W

<16,844FT>

<7,390FT>

<4,718FT>

<8,853FT>

E

49051
IRELAND FEE 001
TEXACO, INC.
DRY HOLE-P&A
ELEV_KB : 23

238687
VUD;SIMONEAUX FAMILY LAND LLC 005
CASTEX ENERGY, INC.
GAS-P&A
ELEV_KB : 44

SIMONEAUX CCS INJECTOR NO. 001

125786
ST CHARLES LD & TRUST CO C 001
PAN AMERICAN PETROLEUM CORP.
DRY HOLE-P&A
ELEV_KB : 23

81236
WATERFORD OIL CO 001
THE CALIFORNIA COMPANY
DRY HOLE-P&A
ELEV_KB : 23

W. AoR Boundary

W. Plume Extents

5,000'
11,450'

7,600'
11,750'

E. Plume Extents

E. AoR Boundary

VSH_LAPIS 0.2 1.2 | RDEEP 0 10 | VSH_LAPIS 0.2 1.2 | DRES 0 10 | VSH_LAPIS 0.2 1.2 | RDEEP 0 10 | VSH_LAPIS 0.2 1.2 | RDEEP 0 10

PLIOCENE

MIOCENE

UPPER CONFINING ZONE (UCZ)

CRISTELLARIA K

UM2_BASE

BIGENERINA NODOSARIA

UM3_BASE

TOP OF MIDDLE MIOCENE

LOWER CONFINING ZONE (LCZ)

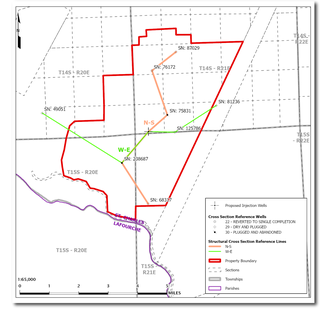
TD: 14,007' MD/TVD

TD: 13,005' MD
TD: 12,600' TVD
PERFS: 11,832-11,840' MD

PTD: 9,975' MD / TVD

TD: 12,684' MD / TVD

TD: 12,750' MD/TVD



Professional Geoscientist Signature Box

Stephen Pattee, P.G.
Print

Signature

Date: 10/30/2024

W-E Structural Cross Section

Simoneaux CCS Injector No. 001, No. 002, & No. 003

Lapis Energy

Appendix B-1

By: Mitchell Dan	Drawn by: Alex Houston Approved by: Stephen Pattee	Date: 10/30/2024

LONQUIST SEQUESTRATION LLC

Louisiana Registration No. EF 5937

Well Symbol Definitions

- Proposed Class VI Injection Well No. 001
- Dry Hole - P&A
- Gas Well - P&A

Log Annotation Definitions

- Formation Top Correlations
- Fault
- Confining Zone

Well Log Header Text Explanation

- WELL SERIAL NUMBER
- WELL NAME + WELL NUMBER
- OPERATOR
- WELL STATUS CODE
- REFERENCE ELEVATION

Notes

Note$_1$: Distances may not be shown proportionally on the cross section. True distances between wells are labeled at the top of the drawing.

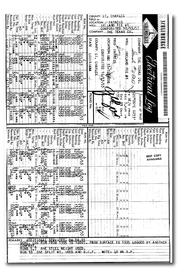
Note$_2$: The cross section is referenced to sea level.

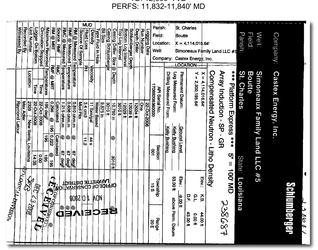
Note$_3$: Dashed lines indicate inferred depths.

