

Attention Owner:
Confidentiality Privilege Notice
on reverse side of owner's copy.

Texas Department of License and Regulation
Water Well Driller/Pump Installer Program
P.O. Box 12157 Austin, Texas 78711 (512)463-7880 FAX (512)463-8616
Toll free (800)803-9202

This form must be completed
and filed with the department
and owner within 60 days
upon completion of the well.

B685

Email address: water.well@license.state.tx.us

WELL REPORT

A. WELL IDENTIFICATION AND LOCATION DATA																																					
1) OWNER																																					
Name	Address	City	State	Zip																																	
Barton farm	Rt1 Box 250	Hearne	TX	77859																																	
2) WELL LOCATION																																					
County	Physical Address	City	State	Zip																																	
Robertson	FM 1644	Hearne	TX	77859																																	
3) Type of Work																																					
<input checked="" type="checkbox"/> New Well <input type="checkbox"/> Reconditioning <input type="checkbox"/> Replacement <input type="checkbox"/> Deepening																																					
4) Proposed Use (check)																																					
<input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell <input type="checkbox"/> Rig Supply If Public Supply well, were plans submitted? <input type="checkbox"/> Yes <input type="checkbox"/> No																																					
5) Grid # 59-03-8 NT																																					
6) Drilling Date																																					
Started <u>07/01/01</u>																																					
Completed <u>07/06/01</u>																																					
7) Drilling Method (check)																																					
<input type="checkbox"/> Air Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jined <input checked="" type="checkbox"/> Other <u>Rev. Circulation</u>																																					
8) Borehole Completion <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall																																					
<input type="checkbox"/> Under-reamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other If Gravel Packed give the interval from <u>40</u> ft. to <u>620</u> ft.																																					
<table border="1"> <thead> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New Or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf. Slotted, etc. Screen Mfg. if commercial</th> <th colspan="2">Setting (ft)</th> <th rowspan="2">Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>N</td> <td>Steel</td> <td>42</td> <td>55</td> <td></td> </tr> <tr> <td>16</td> <td>N</td> <td>Steel</td> <td>72</td> <td>400'</td> <td></td> </tr> <tr> <td>10</td> <td>N</td> <td>Steel</td> <td>400</td> <td>520</td> <td></td> </tr> <tr> <td>10</td> <td>N</td> <td>PIPE CASE SS. Sew</td> <td>520</td> <td>560</td> <td>.032</td> </tr> </tbody> </table>						Dia. (in.)	New Or Used	Steel, Plastic, etc. Perf. Slotted, etc. Screen Mfg. if commercial	Setting (ft)		Casing Screen	From	To	30	N	Steel	42	55		16	N	Steel	72	400'		10	N	Steel	400	520		10	N	PIPE CASE SS. Sew	520	560	.032
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Cementing by <u>Rien Water Wells</u>																																					
Distance to septic system field or other concentrated contamination <u>0</u> ft.																																					
Method of verification of above distance <u>stopped</u>																																					
10) Surface Completion																																					
<input type="checkbox"/> Specified Surface Slab Installed <input type="checkbox"/> Specified Surface Sleeve Installed <input type="checkbox"/> Pile Adapter Used <input checked="" type="checkbox"/> Approved Alternative Procedure Used																																					
11) Water Level																																					
Static level <u>47</u> ft. below Date <u>7/06/01</u>																																					
Artesian Flow _____ gpm. Date _____																																					
12) Packers																																					
Type _____ Depth _____																																					
N/A																																					
13) Plugged <input type="checkbox"/> Well plugged within 48 hours																																					
Casing left in well: _____ Cement/Perlite placed in well: _____																																					
From (ft)	To (ft)	From (ft)	To (ft)	Sacks used																																	
N/A																																					
14) Type Pump																																					
<input checked="" type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other _____																																					
Depth to pump bowls, cylinders, jet etc. <u>200</u> ft.																																					
15) Water Test																																					
Type test <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Boiler <input type="checkbox"/> Jetted <input type="checkbox"/> Ball-valved																																					
Yield: <u>260</u> gpm with <u>136</u> ft. drawdown after <u>6</u> hrs.																																					
16) Water Quality																																					
Did you knowingly penetrate a strata which contain undesirable constituents.																																					
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If yes, did you submit a REPORT OF UNDESIRABLE WATER																																					
Type of water _____ Depth of Strata _____																																					
Was a chemical analysis made <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
Company or individual's Name (type or print)			Lic. No.																																		
Brien Water Wells			01564 W																																		
Address		City	State	Zip																																	
Rt1 Box 702		Hearne	TX																																		
Signature <u>[Signature]</u>		Date <u>07/28/01</u>	Signature <u>[Signature]</u>		Date <u>8/28/01</u>																																
Licensed Driller/Pump Installer		Date	Apprentice		Date																																

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6) Drilling Date																																																																																															
Started 05/01/01		Diameter of Hole		7) Drilling Method (check)																																																																																											
Completed 08/25/01		Dia. (in.) From (ft) To (ft)		<input type="checkbox"/> Driven <input type="checkbox"/> Air Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input checked="" type="checkbox"/> Other Rev. Circulation																																																																																											
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Signature [Signature]		Date 08/28/01		Signature [Signature]																																																																																											
Licensed Driller/Pump Installer		Date		Date																																																																																											

6115

WELL REPORT

A. WELL IDENTIFICATION AND LOCATION DATA

OWNER
 Name: Cliff Skiles Address: 1506 W. Park Ave City: Hereford State: TX Zip: 79045

B. WELL LOCATION
 County: Robertson Physical Address: Goodland Farm City: Hearne State: TX Zip: 77851

C. Type of Work
 New Well Reconditioning Replacement Deepening

4) Proposed Use (check) Domestic Irrigation Industrial Public Supply Discharge Test Well Mine Supply Other: NT

5) Drilling Date
 Started: 08/14/01 Completed: 10/05/01

6) Diameter of Hole

Dia. (in)	From (ft)	To (ft)
34"	0	68
24"	68	1054

7) Drilling Method (check) Driven Air Rotary Mud Rotary Core Air Hammer Cable Tool Jetted Other: REVERSE CIRCULATION

8) Borehole Completion Open Hole Straight Wall Under-reamed Gravel Packed Gravel Filled

9) Casing Data

Depth (ft)	New Or Used	Steel, Plastic, etc. Part, Size, etc.	Screen (ft) From To	Casing Screen
0-68	N	Steel (PEB)	0-68	
68-278	N	Steel (PEB)	2-281	
278-285	N	Steel (T&C)	281-944	
285-306	N	SS screen (Pipe)	944-1054	032

10) Cementing Data
 Cementing from 0 ft to 10 ft. Perforations 12 ft. to 287 ft. of casing and 50 ft. of screen.

11) Method Used GROUT & PRESSURE
 Cementing By CLEAN WATER WELLS
 Distance to public water body or other concentrated water source N/A
 Method of verification of above distance N/A

12) Plugged Well plugged within 48 hours Casing left in well. Cement/Grout placed in well.

From (ft)	To (ft)	From (ft)	To (ft)	Sacks used
				N/A

13) Type Pump
 Turbine Submersible Cylinder Other: N/A

14) Water Test
 Type of Pump Bailor Jetted Estimated
 Yield: 225 gpm with 33 ft. drawdown after 1 hr.

15) Water Quality
 Did you knowingly produce a stream which contains undesirable constituents?
 YES NO If yes, did you submit a REPORT OF UNDESIRABLE WATER
 Type of water: _____ Depth of Strata: _____
 Was a chemical analysis made Yes No

11) Water Level
 Static level 58 ft. below Date 8/27/01
 Artesian Flow _____ gpm. Date _____

12) Packers

Type	Depth
N/A	

Company or Individual's Name (type or print) Brien Water Wells Lic. No. 01564 W

Address RT 1 Box 702 City Hearne State TX Zip 77851

Driller [Signature] Date 10/05/01 **Signature** [Signature] Date 10/15/01

**IMPORTANT NOTICE FOR PERSONS
HAVING WELLS DRILLED CONCERNING
CONFIDENTIALITY**

G115

Section 32.005 of the Texas Water Code, concerning confidentiality information in the reporting of Well Reports, reads as follows:

Every licensed driller drilling, deepening, or otherwise altering a water well in this state shall make and keep a legible and accurate well log in accordance with departmental rule or forms prescribed by the department. Not later than the 60th day after the completion or cessation of drilling, deepening, or otherwise altering the well, the licensed driller shall deliver or transmit by certified mail a copy of the well log to the department, the Texas Natural Resource Conservation Commission, and the owner of the well or the person for whom the well was drilled. The well log shall be recorded at the time of drilling and must show the depth, thickness, and character of the strata penetrated, the location of water-bearing strata, the depth, size, and character of casing installed, and any other information required by departmental rule. The department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner or the person for whom the well was drilled.

The last sentence specifies the means whereby you may, if you wish, assure that logs of your wells will be kept confidential.

From (ft)	To (ft)	Description and color of formation material
347	402	sand
402	410	Coal & Rocks
410	490	Shale & Rocks
490	520	Sand (B)
520	708	Shale
708	717	Sand (B)
717	900	Shale, streaks of Coal-Rocks
900	940	Sand (broken) coal streaks
940	979	Sand
979	1010	Sand & clay
1010	1038	sand, streaks of Coal
1038	1054	sand, streaks of Coal, Rocks

By Big Brazos K.

Well Owner's Confidentiality Privilege Notice on reverse side of owner's copy.

Texas Department of License and Regulation Water Well Drilling/Pump Installer Program P.O. Box 12187 Austin, Texas 78711 (512)463-7000 FAX (512)463-2018 Toll free (800)903-9202

This form must be completed and filed with the department and owner within 60 days upon completion of the well.

#675

Email address: water.well@license.state.tx.us

WELL REPORT

A. WELL IDENTIFICATION AND LOCATION DATA

1) OWNER
 Name: Dr. Cliff Skiles Address: Rt.1 Box 250 City: Hearne State: TX Zip: 77859

2) WELL LOCATION
 County: Robertson Physical Address: Goodland Farm #4 City: Hearne State: TX Zip: 77859

3) Type of Work
 New Well Reconditioning Replacement Deepening

4) Proposed Use (check)
 Monitor Environmental Soil Boring Domestic Industrial Irrigation Injection Public Supply De-watering Testwell Rig Supply If Public Supply well, were plans submitted? Yes No

5) Grid# 59-11-2 **NT**

6) Drilling Date
 Started: 11/24/03 Completed: 12/18/03

7) Drilling Method (check)
 Air Rotary Mud Rotary Bored Air Hammer Cable Tool Jetted Reverse Circulation

8) Borehole Completion
 Open Hole Straight Wall Under-reamed Gravel Packed Other If Gravel Packed give the interval from 840 ft to 1095 ft

From (ft)	To (ft)	Description and color of formation material	Casing	Pipe	Well Screen	Screen Data
0	68	Clay, Sand, Gravel				
68	120	shale				
120	133	Sand				
133	203	Shale & Coal Seams				
203	243	Sand				
243	401	Shale/ Rocks & Coal Seams				
401	480	sand				
480	640	Shale - Sand Streaks				
640	710	Shale - S - Shale				
710	719	Tight Shale				

9) Cementing Data
 Cementing from 790 ft to 840 ft # of sacks used 50
 Cementing by Brien Water Wells
 Method of verification of above distance na

10) Surface Completion
 Specified Surface Sibs Installed Specified Surface Sloops Installed Piless Adaptor Used Approved Alternative Procedure Used

11) Water Level
 Static level 62 ft. below Date 12/15/06
 Artesian Flow _____ gpm. Date _____

12) Packers
 Type: _____ Depth: _____

13) Plugged
 Well plugged within 48 hours
 Casing left in well: _____ Cement/Bentonite plugged in well: _____

14) Type Pump
 Turbine Jet Submersible Cylinder Other: N/A
 Depth to pump bowls, cylinder, jet etc. _____ ft.

15) Water Test
 Type test Pump Bailor Jetted Estimated
 Yield: 650 gpm with 43 ft. drawdown after 2 hrs.

