

Presented Jeff Ulrich

Chris Fuller

Stephanie Briggs

There were lots of allos around here

At 8:10 AM we were approaching the Cedar

Wick reservoir (GPS said near town of

Savoy TX).

Lost by the Richard (unclear) before we

to West.

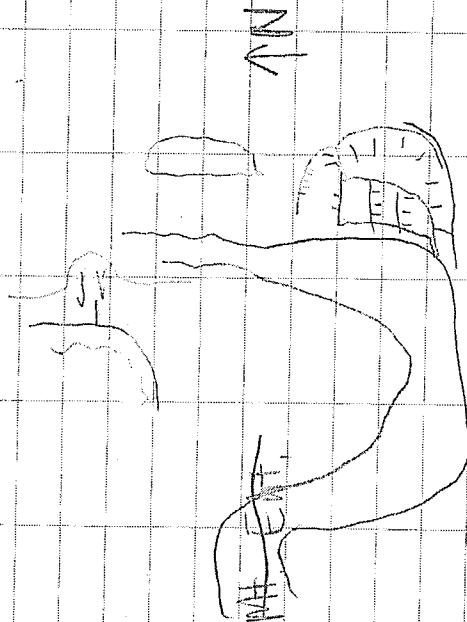
gunna till w/ 1 hr to go to where we were going.

Location _____ Date _____
 Project / Client _____
 10/12/07

Tucker Deckerman Silverado Farm
 on S. side of Trinity River

found small fault of 6cm offset
 strikes EW

E of that fault maybe small
 further S. same and same



We saw 2-3 small EW trending
 down to N or S. offset of between 6cm +
 2 feet.

Stepping back, we saw offset an
 clearly located in the center

Location _____ Date _____
 Project / Client _____

Scale _____

portion of a large down to the river.
 landside. There is a semi-circular
 scar pit with a height of 25 - 30 meters.

Now, down to Pat's hole, Anderson
 Co. N of River.

Walking along river towards
 bridge

We reach the spot directly across from
 the landside over on the S. side of the river.
 Here, there is a rock outcrop, just right of
 deposited sand. This side of the river is
 composed of channels & filled up & had carried
 tons & tons. Perhaps this is related to
 recent floods from July + August of this year.

At the bank, sandy deposits & a snake.
 As we head N, we observed a few
 from abandoned meanders of the river.

Part 2 of those, there is a completely
 undisturbed surface of sand. No evidence
 of any finger marks that tell us cities

As the production of a sand of this
 kind - which is such as sand and clay (clay).

Project / Client TXIA - Comanche Peak

Project / Client TXU - Comanche Peak

Admiral Danton Exc.

flying w/ bandy of variable direction

Sunny $T \sim 65^\circ$ + clear

Start of engine @ 9:30 AM

try plane, ~~close~~ back panel of plane.
Slipped again when I got inside plane.

My head set doesn't work.

THE UNIVERSITY OF CHICAGO

NW Foundation of
China

7/20/94
O/S

Vegetation color change 3 and 4th Sept
near Wickham Creek



11-10 @ Polex Bros. Quarry
 All in ~~beach~~ net is above us to the
 back of the Quarry (NW of quarry)

Keith's 2nd and crushing SE along ~~SE~~ SCV D
 ridge towards duckmark 1 m. O
 which is near the top and blocking
 view of N.O. a. point.

The same day lots of birds were
along - but no aluminum, in
the small, tiny packages which
crossed the water didn't get there
quick

East 3) and West 3) are

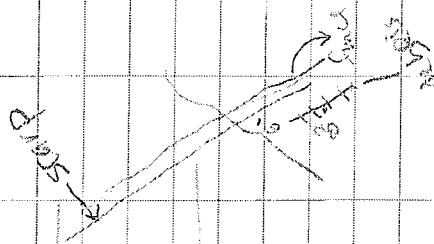
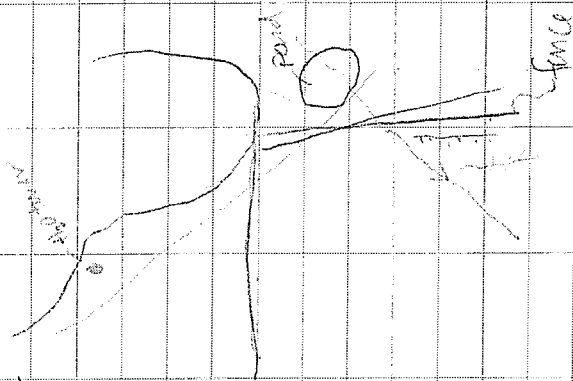
a mainlobe lobe of debris 11 to the sun