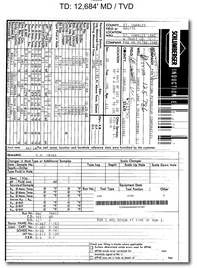
Horizontal Scale

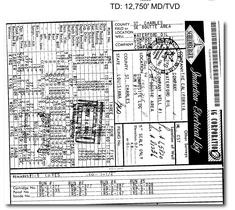
0' 800' 1600'

Horizontal Scale = 400.00
Vertical Scale = 200.00
Vertical Exaggeration = 2x









N

<5,470FT>

<8,410FT>

<4,506FT>

<7,390FT>

<8,723FT>

S

87029
LYDIA B SIMONEAUX ET AL 012
CHEVRON
DRY HOLE-P&A
ELEV_KB : 19

76172
LYDIA B SIMONEAUX ET AL 007
VIBE RESOURCES LLC
OIL-SHUT-IN
ELEV_KB : 21

75831
LYDIA B SIMONEAUX ET AL 015
TEXACO, INC.
GAS-P&A
ELEV_KB : 24

SIMONEAUX CCS INJECTOR NO. 001

238687
VUD;SIMONEAUX FAMILY LAND LLC 005
CASTEX ENERGY, INC.
GAS-P&A
ELEV_KB : 44

68317
SIMONEAUX 013
WM. T. BURTON INDUSTRIES, INC.
DRY HOLE-P&A
ELEV_KB : 25

N. AoR Boundary

N. Plume Extents

10,200'

12,300'

5,000'

7,500'

S. Plume Extents

S. AoR Boundary

PLIOCENE

MIOCENE

UPPER CONFINING ZONE (UCZ)

CRISTELLARIA K

UM2_BASE

BIGENERINA NODOSARIA

UM3_BASE

TOP OF MIDDLE MIOCENE

LOWER CONFINING ZONE (LCZ)

TD: 12,550' MD / TVD

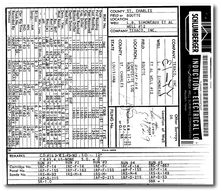
TD: 12,800' MD / TVD
PERFS: 10,881-924' / 11,000-020' MD

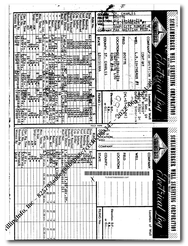
TD: 14,676' MD / TVD
PERFS: 10,945-10,954' MD

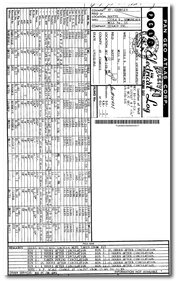
PTD: 9,975' MD / TVD

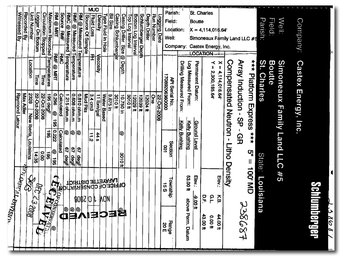
TD: 13,005' MD
TD: 12,600' TVD
PERFS: 11,832-11,840' MD

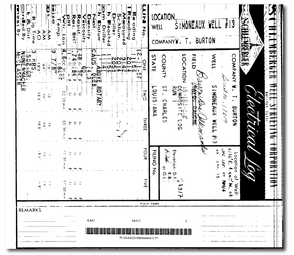
TD: 11,161' MD / TVD

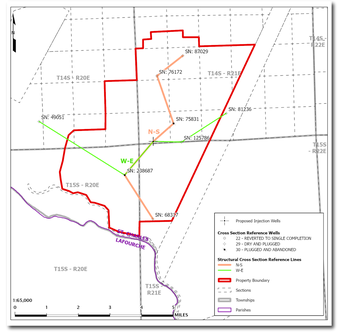












Professional Geoscientist Signature Box

Stephen Pattee, P.G.
Print

Signature

Date: 10/30/2024

N-S Structural Cross Section

Simoneaux CCS Injector No. 001,
No. 002, & No. 003

Lapis Energy

Appendix B-2

By: Mitchell Dan	Drawn by: Alex Houston Approved by: Stephen Pattee	Date: 10/30/2024

LONQUIST SEQUESTRATION LLC

Louisiana Registration No. EF 5937

Well Symbol Definitions

- Proposed Class VI Injection Well No. 001
- Oil Well - Shut In
- Dry Hole - P&A
- Gas Well - P&A

Log Annotation Definitions

- Formation Top Correlations
- Fault
- Confining Zone

Well Log Header Text Explanation

WELL SERIAL NUMBER
WELL NAME + WELL NUMBER
OPERATOR
WELL STATUS CODE
REFERENCE ELEVATION

Notes

Note 1: Distances may not be shown proportionally on the cross section. True distances between wells are labeled at the top of the drawing.