16) Water Quality
 Did you knowingly pack into a strata which contain undesirable constituents?
 YES NO If yes, did you submit a REPORT OF UNDESIRABLE WATER
 Type of water: _____ Depth of Strata: _____
 Was a chemical analysis made Yes No

Company or individual's Name (type or print) Brien Water Wells **Lic. No.** 2854 WP
Address 5214 South Hwy 6 **City** Hearne **State** Tx **Zip** 77859
Signature [Signature] **Date** 12/16/06 **Signature** [Signature] **Date** 12/16/06

To Traps Farm

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H 345

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1) OWNER
Name: **Dr. Cliff Skiles** Address: **Rt. 1 Box 250** City: **Hearne** State: **TX** Zip: **77859**

2) WELL LOCATION
County: **Robertson** Physical Address: **FM 1644** City: **Hearne** State: **TX** Zip: **77859**

3) Type of Work
 New Well Reconditioning Replacement Deepening

4) Proposed Use (check) Monitor Environmental Soil Doring Domestic Irrigation Injection Public Supply Downwatering Testwell Rig Supply (If Public Supply well, were plans submitted? Yes No)

5) **NT**

6) Drilling Date
Started: **11/24/03** Completed: **01/23/04**

7) Drilling Method (check) Driven Air Rotary Mud Rotary Bored Air Hammer Cable Tool Jetted Other **Reverse Circu.**

From (ft)	To (ft)	Description and color of formation material	Dia. (in)	New Or Used	Steel, Plastic, etc. Perf. Slotted, etc. Screen Mfg. If commercial	Setting (ft) From To	Casing Screen
0	18	Clay					
18	22	Sand & Gravel					
22	55	Gravel					
55	80	Clay					
80	110	Sand	36	N	Steel	+1 -60	
110	117	Rock	24	N	Steel	+2 -880	
117	210	Shale, S-Shale		N	P.B.S.S. Scr	880-930	032
210	222	Shale					
222	338	S-Shale & Sand, Coal Seams					
338	448	Shale, S-Shale					

8) Borehole Completion Open Hole Straight Wall Under-reamed Gravel Packed Other

If Gravel Packed give the interval from **725** ft to **930** ft.

9) Cementing Data **+1 - 13** 10 yds
Cementing from **42** ft to **55** ft. # of sacks used **35**
685 ft. to **725** ft. # of sacks used **50**

Method Used **Tremie**
Cementing By **Brien Water Wells**
Distance to septic system field or other concentrated contamination **N/A**
Method of verification of above distance **NA**

13) Plugged Well plugged within 48 hours
Casing left in well: Current/Remnant placed in well:
From (ft) To (ft) From (ft) To (ft) Sacks Used

NA

14) Type Pump Turbine Jet Submersible Cylinder Other **NA**
Depth to pump below cylinder, jet etc. **ft.**

15) Water Test
Type test Pump Dailer Jetted Brimmed
Yield: **650** gpm with **48** ft. drawdown after **2** hrs.

16) Water Quality
Did you knowingly penetrate a strata which contain undesirable constituents?
 YES NO If yes, did you submit a REPORT OF UNDESIRABLE WATER
Type of water: _____ Depth of strata: _____
Was a chemical analysis made Yes No

11) Water Level
Static level **63** ft. below Date **01/23/04**
Artesian Flow _____ gpm. Date _____

12) Packers

Type	Depth
NA	

Company or individual's Name (type or print) **Brien Water Wells** Lic. No. **2854 WP**

Address **5214 S. Hwy 6** City **Hearne** State **TX** Zip **77859**

Installer *[Signature]* **2, 17, 04** Signature _____
Licensed Driller/Pump Installer _____ Date _____
Apprentice _____ Date _____

ADD CONT TO 485 Highway

Texas Department of License and Regulation
 Water Well Driller/Pump Installer Program
 P.O. Box 12157 Austin, Texas 78711 (512)463-7880 FAX (512)463-8816
 Toll free (800)803-8202
 Email address: water.well@license.state.tx.us

This form must be completed and filed with the department and owner within 60 days upon completion of the well.

WELL REPORT

1) WELL IDENTIFICATION AND LOCATION DATA

Name: **Goodland Farms#3** Address: **Rt. 1 Box 250** City: **Hearne** State: **Tx** Zip: **77859**

County: **Robertson** Physical Address: **FM 485** City: **Hearne** State: **Tx** Zip: **77859**

3) Type of Work
 New Well Reconditioning
 Replacement Deepening

4) Proposed Use (check) Municipal Environmental Soil Boring Domestic
 Industrial Irrigation Injection Public Supply De-watering Test well
 Kig Supply if Public Supply well, were plans submitted? Yes No

5) **NT**

6) Drilling Date
 Started **11 / 18 / 02**
 Completed **12 / 13 / 02**

7) Drilling Method (check) Driven
 Air Rotary Mud Rotary Core
 Air Hammer Cable Tool Juted
 Over Rev. Circulation

8) Rockhole Completion Open Hole Straight Wall
 Under-reamed Gravel Packed Other
 If Gravel Packed state the interval from **825** ft to **1187** ft

Casing, Blank Pipe, and Well Screen Data

Depth (ft)	Dia. (in.)	New Or Used	Steel, Plastic, etc. Perf. Slotted, etc. Screen Mfg. If commercial	Sealing (ft)	Casing Screen
0 - 40 Sand & Clay					
40 - 60 Gravel					
60 - 142 Sandy Shale					
142 - 495 Shale & Rocks					
495 - 555 Shale					
555 - 582 Sand					
582 - 747 Shale & Coal					
747 - 838 Shale & Sand					
838 - 985 Shale & Sandy Shale					
985 - 1127 sandy Shale					

9) Cementing Data **0 - 10 50** gals
 Cementing from **48** ft to **75** ft # of sacks used **50**
784 ft to **825** ft # of sacks used **50**

Method Used **Grout Pressure**
 Cementing By **E. Brien**
 Distance to septic system field or other concentrated contaminant **0/2** ft
 Method of verification of above distance **n/a**

13) Plugged Well plugged within 48 hours
 Casing left in well: Cement/Grout placed in well:
 From (ft) To (ft) From (ft) To (ft) Sacks used

N/A

14) Type Pump
 Turbine Jet Submersible Cylinder
 Other **N/A**
 Depth to pump level, cylinder, jet etc. **ft**

15) Water Test
 Type test Pump Bailor Juted Estimated
 Yield **2.50** gpm with **11.2** ft drawdown after **2** hrs.

16) Water Quality
 Did you knowingly penetrate a strata which contain undesirable constituents?
 YES NO If yes, did you submit a REPORT OF UNDESIRABLE WATER
 Type of water _____ Depth of Strata _____
 Was a chemical analysis made Yes No

10) Surface Completion
 Specified Surface Sibs Installed
 Specified Surface Sluvs Installed
 Fitter Adapter Used
 Approved Alternative Procedure Used

11) Water Level
 Static level **62** ft below Dia **12/19/02**
 Artesian Flow _____ gpm Date _____

12) Packers

Type	Depth
N/A	

Company or individual's Name (type or print) **Brien Water Wells** Lic. No. **52000 WI**

Address **Rt. 1 Box 702** City **Hearne** State **Tx** Zip **77859**

Signature **Donald Cooper** Date **12/24/02** Signature _____ Date _____

Licensed Driller/Pump Installer _____ Apprentice _____

615

**IMPORTANT NOTICE FOR PERSONS
HAVING WELL DRILLED CONCERNING
CONFIDENTIALITY**

Section 32.005 of the Texas Water Code, concerning confidentiality information in the Reporting of Well Reports, reads as follows:

Every licensed driller drilling, deepening, or otherwise altering a water well in this state shall make and keep a legible and accurate well log in accordance with department rule on forms prescribed by the department. Not later than the 60th day after the completion or cessation of drilling, deepening, or otherwise altering the well, the licensed driller shall deliver or transmit by certified mail a copy of the well log to the department, the Texas Natural Resource Conservation Commission, and the owner of the well or the person for whom the well was drilled. The well log shall be recorded at the time of drilling and must show the depth, thickness, and character of the strata penetrated, the location of water-bearing strata, the depth, size, and character of casing installed, and any other information required by department rule. The department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner or the person for whom the well was drilled.

The last sentence specifies the means whereby you may, if you wish, assure that logs of your wells will be kept confidential.

From (ft)	To (ft)	Description and color of formation material
1127	1187	Sand
Casing, Blank Pipe, & Well Screen Data		
Dia.	New	Fr. to
30	N Steel	0 - 65
16	N Steel	+2 - 984
16	N Pipe Base S.S.Scr.	984 - 1005
16	N Steel	1005 - 1033
16	N Steel	1033 - 1054
16	N Steel	1054 - 1082
16	N Pipe Base S.S.Scr.	1082 - 1103
16	N Steel	1103 - 1131
16	N Pipebase S.S.Scr	1131 - 1173
16	N Steel	1173 - 1175

Gage
.028
.028
.028

NORTH HAVEN DISTRICT

2

Adopting Owner:
Confidentiality Privilege Notice on reverse side of owner's copy.
6255

Texas Department of License and Regulation
Water Well Driller/Pump Installer Program
P.O. Box 12157 Austin, Texas 78711 (512)463-7880 FAX (512)463-8618
Toll free (800)803-8202
Email address: water.well@license.state.tx.us

This form must be completed and filed with the department and owner within 60 days upon completion of the well.

WELL REPORT

1) WELL IDENTIFICATION AND LOCATION DATA

OWNER
Name: Goodland Farms#2 Address: Rt. 1 Box 250 City: Hearne State: Tx Zip: 77859

2) WELL LOCATION
County: Robertson Physical Address: FM 1644 City: Hearne State: Tx Zip: 77859

3) Type of Work
 New Well Reconditioning Proposed Use (check) Monitor Environmental Soil Boring Domestic
 Replacement Deepening Industrial Irrigation Injection Public Supply De-watering Testwell
 Rig Supply If Public Supply well, were plans submitted? Yes No

4) Drilling Data
Started: 10/14/02 Completed: 11/07/02
Diameter of Hole:
1 1/2 (in) From (ft) To (ft)
36 0 72
24 72 979

7) Drilling Method (check)
 Air Rotary Mud Rotary Bored
 Air Hammer Cable Tool Other Rev. Circulation

5) Borehole Completion Open Hole Straight Well Under-reamed Gravel Packed Other
If Gravel Packed give the interval from 979 ft to 795 ft
Casing, Blank Pipe, and Well Screen Data:

Dia. (in.)	New Or Used	Steel, Plastic, etc. Perf. Blotted, etc. Screen Mfg. if commercial	Setting (ft)		Cage Casing Screen
			From	To	
30	N	Steel	0	70	
16	N	Steel	+2	845	
16	N	Pipe Base S.S. screen	845	908	032
16	N	Steel	908	928	

16" N. Pipe Base S.S. Scr. 928-970.032
Consulting Data
Comencing from 0 ft to 10 ft # of seals used 50
898 ft to 928 ft # of seals used 20
Method Used: Grout & Pressure
Comencing By: P. Brien
Distances to septic system field or other concentrated contamination: N/A
Method of verification of sleeve diameter: N/A

13) Plugged Well plugged within 48 hours
Casing left in well: Cement/Bentonite placed in well

From (ft)	To (ft)	From (ft)	To (ft)	Seals used
	N/A			

14) Type Pump
 Turbine Jet Submersible Cylinder
 Other: N/A
Depth to pump bowls, ft/under, let etc.: ft.

15) Water Test
Type of Pump: Pump Bailor Jetted Estimated
Yield: 750 gpm with 50 ft drawdown after 2 hrs.

16) Water Quality
Did you knowingly penetrate a strata which contain undesirable constituents?
 YES NO If yes, did you submit a REPORT OF UNDESIRABLE WATER
Type of water: _____ Depth of Strata: _____
Was a chemical analysis made? Yes No

11) Water Level
Static level: 6.7 ft below Date: 11/07/02
Artesian Flow: _____ gpm. Date: / /

12) Packers Type: _____ Depth: _____
N/A

Company or individual's Name (type or print): Brien Water Wells Lic. No. 4470 WI
Address: Rt. 1 Box 702 City: Hearne State: Tx Zip: 77859

Signature: [Signature] Date: 11/07/02 Signature: [Signature] Date: / /
Title: Driller Apprentice

Texas Department of License and Regulation
 Water Well Driller/Pump Installer Program
 P.O. Box 12157 Austin, Texas 78711 (512)463-7800 FAX (512)403-8618
 Toll free (800)803-0202
 Email address: water.well@lic.state.tx.us

This form must be completed and filed with the department and owner within 60 days upon completion of the well.