In drawing no evidence of
 in situ material, probably all material
 is material filled by new material
 To get to 3 we need to go around road
 and back to the creek
 going up stairs / creek / road / turning

Location _____ Date _____

Project / Client _____

Debris lobe (man made) is ~1 meter high.



Location _____ Date _____

Project / Client _____

Scale

100 - 110 OK km

At (b) we saw an exposure of moderately well developed soil $\Rightarrow$ secondary clay accumulation, a BT horizon, reworking stage 2 soil secondary carbonate accumulation

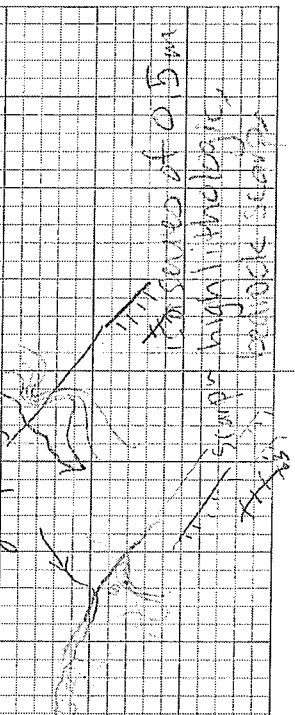
A horizon is 0.5 m thick

BT is 540 cm thick

Soil structure - coarse to medium angular - blocky

The exposure may be related to recent flooding and the man grading.

Expos. is 7-10 m long & extends essentially obliquely across the likely projection of the bar P.



Location _____ Date _____

Project / Client _____

Note Keith's spots 4 & 5 were
2 points along base of bedrock
scarp

We will now go to 7th mark another
waypoint SW N. of two creek
syndes 4, 5 & 7 will give us a
strange of the exposure of the
fault scarp.

Marking spot 8 @ 1:19 pm.
Hick Creek bridge

⑨ Small dirt road off plainview
Rd.
Turned around @ NS Rd.

Weather - A little cloudy for a cast of
color.

Location _____ Date Oct. 14, 2007Project / Client TXU-CP

Cruiser fault field study

Scale _____

Drove S. on Brook + E. on

Fox Den Brook in 1/2 mile
(past, NE of the fault)

Then walked on foot W. towards
past again.

Car @ waypoint 4

Car @ waypoint 5

Car @ waypoint 6

Car @ waypoint 7

Car @ waypoint 8

Car @ waypoint 9

Car @ waypoint 10

Car @ waypoint 11

Car @ waypoint 12

Car @ waypoint 13

Car @ waypoint 14

Car @ waypoint 15

Car @ waypoint 16

Car @ waypoint 17

Car @ waypoint 18

Car @ waypoint 19

Car @ waypoint 20

Car @ waypoint 21

Car @ waypoint 22

Car @ waypoint 23

Car @ waypoint 24

Car @ waypoint 25

Car @ waypoint 26

Car @ waypoint 27

Location _____ Date _____

Project / Client _____

Continued E on road till it turned

N.

Stopped to look at an contact

(Dakota unconformity)

walked up a power line access road.

(Sentry)

Keith waypointed as 12.

We are noting that there is a

reasonable break in slope here, where

gentle than the the scarp slope

but bedding orientation is different

than next to the main scarp.

perhaps this indicates that perhaps

lithologically - controlled topography

rather than fault - controlled

Turned around, went back to S on

back then turned E on Buckskin

to head toward the fault.