Note 2: The cross section is referenced to sea level.

Note 3: Dashed lines indicate inferred depths.

Horizontal Scale

0' 800' 1600'

Horizontal Scale = 400.00
Vertical Scale = 200.00
Vertical Exaggeration = 2x



Libra CO2 Storage Solutions Project

Site Characterization

Structural Cross Section Reference Map

Lapis Energy (LA Development), LP

St. Charles Parish, Louisiana

Appendix B-3

Drawn by:	Date:	Approved by:
Steven Larcom	11/4/2024	Andy Ellis

PCS: WGS 1984 BLM Zone 15N (US Ft.)

LONQUIST SEQUESTRATION LLC

Louisiana Registration No. EF 5937

- Proposed Injection Wells
- Reference Well Trajectories
- Property Boundary
- Parishes

Cross Section Reference Wells
- Deviated Well SHL
- 22 - REVERTED TO SINGLE COMPLETION
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED

Structural Cross Section Reference Lines
- N-S
- W-E

Reference Well Surface Hole Locations
- Deviated Well SHL
- 3 - PERMIT EXPIRED
- 9 - ACTIVE INJECTION
- 22 - REVERTED TO SINGLE COMPLETION
- 23 - ACT 404 ORPHAN WELL
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED
- 33 - SHUT IN GAS

Reference Well Bottom Hole Locations
- 10 - ACTIVE GAS
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED

Roads
- Primary Road
- Secondary Road
- Local Neighborhood Road, Rural Road, City Street
- Vehicular Trail (4WD)
- Private Road for service vehicles (logging, oil fields, ranches, etc.)
- Ramp
- Service Drive usually along a limited access highway
- Walkway/Pedestrian Trail

Hydrography (Bodies of Water)
- Aqueduct
- Rivers and Streams
- Lakes, Ponds, Reservoirs, and Estuaries

N

87029
76172
49051
75831
81236
Simoneaux CCS Injector Well No. 003
29.810016, -90.37169
Simoneaux CCS Injector Well No. 001
29.810012, -90.371532
125786
Simoneaux CCS Injector Well No. 002
29.810014, -90.371611
Simoneaux Ponds
238687
68317
ST. CHARLES
LAFOURCHE
Baie du Cabanage
Baie des Chactas
Lake Salvador

1:20,000

0 ½ 1 1½ 2 4 Miles

0 2,500 5,000 10,000 Feet

APPENDICES B-4 TO B-10 ARE

PROPRIETARY BUSINESS INFORMATION

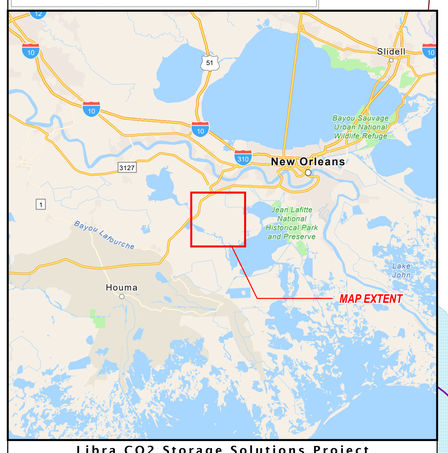
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Professional Geoscientist Signature Box

Stephen Pattee, P.G.
Print

Signature

LOUISIANA BOARD OF PROFESSIONAL GEOSCIENTISTS
STEPHEN L. PATTEE
1001
Est. 2011



Libra CO2 Storage Solutions Project

Site Characterization

Upper Confinement Gross Interval Isochores

Lapis Energy (LA Development), LP

St. Charles Parish, Louisiana

Appendix B-11

Drawn by: Steven Larcom	Date: 11/12/2024	Approved by: Stephen Pattee

PCS: WGS 1984 BLM Zone 15N (US Ft.)