WELL REPORT
A. WELL IDENTIFICATION AND LOCATION DATA

1) OWNER
 Name: Barton Farm #2 Address: Rt. 1 Box 250 City: Hearne State: TX Zip: 77859

2) WELL LOCATION
 County: Robertson Physical Address: FM 1644 City: Hearne State: TX Zip: 77859

3) Type of Work
 New Well Reconditioning Replacement Deepening

4) Proposed Use (check) Municipal Environmental Soil Boring Domestic Industrial Irrigation Injection Public Supply De-watering Testwell Rig Supply If Public Supply well, were plans submitted? Yes No

5) Drilling Date
 Started: 11/13/01 Completed: 1/14/02

6) Diameter of Hole

Dia. (in)	From (ft)	To (ft)
32	0	55
44	55	720

7) Drilling Method (check) Driven Air Rotary Mud Rotary Bored Air Hammer Cable Tool Jetted Other: Rev. Circulation

8) Borehole Completion Open Hole Straight Wall Under-reamed Gravel Packed Other

If Gravel Packed, give the interval from 418 ft to 720 ft.

Casing, Blank Pipe, and Well Screen Data

Dia. (in)	New Or Used	Steel, Plastic, etc. Perf. Slotted, etc. Screen Mfg., if commercial	Setting (ft)		Casing Screen
			From	To	
N	30	STEEL PIPE	0	55	
N	16	"	55	497	
N	16	RED BRASS SS. Screen	497	537	.035
N	16	STEEL PIPE	537	560	

9) Cementing Data (over)
 Cementing from 0 ft. to 10 ft. of casing used 25
 361 ft. to 418 ft. of casing used 70

Milled Used TO Milled & Gravel
 Cementing By BRIEN WATER WELLS
 Distance to septic system field or other concentrated septic location 200 ft.
 Method of verification of above distance Skipped

13) Plugged Well plugged within 48 hours
 Casing left in well: Cement/Mentonite placed in well:

From (ft)	To (ft)	From (ft)	To (ft)	Spuds used
		N/A		

14) Type Pump Turbine Jet Submersible Cylinder Other
 Depth to pump bowls, cylinder, etc. 310' ft.

15) Water Test
 Type of Pump Dailer Jetted Estimated
 Yield: 400 gpm with 25' R. drawdown after 12 hrs.

16) Water Quality
 Did you knowingly purchase a state which contain undesirable constituents?
 YES NO If yes, did you submit a REPORT OF UNDESIRABLE WATER
 Type of water _____ Depth of Sample _____
 Was a chemical analysis made Yes No

17) Water Level
 Static level 44 ft. below Date 1/14/02
 Artesian Flow _____ gpm. Date 1/1/02

12) Packers
 Type _____ Depth _____
 N/A

Company or individual's Name (type or print) BRIEN WATER WELLS Lic. No. 1750WI
 Address Rt. 1 Box 702 City HEARNE State TX Zip 77859
 Signature [Signature] 2/13/02 Date Signature [Signature] 1/1/02
 Licensed Driller/Pump Installer Date Apprentice Dive

STATE OF TEXAS WELL REPORT for Tracking #126613

Owner:	Dr. Skiles, Cliff	Owner Well #:	Goodland #5
Address:	Rt 1 Box 250 Hearne, TX 77859	Grid #:	59-11-2
Well Location:	FM 485 & FM 1644 Hearne, TX 77859	Latitude:	30° 52' 13" N
Well County:	Robertson	Longitude:	096° 40' 08" W
Elevation:	No Data	GPS Brand Used:	Not Given
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Date: Started: 11/5/2004
Completed: 11/17/2006

Diameter of Hole: Diameter: 36 in From Surface To 72 ft
Diameter: 24 in From 72 ft To 1100 ft

Drilling Method: Reverse Circulation

Borehole Completion: Gravel Packed From: (No Data) ft to (No Data) ft
Gravel Pack Size:

Annular Seal Data: 1st Interval: From +1 ft to 12 ft with 3 yds concrete (#sacks and material)
2nd Interval: From 58 ft to 68 ft with 25 cement (#sacks and material)
3rd Interval: From 853 ft to 890 ft with 46 cement (#sacks and material)
Method Used: Pressure & Grout
Cemented By: Brien Water Wells
Distance to Septic Field or other Concentrated Contamination: No Data
Distance to Property Line: 50+ ft
Method of Verification: Measured
Approved by Variance: No Data

Surface Completion: Surface Slab Installed

Water Level: Static level: 80 ft. below land surface on 5/17/2007
Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: Turbine
Depth to pump bowl: (No Data) ft

Well Tests: Jetted
Yield: (No Data) GPM with (No Data) ft drawdown after (No Data) hours

Water Quality: Type of Water: Potable
Depth of Strata: 985-1085 ft.
Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Brien Water Wells**
5214 S. Hwy 6
Hearne , TX 77859

Driller License Number: **1750**

Licensed Well Driller Signature: **G. P. Brien**

Registered Driller Apprentice Signature: **No Data**

Apprentice Registration Number: **No Data**

Comments: **Septic field not installed.**
^EO

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #126613) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description
0-72 clay & gravel & sand
72-92 shale
92-109 S-shale & sand
109-112 rock
112-200 shale & S-shale
200-252 S-shale & sand
252-260 sand
260-326 S-shale & shale
326-360 rock
360-465 S-shale & sand
465-514 S-shale & shale
514-594 S-shale & sand (B)
594-704 S-shale & shale
704-773 Sand (B)
773-880 Shale & S-shale
880-906 shale
906-918 S-shale & sand
918-1032 sand
1032-1039 shale
1039-1085 sand (B)
1085-1100 sand & shale

Dia. New/Used Type Setting From/To
30 N Steel +1-68
16 N Steel +2-980
16 N Pipe Base SS Screen 980-1080 .30
16 N Steel 1080-1085

STATE OF TEXAS WELL REPORT for Tracking #127328

Owner:	Skiles Dr., Cliff	Owner Well #:	Goodland #7
Address:	Rt. 1 Box 250 Heame , TX 77859	Grid #:	59-11-3
Well Location:	FM 485 & FM 1644 Heame , TX 77859	Latitude:	30° 52' 25" N
Well County:	Robertson	Longitude:	096° 39' 32" W
Elevation:	No Data	GPS Brand Used:	Not Given
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Date: Started: 11/22/2004
Completed: 1/10/2007

Diameter of Hole: Diameter: 36 in From Surface To 72 ft
Diameter: 24 in From 72 ft To 1131 ft

Drilling Method: Reverse Circulation

Borehole Completion: Gravel Packed From: 908 ft to 1113 ft
Gravel Pack Size: 12-20

Annular Seal Data: 1st Interval: From +1 ft to 12 ft with 3 Yds Concrete (#sacks and material)
2nd Interval: From 58 ft to 72 ft with 28 Cement (#sacks and material)
3rd Interval: From 875 ft to 908 ft with 40 Cement (#sacks and material)
Method Used: Pressure & Grout
Cemented By: Brien Water Wells
Distance to Septic Field or other Concentrated Contamination: No Data
Distance to Property Line: 50+ ft
Method of Verification: Measured
Approved by Variance: No Data

Surface Completion: Surface Slab installed

Water Level: Static level: 76 ft. below land surface on 6/12/2007
Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: Turbine
Depth to pump bowl: (No Data) ft

Well Tests: Jetted
Yield: (No Data) GPM with (No Data) ft drawdown after (No Data) hours

Water Quality: Type of Water: Potable
Depth of Strata: 985-1085 ft.
Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: Brien Water Wells
5214 S Hwy 6
Hearne , TX 77859

Driller License Number: 1750

Licensed Well Driller Signature: G. P. Brien

Registered Driller Apprentice Signature: No Data

Apprentice Registration Number: No Data

Comments: Septic system not installed.
^EO

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking number (Tracking #127328) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description

0-72 clay and gravel and sand

72-118 sand and sandy shale

118-171 shale

171-190 sand and sandy shale

190-198 shale

198-212 s-shale

212-213 rock

213-241 shale

241-243 rock

243-285 s-shale and sand and rock

285-315 sand(b)

315-320 s-shale

320-337 shale

337-470 s-shale and rocks

470-570 sandy shale and shale

570-590 shale and soft rocks

590-730 shale

730-810 sand and rocks

810-880 shale

880-925 shale and sandy shale

925-928 rock

928-955 sand(b)

955-1004 sand (some streaks of shale)

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
30 N Steel	+1-68		
16 N Steel	+2-1011		
16 N Pipe Base	SS Screen		1011-1111 .030
16 N Steel	1111-1113		

1004-1010 rock
1010-1024 sand(b)
1024-1042 sand and streak of coal
1042-1049 rock
1049-1118 sand
1118-1120 shale and coal
1120-1130 sand
1130-1131 rock

STATE OF TEXAS WELL REPORT for Tracking #129625

Owner:	Dr. Cliff Skiles	Owner Well #:	Red Hill #1
Address:	Rt. 1 Box 250 Hearne, TX 77859	Grid #:	59-03-9
Well Location:	Little Brazos River Hearne, TX 77859	Latitude:	30° 53' 55" N
Well County:	Robertson	Longitude:	096° 38' 44" W
Elevation:	No Data	GPS Brand Used:	Not Given
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Date: Started: 11/29/2004
 Completed: 10/19/2006

Diameter of Hole: Diameter: 36 in From Surface To 76 ft
 Diameter: 24 in From 76 ft To 964 ft

Drilling Method: Reverse Circulation

Borehole
 Completion: Gravel Packed From: 775 ft to 964 ft
 Gravel Pack Size: 12-20

Annular Seal Data: 1st Interval: From 1 ft to 12 ft with 3 Yds. Concrete (#sacks and material)
 2nd Interval: From 54 ft to 76 ft with 30 (#sacks and material)
 3rd Interval: From 730 ft to 775 ft with 46 (#sacks and material)
 Method Used: Pressure & Grout
 Cemented By: Brion Water Wells
 Distance to Septic Field or other Concentrated Contamination: No Data
 Distance to Property Line: 50+ ft
 Method of Verification: Measured
 Approved by Variance: No Data

Surface
 Completion: Surface Sleeve Installed

Water Level: Static level: 27 ft. below land surface on 6/16/2007
 Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: Turbine
 Depth to pump bowl: (No Data) ft

Well Tests: Jetted
 Yield: (No Data) GPM with (No Data) ft drawdown after (No Data) hours

Water Quality: Type of Water: Potable
 Depth of Strata: 844-959 ft.
 Chemical Analysis Made: No
 Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Brien Water Wells**
5214 S. Hwy 6
Hearne , TX 77859

Driller License Number: **1750**

Licensed Well Driller Signature: **Pete Brien**

Registered Driller Apprentice Signature: **No Data**

Apprentice Registration Number: **No Data**

Comments: **No septic system installed.**
^EO

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #129625) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0-35		clay
35-66		gravel
66-76		shale
76-168		shale & sandy shale
168-222		sandy shale
222-300		shale
300-330		sand & sandy shale
330-340		sandy shale & rocks & shale
340-365		sandy shale & rocks
365-378		sandy shale
378-450		sand (b)
450-462		sandy shale & rocks
462-578		sand (b) & rocks
578-581		rock (hard)
581-606		shale & sandy shale
606-668		brown shale & shale (tight)
668-844		gray shale and coal
844-850		sand & sandy shale
850-892		sand (b) & rocks
892-902		sand (b) & sandy shale
902-912		sandy shale
912-948		sand (b) & sandy shale (rocks)
948-964		shale & sandy shale & rocks

Dia.	New/Used	Type	Setting From/To
30 N		Steel Casing	+1-72
16 N		Steel Casing	+2-845
16 N		SS Pipe Based Screen	845-845 .030
16 N		Steel Casing	945-964

STATE OF TEXAS WELL REPORT for Tracking #126630

Owner:	Dr. Skiles, Cliff	Owner Well #:	Goodland #6
Address:	Rt 1 Box 250 Hearne, TX 77859	Grid #:	59-11-2
Well Location:	FM 485 Hearne, TX 77859	Latitude:	30° 52' 02" N
Well County:	Robertson	Longitude:	096° 40' 44" W
Elevation:	No Data	GPS Brand Used:	Not Given
Type of Work: New Well		Proposed Use: Irrigation	