The we stopped near the 11th contact

Location _____ Date _____

Project / Client _____

Scale _____

(a limestone) which shows up as a

scarp - parallel with steep slope

lineament just SW of the scarp

stop 13 - along road - see water

at this time. There is a top scarp

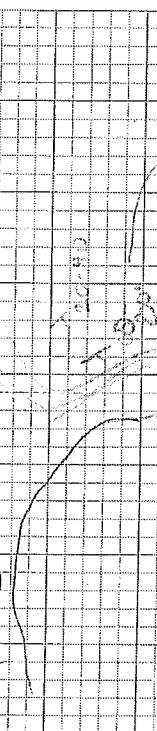
along this feature, also back to SW

stop 14

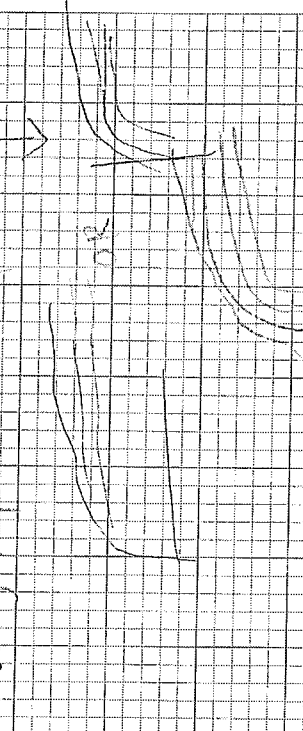
drainage cuts scarp right along

line in road (Buckskin - continuation)

spot 11

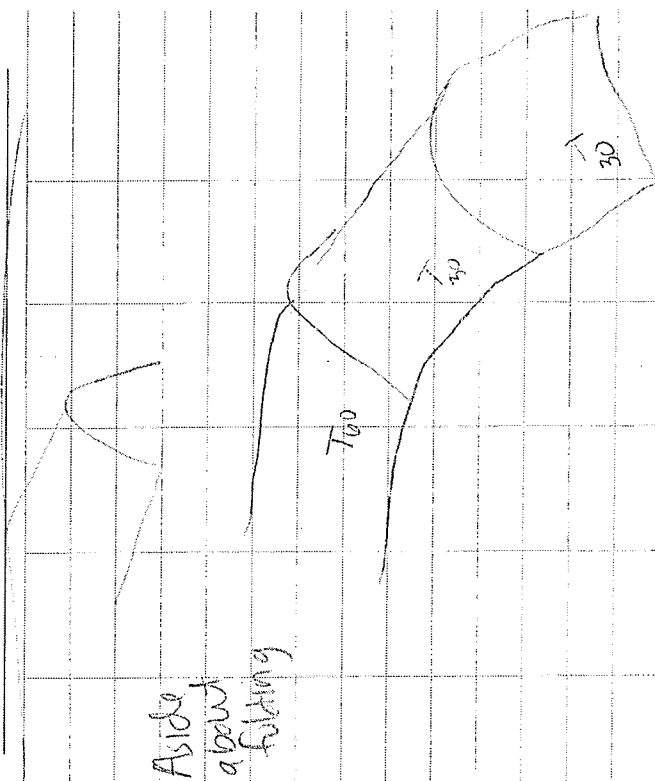


bedding steepens the scarp



Location _____ Date _____

Project / Client _____



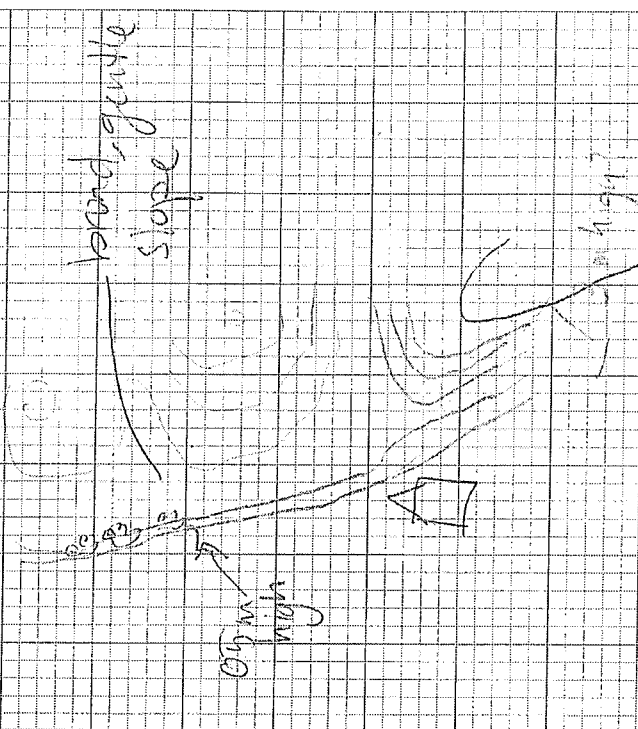
Anyway stop 14 we have a bit of alluvium @ the base of the scarp