Drilling Date: Started: 11/13/2004
Completed: 12/7/2006

Diameter of Hole: Diameter: 36 in From Surface To 72 ft
Diameter: 24 in From 72 ft To 1090 ft

Drilling Method: Reverse Circulation

Borehole Completion: Gravel Packed From: 875 ft to 1090 ft
Gravel Pack Size: 12-20

Annular Seal Data: 1st Interval: From 1 ft to 12 ft with 3 yds concrete (#sacks and material)
2nd Interval: From 52 ft to 72 ft with 30 (#sacks and material)
3rd Interval: From 830 ft to 875 ft with 46 (#sacks and material)
Method Used: Pressure & Grout
Cemented By: Brien Water Wells
Distance to Septic Field or other Concentrated Contamination: 150+ ft
Distance to Property Line: 50+ ft
Method of Verification: Measured
Approved by Varlance: No Data

Surface Completion: Surface Sleeve Installed

Water Level: Static level: 51 ft. below land surface on 5/7/2007
Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: Turbine
Depth to pump bowl: 400 ft

Well Tests: Jetted
Yield: (No Data) GPM with (No Data) ft drawdown after (No Data) hours

Water Quality: Type of Water: Potable
Depth of Strata: 910-1100 ft.
Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Brien Water Wells**
5214 S. Hwy 6
Hearne , TX 77859

Driller License Number: **1750**

Licensed Well Driller Signature: **G. P. Brien**

Registered Driller Apprentice Signature: **No Data**

Apprentice Registration Number: **No Data**

Comments: **No Data**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #126630) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description

0-30 sandy clay

30-80 clay and gravel

80-126 shale

126-140 shale and coal

140-172 sand (B) & S-shale

172-248 shale and coal

248-270 sand and S-shale

270-359 shale and S-shale

359-368 shale (tight)

368-369 shale and S-shale

369-423 shale

423-486 S-shale and shale

486-522 shale

522-553 sand and S-shale

553-568 shale

568-570 rock

570-675 S-shale

675-768 shale & S-shale

768-850 shale and rocks

850-910 S-shale and rocks

910-919 sand and S-shale

919-925 sand and some coal

925-935 S-shale and shale

935-1009 sand

Dia. New/Used Type Setting From/To

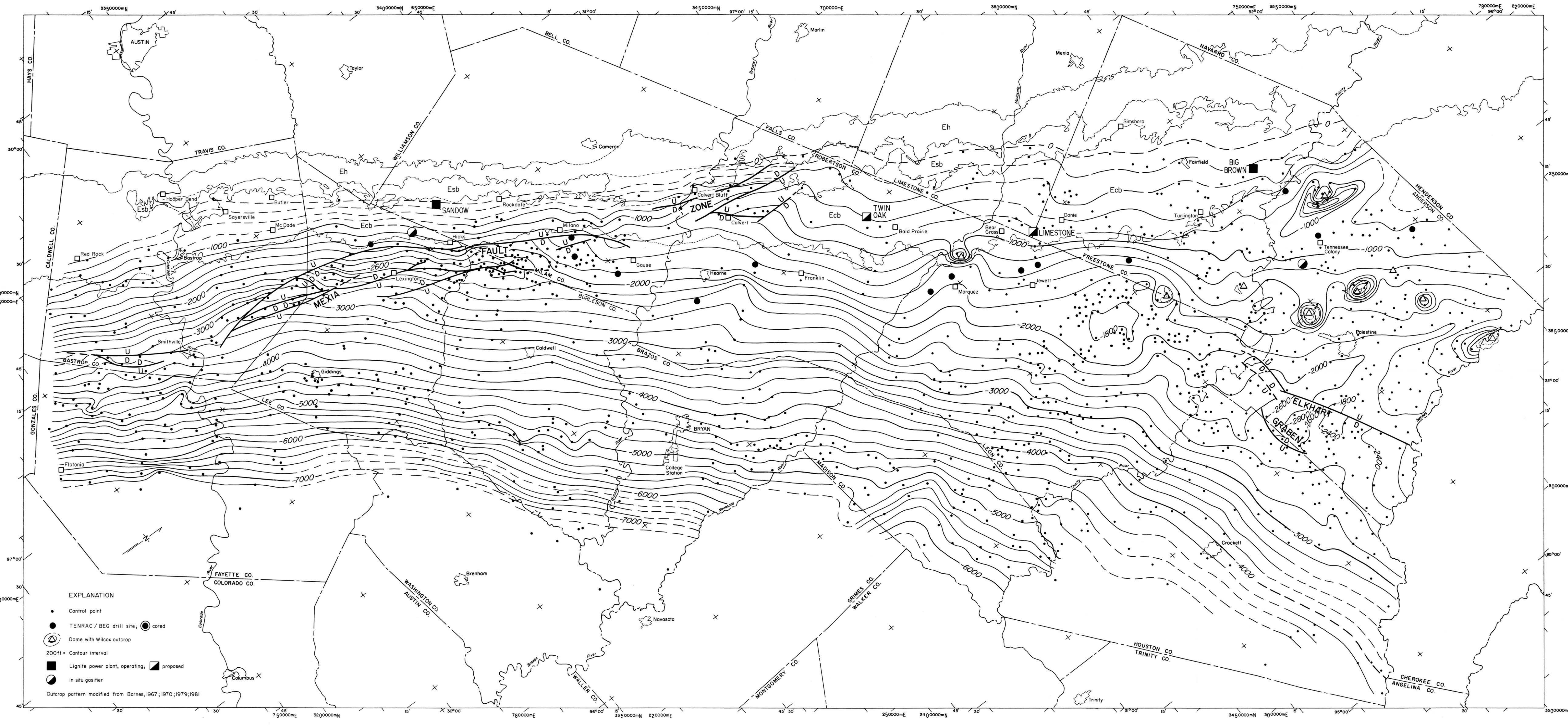
30 N Steel Casing +1-70

16 N Steel Casing +2-985

16 N SS Pipe Based Screen 985-1085 .030

16 N Steel Casing 1085-1090

1009-1018 S-shale
1018-1021 shale
1021-1028 sand and S-shale
1028-1032 shale
1032-1071 sand and S-shale
1071-1100 sand



EXPLANATION

- Control point
- TENRAC / BEG drill site; ● cored
- ⊙ Dome with Wilcox outcrop
- 200ft = Contour interval
- Lignite power plant, operating; ▣ proposed
- ⊙ In situ gasifier

Outcrop pattern modified from Barnes, 1967, 1970, 1979, 1981

Ecb Calvert Bluff Formation
 Esb Simsboro Formation
 Eh Hooper Formation

Base map adapted from Army Map Service base maps, 10,000-meter Universal Transverse Mercator grid, zones 14 and 15. Cartography by John T. Ames under the supervision of Richard L. Dillon.
 by W. B. Ayers, Jr., and Amy H. Lewis

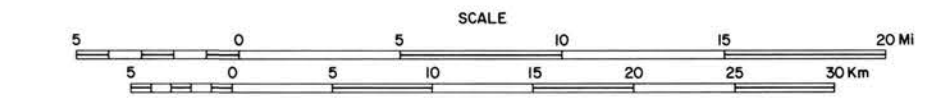
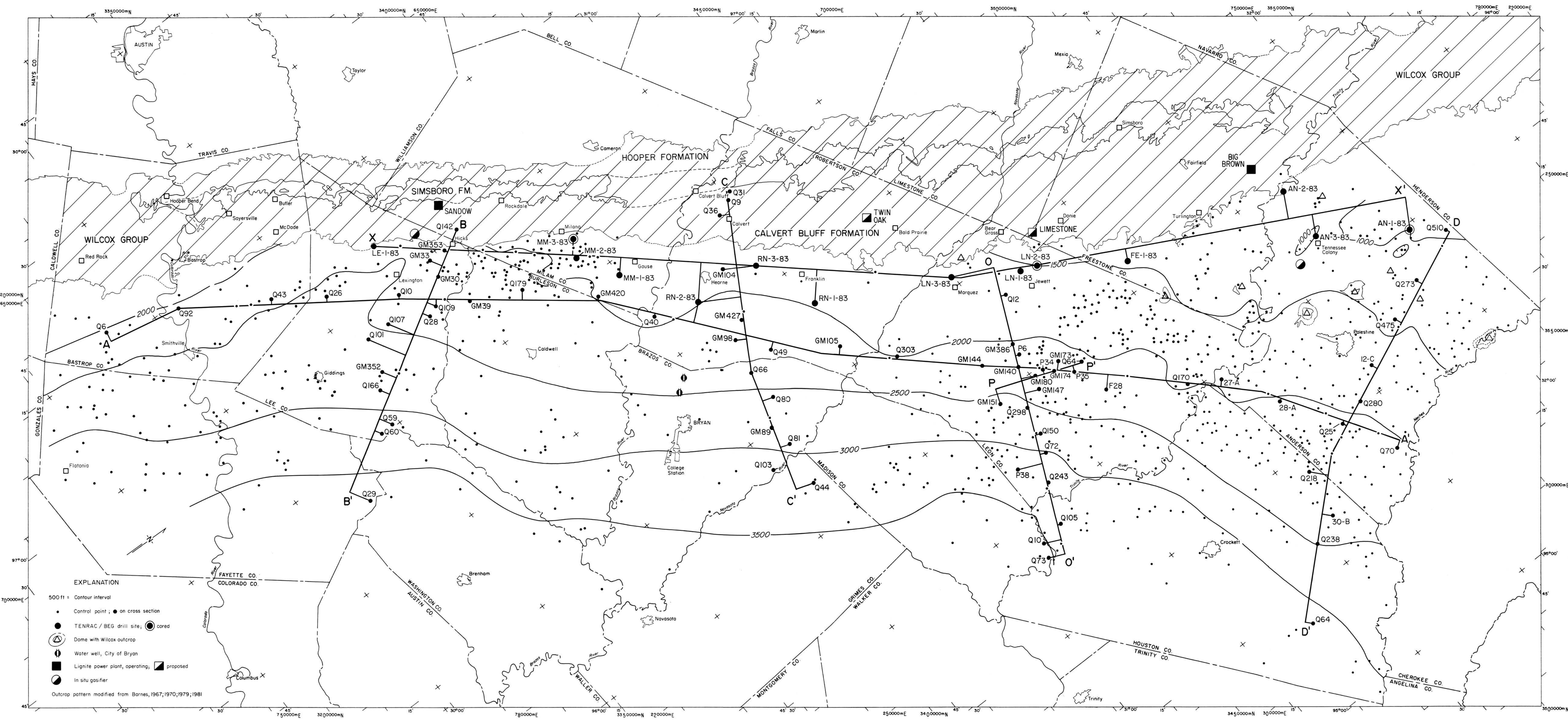


PLATE 2. WILCOX STRUCTURE MAP
 1985

Generalized structure map drawn on the base of the Wilcox Group (sea-level datum) shows regional dip to the southeast. The angle of dip increases from the northeast ($1/2^\circ$) to the southwest (2°). Major structural elements are the Mexia Fault Zone, the Elkhart Graben, salt structures in Anderson and Freestone Counties, and the East Texas Basin (fig. 2).



- EXPLANATION**
- 500 ft = Contour interval
 - Control point; ● on cross section
 - TENRAC / BEG drill site; ● cored
 - ⊙ Dome with Wilcox outcrop
 - ⊕ Water well, City of Bryan
 - Lignite power plant, operating; ▣ proposed
 - ⊙ In situ gasifier
 - Outcrop pattern modified from Barnes, 1967; 1970; 1979; 1981

Base map adapted from Army Map Service base maps. 10,000-meter Universal Transverse Mercator grid, zones 14 and 15. Cartography by John T. Ames under the supervision of Richard L. Dillon.

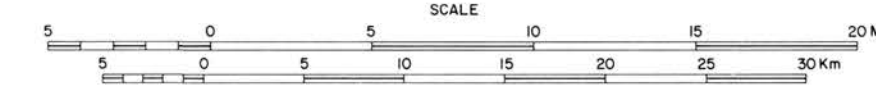


PLATE 3. WILCOX ISOPACH MAP AND LOCATIONS OF CROSS SECTIONS

1985

The Wilcox Group thickens from less than 1,000 ft (305 m) on the north to more than 3,500 ft (1,065 m) at the basinward margin of the study area. The local increase in thickness in central Lee County is attributed to syndepositional movement along the Mexia Fault Zone (fig. 2 and pl. 2).

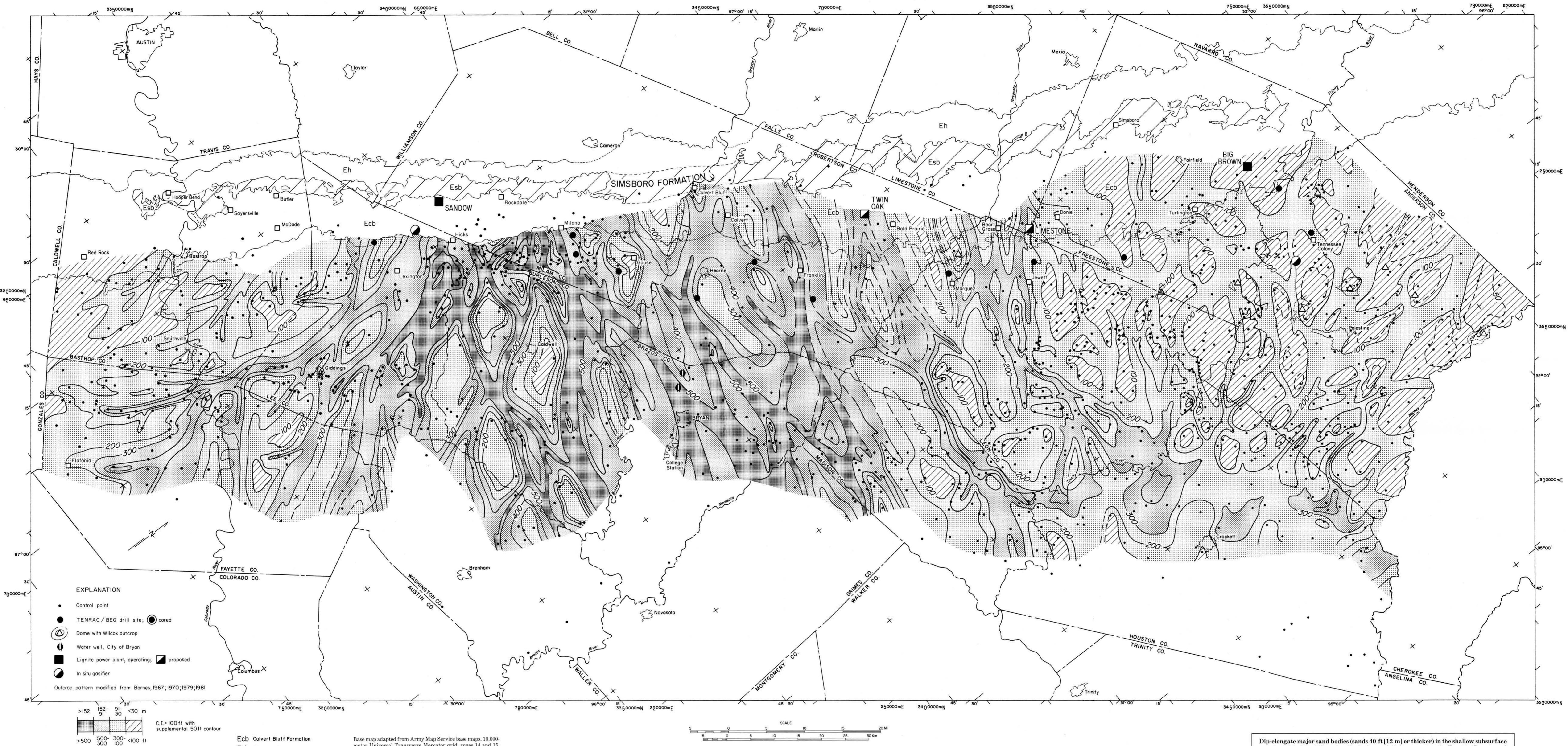


PLATE 5. SIMSBORO FORMATION, MAJOR-SAND ISOLITH MAP

1985

Ecb Colvert Bluff Formation
Esb Simsboro Formation
Eh Hooper Formation

Base map adapted from Army Map Service base maps, 10,000-meter Universal Transverse Mercator grid, zones 14 and 15. Cartography by John T. Ames under the supervision of Richard L. Dillon.

by W. B. Ayers, Jr., and Amy H. Lewis

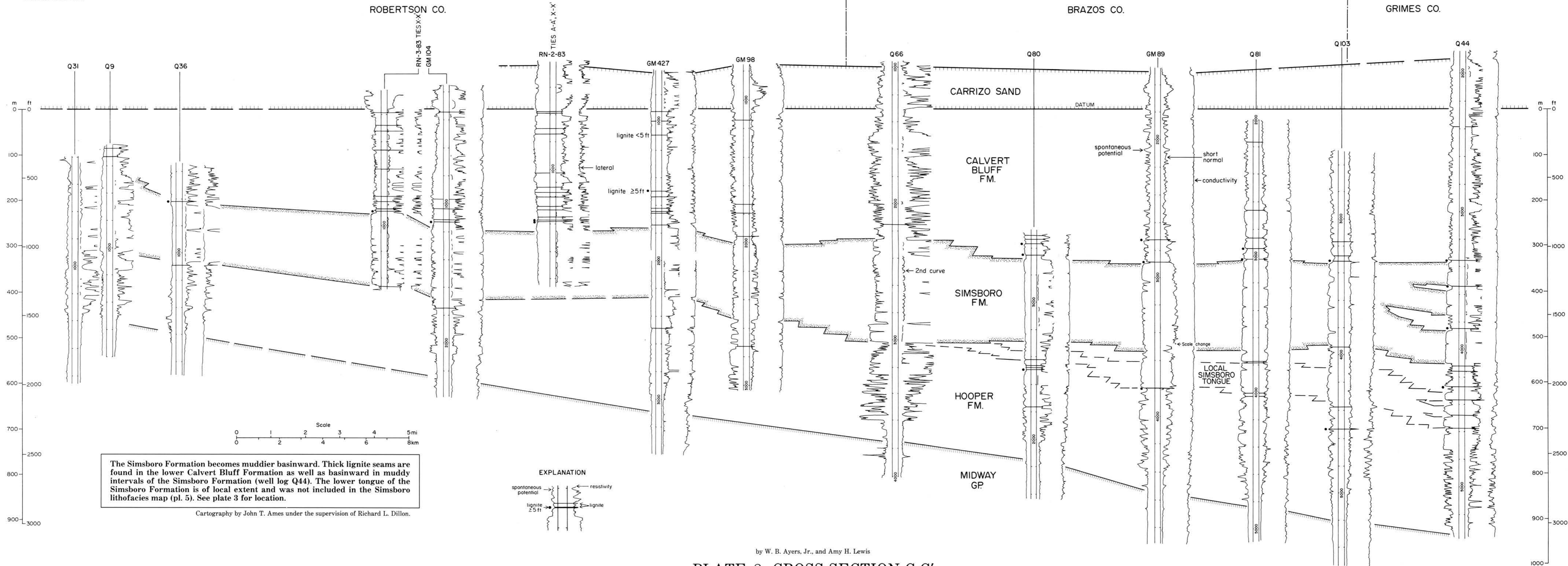
Dip-elongate major sand bodies (sands 40 ft [12 m] or thicker) in the shallow subsurface are straight; they bifurcate, displaying a deltaic geometry, in Fayette County and terminate in small delta lobes in Houston County. When projected updip, sand-body trends southwest of Leon County (Rockdale fluvial-deltaic system) intersect at a broad locus in Coryell County (fig. 3). Sand-body trends in Anderson and Houston Counties (secondary fluvial system with sources to the north and northeast) are directed into the axis of the East Texas Basin (fig. 2 and pl. 2).

C

NORTHWEST

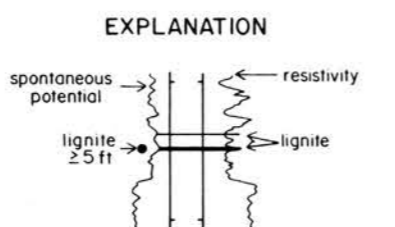
C'

SOUTHEAST



The Simsboro Formation becomes muddier basinward. Thick lignite seams are found in the lower Calvert Bluff Formation as well as basinward in muddy intervals of the Simsboro Formation (well log Q44). The lower tongue of the Simsboro Formation is of local extent and was not included in the Simsboro lithofacies map (pl. 5). See plate 3 for location.

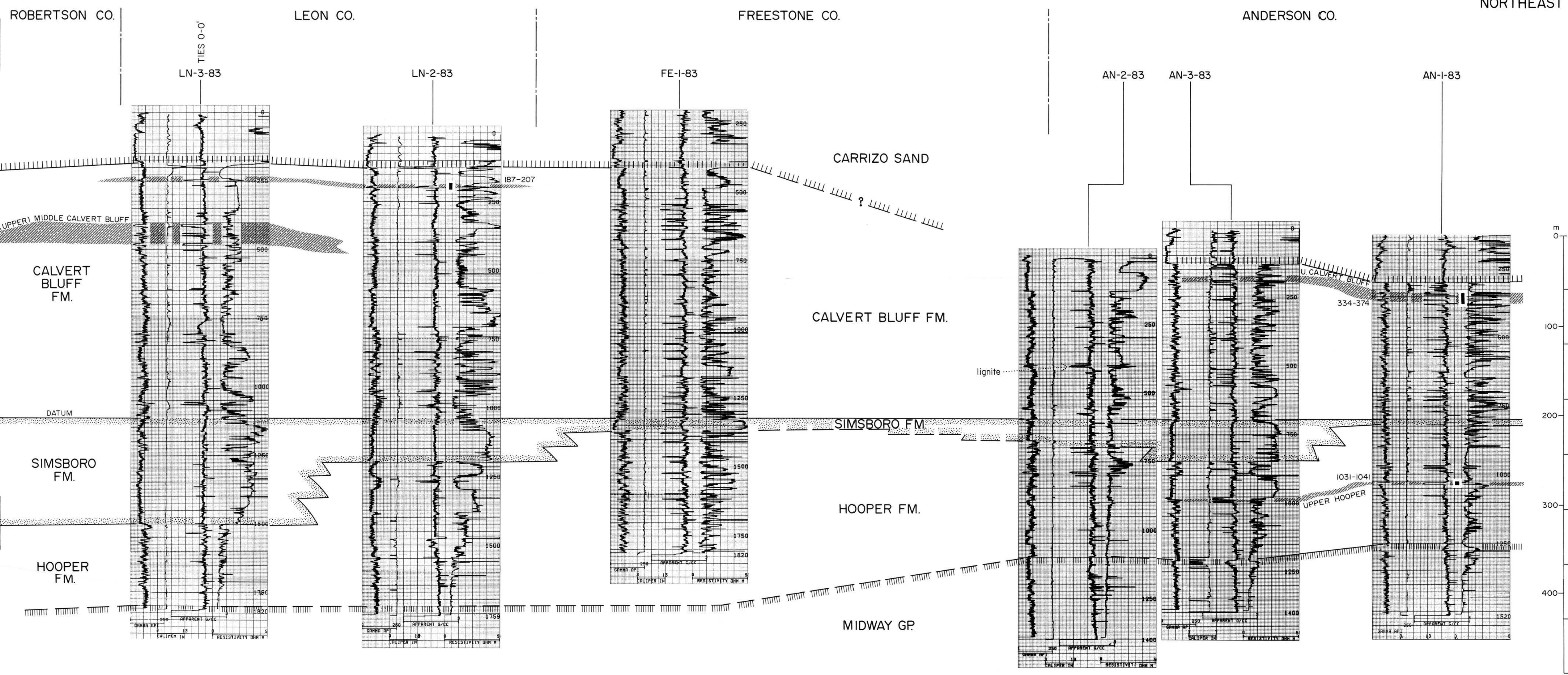
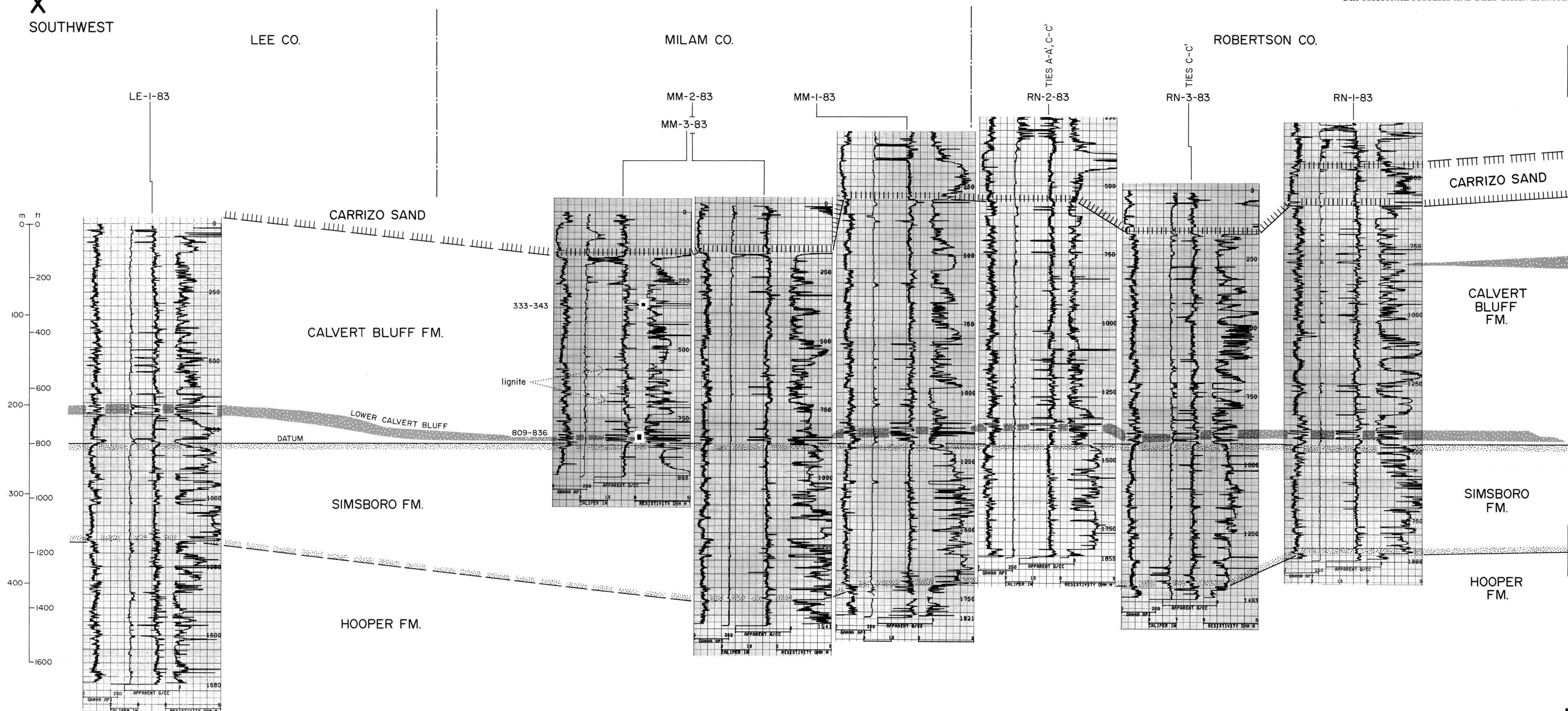
Cartography by John T. Ames under the supervision of Richard L. Dillon.