We also observe a pretty broad terrace drainage that cuts the scarp ridge. This is filled w/ young alluvium

Location _____ Date _____

Project / Client _____

Stopped @ Juan Jose's house which is just south of the scarp - 15-20 meters. We walked NW along the scarp, noticed some topography change. Scarp is a nice cut, red. It's a bit of a scarp. Barren at 0.5-1m high scarp. Vegetation is better developed along the



Location _____ Date _____
 Project / Client _____

Atk@ Lodge (0.5 m high) continues
 It develops a small trench adjacent to it
 + that trench ditch deepens to
 ~1 m deep ^{to the north} appears to be man made.
 We can't enter an old road bed.

Continued walking N+ E up the hill
 turned the landscape to the west.
 You can't see any geological expression.

Ended up being done till 12:15

Kath had some ideas about the
 the ^{subsoil} going along a water/larger vegetation
 boundary

After lunch we went to the Bean's
 + talked to Cheryl.

She agreed to drive us down to the creek
 on New property in a Ranger - this
 4WD 4 wheel drive thing - 8 m in pickup,
 ~ 2:10 pm

Location _____ Date _____
 Project / Client _____

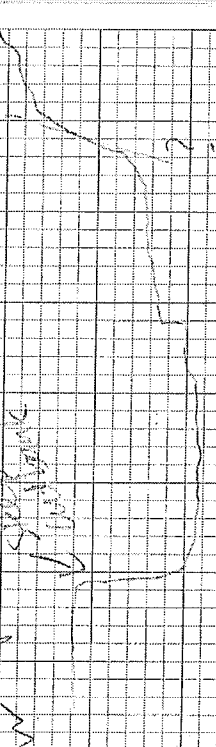
Scale _____

We drove with to the creek over a big
 hill

Saw a wild pig - injured

Walked up the creek a few ways
 + didn't see much more

On the E. bank there seems to
 be a shallow bank where a
 Sheep are
 grazing

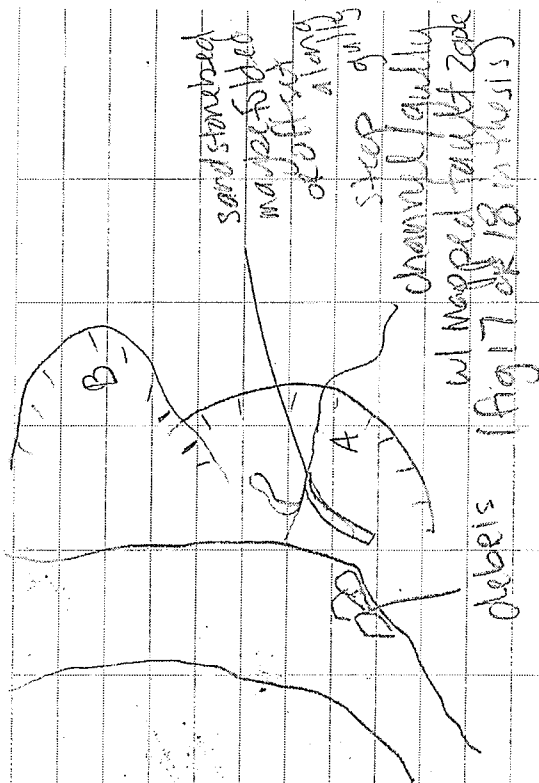


W side of creek is a steep
 cut bank 3-6 m high. In seeds.
 Flood deposits + seeds are well sorted
 + thick

Just S of that is a bank filled
 w/ large debris washed from
 upstream (1.25 - 2 m blocks)

Location _____ Date _____

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Climbing over the gully, I offered bed exposure, you didn't effectively enter a landslide block with a prominent crown headscarp sum parallel to the creek bed / banks. (A) 2m ^{10/11/10} high
The scarp is 0.5 - 1.5m high
+ C. Fuller got waypoints at the N+ S. terminus

The N. terminus seems to be a landslide block further N. (b)

Location _____ Date _____

Project / Client _____

Scale _____