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PLATE 8. CROSS SECTION C-C'
 1985

X
SOUTHWEST

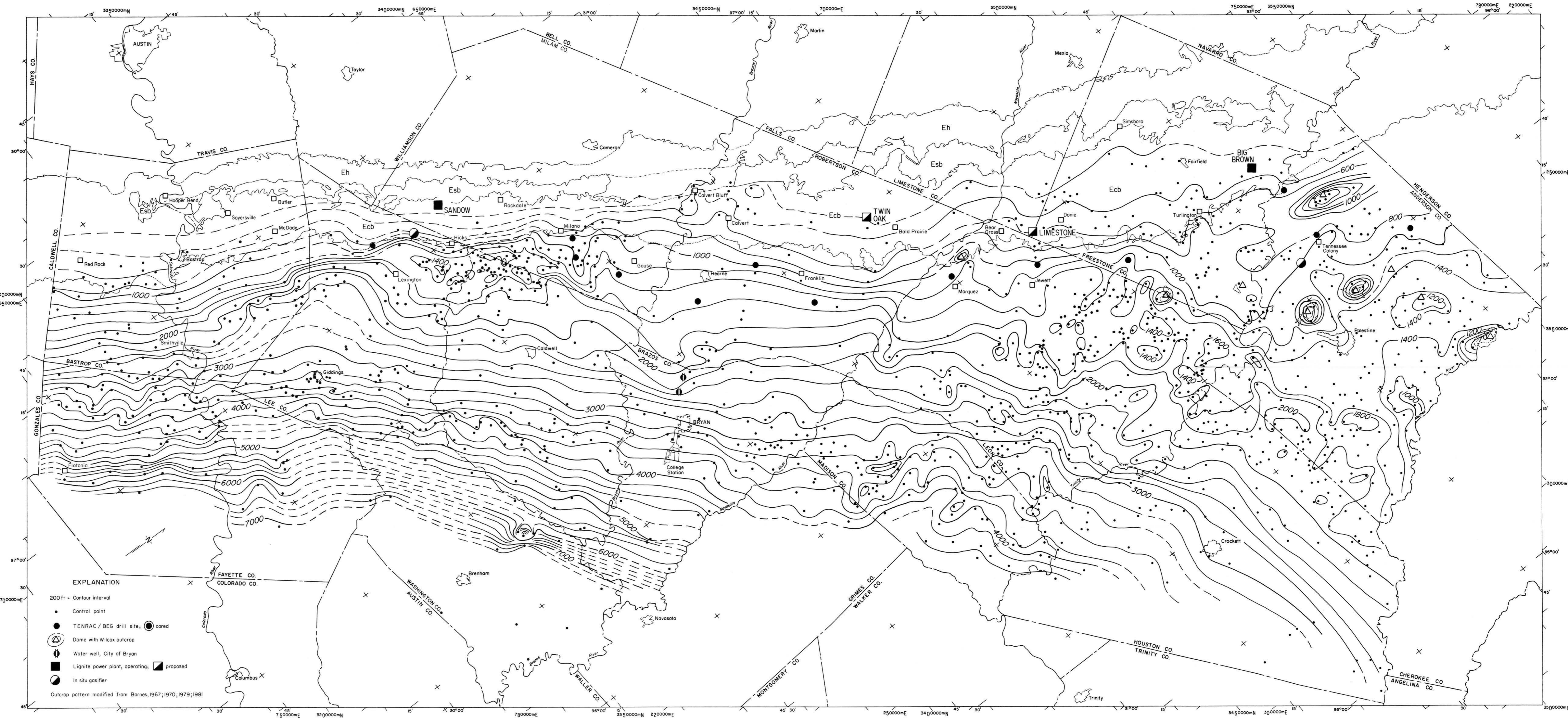


Geophysical logs from Texas Energy and Natural Resources Advisory Council/Bureau of Economic Geology wells show the stratigraphic occurrence of deep lignite (200 to 2,000 ft [61 to 610 m]) in east-central Texas. Thick lignite seams (seams 5 ft [1.5 m] or thicker) are found in the (a) upper Hooper Formation on the northeast, (b) lower Calvert Bluff Formation on the southwest, and (c) upper Calvert Bluff Formation on the northeast. Lateral continuity of individual lignite seams within the zones is neither implied nor true; wells were drilled in low-sand (floodbasin) areas between major-sand axes, which limit seam continuity. See plate 3 for location. Full-scale geophysical well logs are available from the Bureau of Economic Geology.

by W. B. Ayers, Jr., and Amy H. Lewis

PLATE 22. LIGNITE CROSS SECTION X-X'
1985

EXPLANATION
Zone of thick lignite
(1 or more seams ≥5 ft [1.5 m])
333-343 ■ Cored interval



Ecb Calvert Bluff Formation
 Esb Simsboro Formation
 Eh Hooper Formation

Base map adapted from Army Map Service base maps, 10,000-meter Universal Transverse Mercator grid, zones 14 and 15. Cartography by John T. Ames under the supervision of Richard L. Dillon.

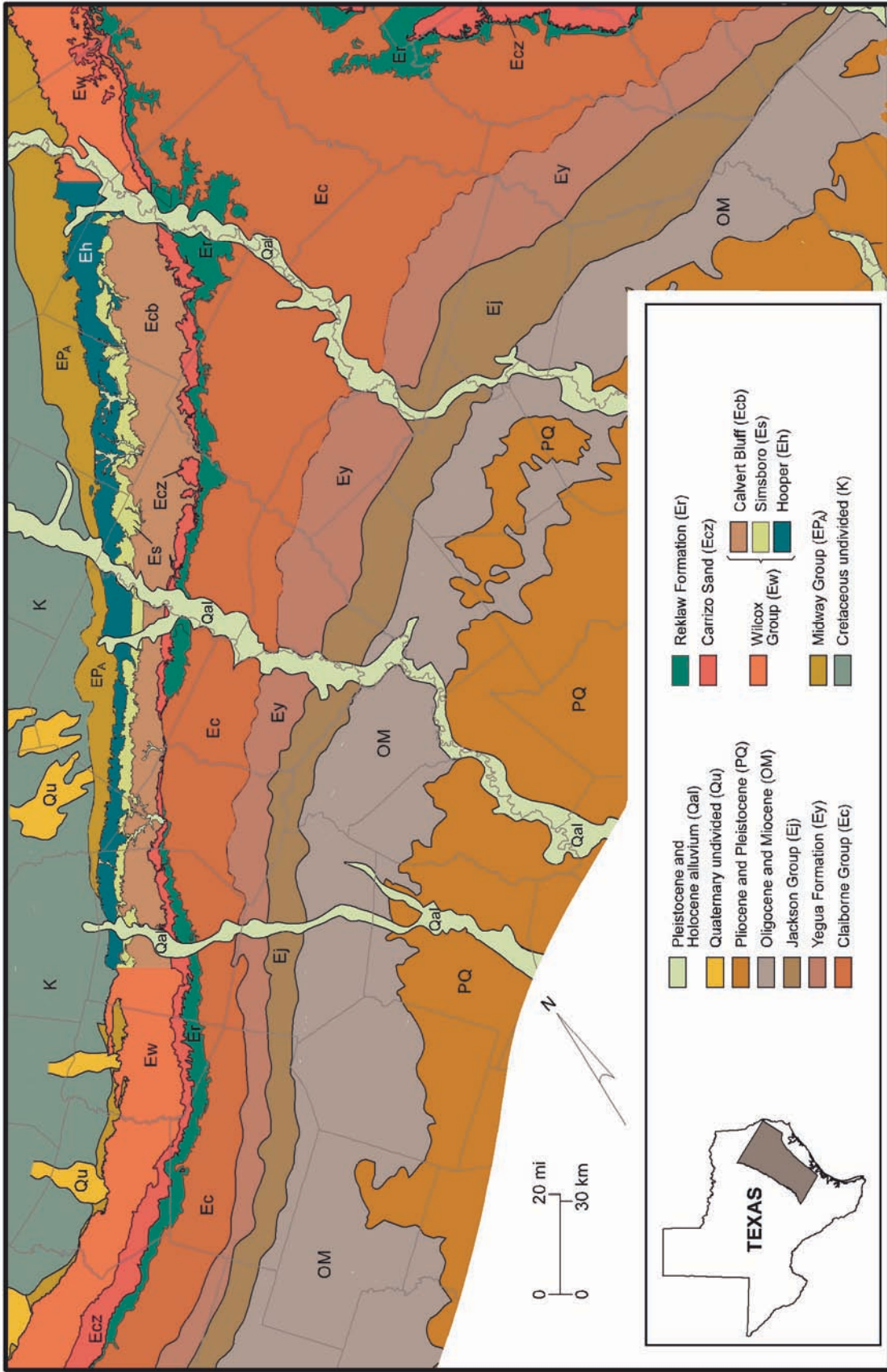
by W. B. Ayers, Jr., and Amy H. Lewis

PLATE 28. SIMSBORO OVERBURDEN MAP

1985

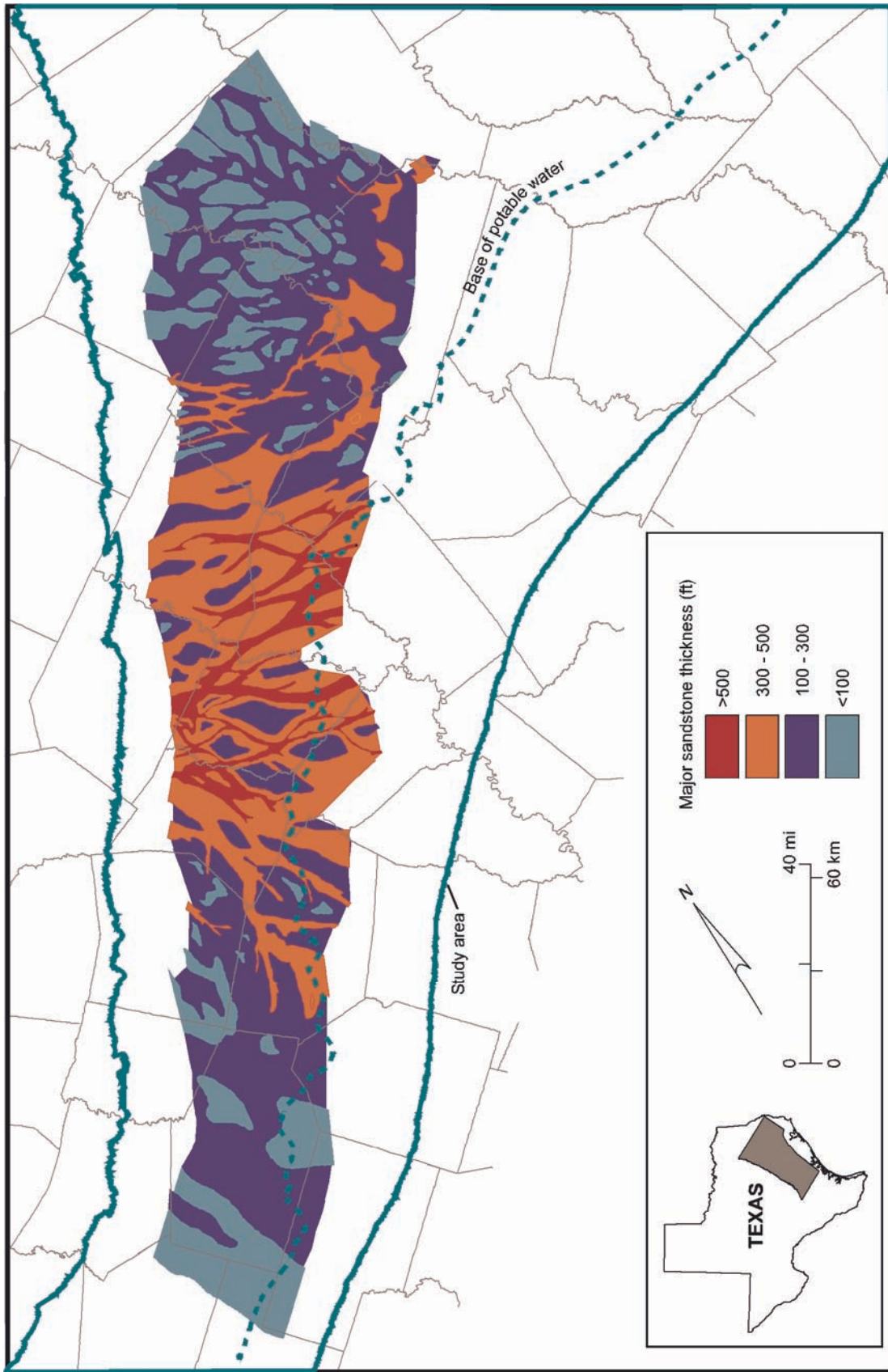
The depth to the top of the Simsboro (Simsboro overburden) provides an estimate of the depth required to test the entire lignite-bearing Calvert Bluff Formation.

04E1984-28



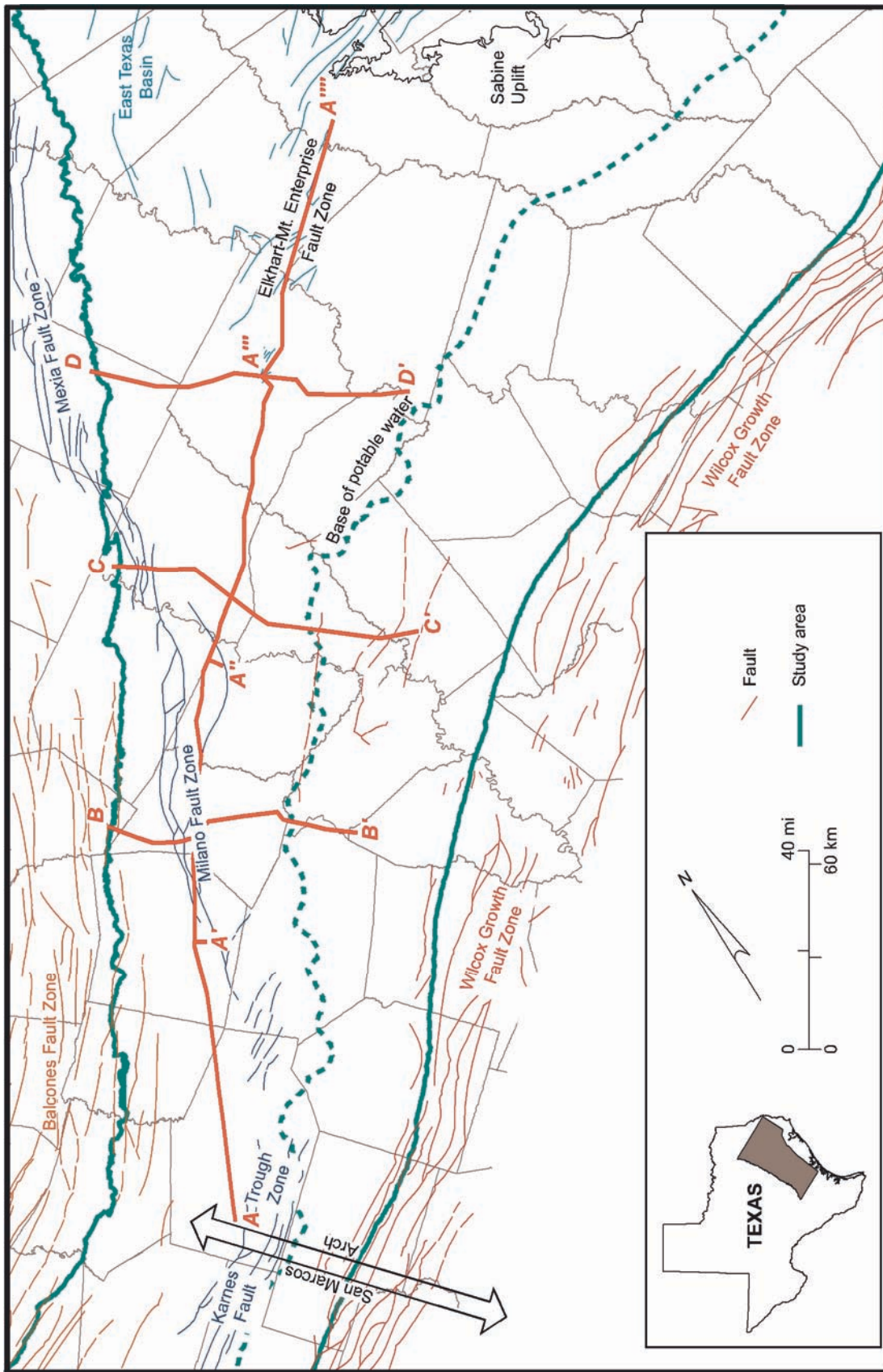
QA41815c

Figure 11. Generalized map of surface geology in the study area. The Wilcox Group is not subdivided into formations south of the Colorado River or north of the Trinity River. Claiborne Group shown on map does not include Yegua Formation, Reklaw Formation, and Carrizo Sand. Modified from Bureau of Economic Geology (1992).



Q-A41799c

Figure 12. Thickness of major sandstones in the Simsboro Formation in the study area. Modified from Ayers and Lewis (1985).



QAd1798c

Figure 14. Geologic structure in the study area. Modified from Ewing (1990). Lines of sections shown in figures 15 and 16.

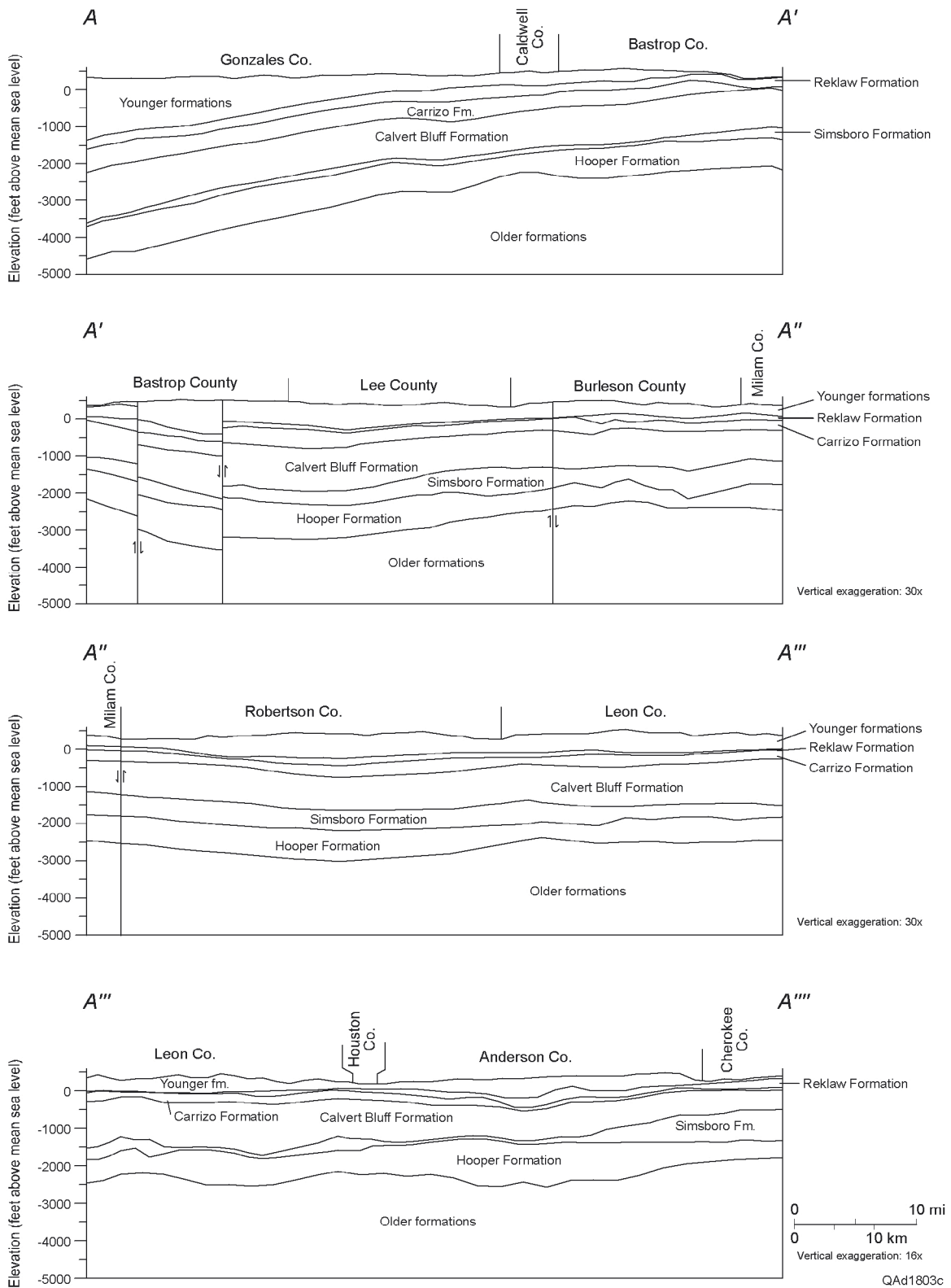
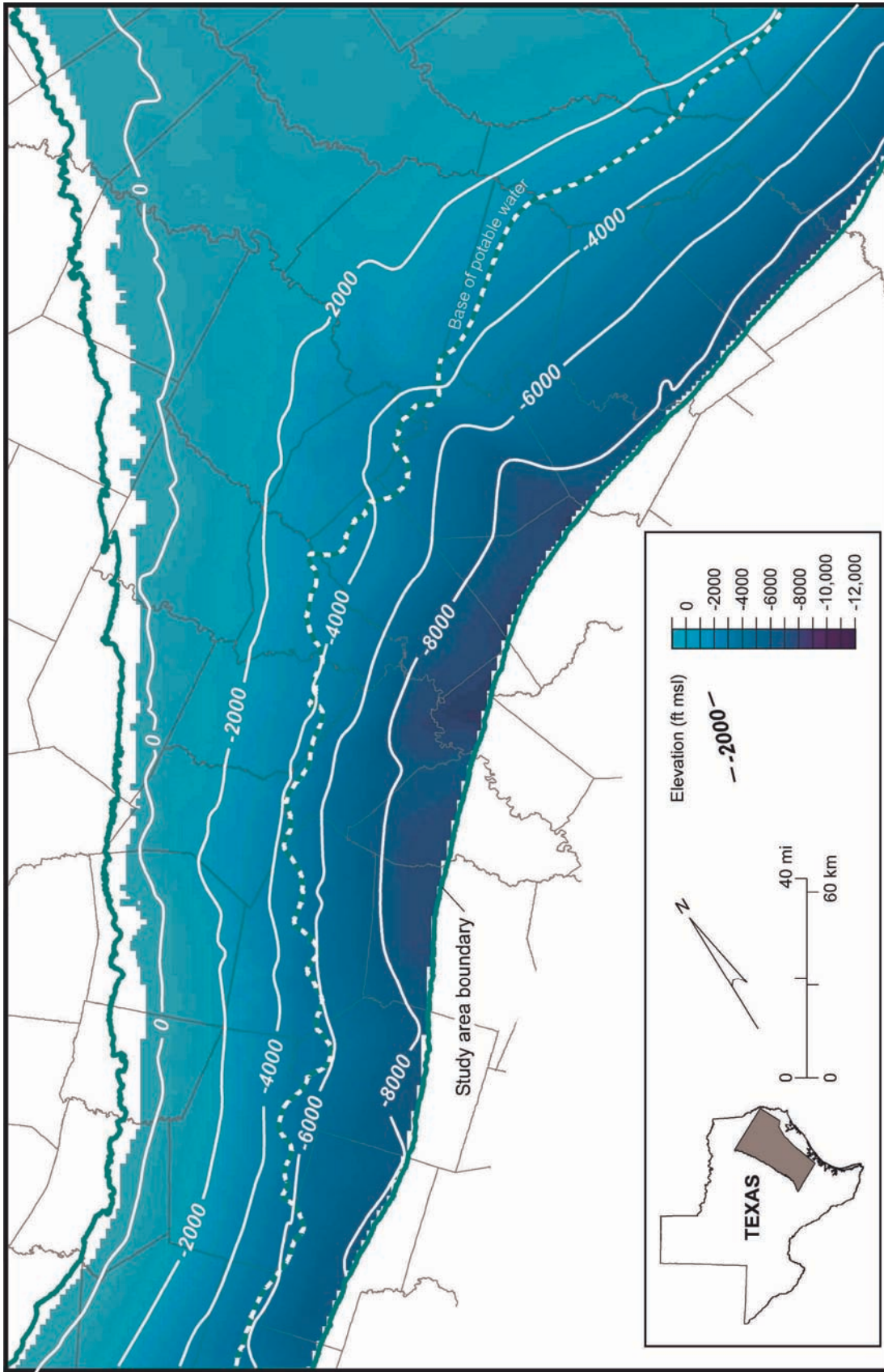
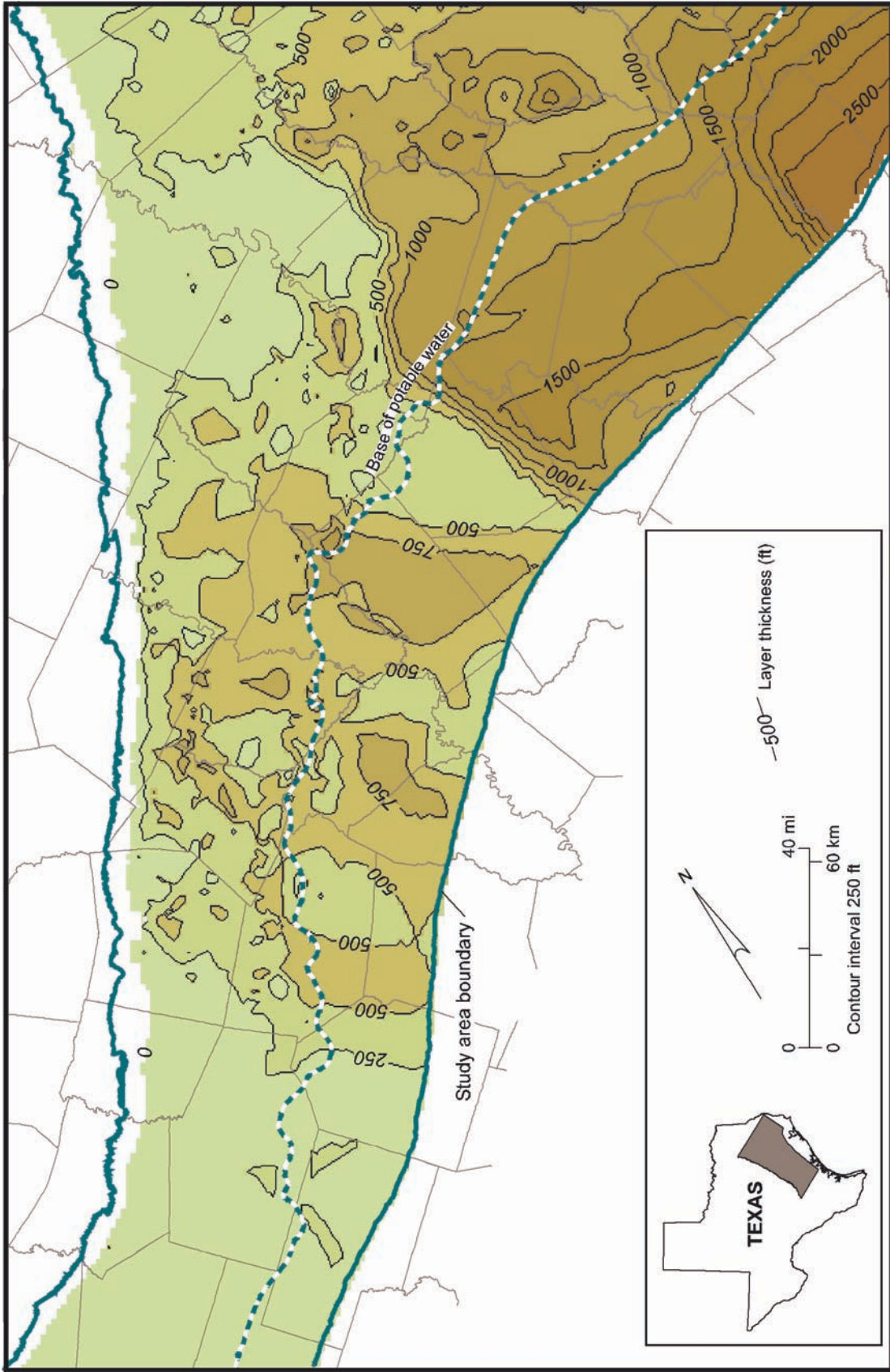


Figure 15. Vertical strike-oriented profile of the formations making up the Carrizo–Wilcox aquifer and adjacent formations. Strike section A–A''' shown in figure 14.



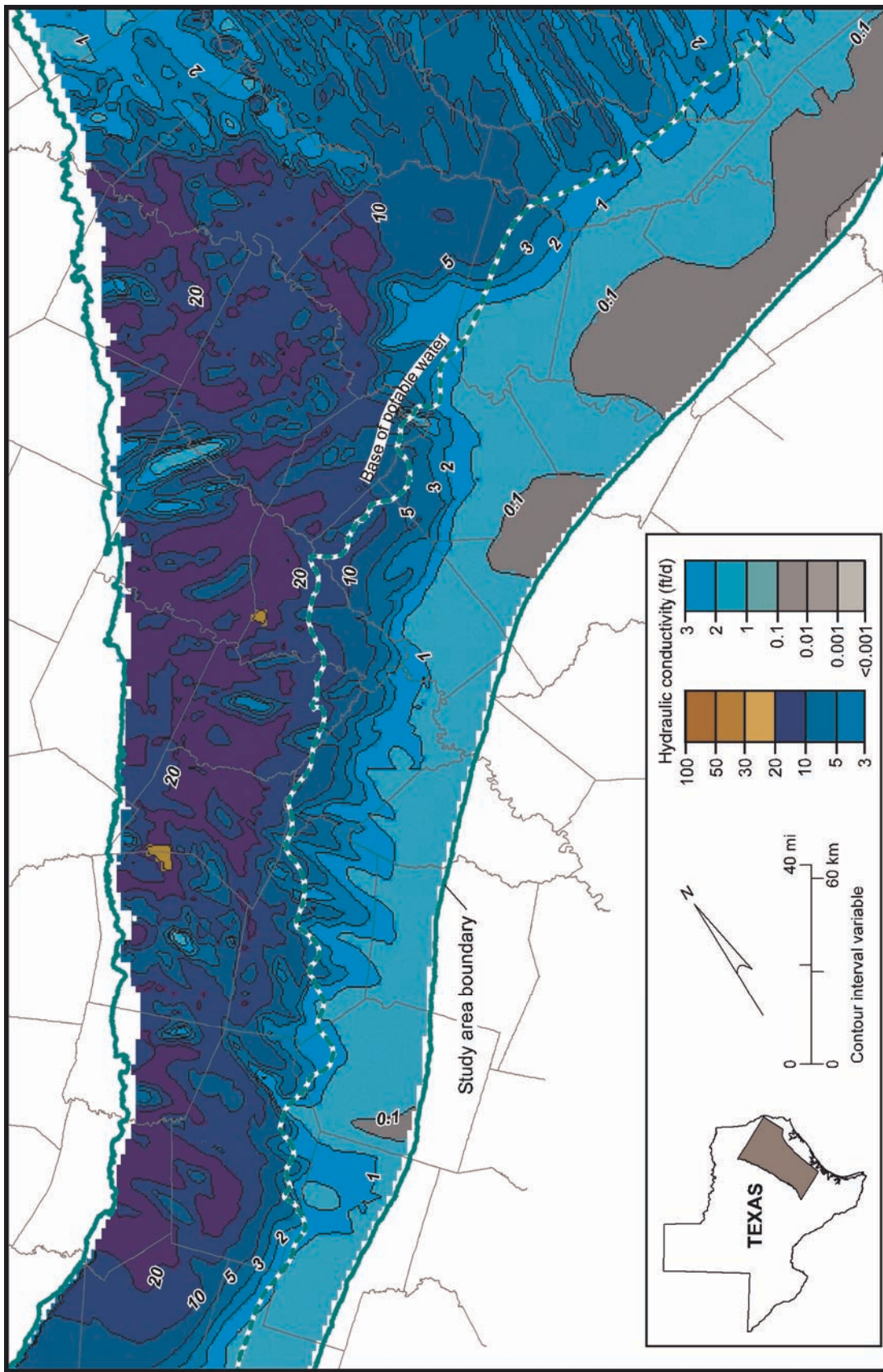
QA41812c

Figure 19. Elevation of the base of the Calvert Bluff Formation (top of Simsboro Formation).



QA41820c

Figure 24. Total thickness of the Simsboro Formation.



QA01811(e)c

Figure 49. Map of average hydraulic conductivity in the Simsboro Formation. Method of calculation described in text.