LONQUIST SEQUESTRATION LLC

Louisiana Registration No. EF 5937

- Proposed Injection Wells
- Upper Confinement Gross Isochores (CI = 50')
- Formation Intersect Point for Deviated Wellbore at Base of Upper Confinement (Thickness, Feet)
- Property Boundary
- Licensed 3D Seismic Data Boundary
- Parishes
- Reference Well Trajectories

Reference Well Surface Hole Locations

- Deviated Well SHL
- 3 - PERMIT EXPIRED
- 9 - ACTIVE INJECTION
- 22 - REVERTED TO SINGLE COMPLETION
- 23 - ACT 404 ORPHAN WELL
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED
- 33 - SHUT IN GAS

Reference Well Bottom Hole Locations

- 10 - ACTIVE GAS
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED

Hydrography (Bodies of Water)

- Aqueduct
- Rivers and Streams
- Lakes, Ponds, Reservoirs, and Estuaries

Well Labeling Key

Vertical Wellbore: Serial No. / Formation Thickness (Feet) / Total Depth (MD/TVD)

Deviated Wellbore: Serial No. / Total Depth (MD) / Total Depth (TVD)

N

61848 374' TD: 13,153' MD/TVD
97884 386' TD: 11,316' MD/TVD
117891 366' TD: 11,550' MD/TVD
99536 288' TD: 11,369' MD/TVD
85381 307' TD: 12,477' MD/TVD
207279 201' TD: 11,200' MD/TVD
92455 333' TD: 11,355' MD/TVD
83940 309' TD: 12,493' MD/TVD
96089 295' TD: 11,343' MD/TVD
64758 TD: 12,768' MD TD: 10,131' TVD
271'
64758 BH
174198 309' TD: 11,762' MD/TVD
78858 272' TD: 10,410' MD/TVD
152640 269' TD: 11,803' MD/TVD
197891 291' TD: 11,800' MD/TVD
48783 296' TD: 12,393' MD/TVD
152158 308' TD: 12,025' MD/TVD
194435 296' TD: 10,875' MD/TVD
73869 271' TD: 12,585' MD/TVD
53063 354' TD: 14,100' MD/TVD
54182 274' TD: 12,500' MD/TVD
164763 292' TD: 12,374' MD/TVD
134633 341' TD: 11,055' MD/TVD
108450 347' TD: 12,534' MD/TVD
100790 344' TD: 12,650' MD/TVD
142882 256' TD: 13,372' MD/TVD
167807 291' TD: 15,000' MD/TVD
87029 280' TD: 12,550' MD/TVD
47529 329' TD: 12,385' MD/TVD
68811 275' TD: 12,400' MD/TVD
76172 300' TD: 12,800' MD/TVD
193508 363' TD: 11,308' MD/TVD
168952 TD: 11,265' MD TD: 11,050' TVD
370'
168952 BH
81236 314' TD: 12,750' MD/TVD
236901 BH
237172 TD: 13,062' MD TD: 12,300' TVD
268'
274'
75831 261' TD: 14,676' MD/TVD
236901 TD: 11,455' MD TD: 11,235' TVD
237172 BH
250965 BH
59256 347' TD: 13,525' MD/TVD
49051 186' TD: 14,007' MD/TVD
Simoneaux CCS Injector Well No. 003 29.810016, -90.37169
Simoneaux CCS Injector Well No. 001 29.810012, -90.371532
Simoneaux CCS Injector Well No. 002 29.810014, -90.371611
125786 285' TD: 12,684' MD/TVD
250809 BH
250321 BH
250965 TD: 13,852' MD TD: 12,350' TVD
231'
114452 213' TD: 12,567' MD/TVD
85846 149' TD: 12,091' MD/TVD
250810 BH
238687 BH
Simoneaux Ponds
250810 TD: 12,729' MD TD: 11,680' TVD
250809 TD: 14,221' MD TD: 12,200' TVD
377'
374'
344'
342'
250321 TD: 12,827' MD TD: 11,636' TVD
238687 TD: 13,005' MD TD: 12,600' TVD
60445 TD: 16,000' MD TD: 14,502' TVD
224'
60445 BH
33280 334' TD: 13,044' MD/TVD
251479 TD: 12,539' MD TD: 11,052' TVD
291'
251479 BH
68317 373' TD: 11,161' MD/TVD
ST. CHARLES
LAFOURCHE
19717 372' TD: 8,716' MD/TVD
Baie du Cabanage
Baie des Chactas
Lake Salvador

1:20,000

0 ½ 1 1½ 2 4 Miles

0 2,500 5,000 10,000 Feet

Professional Geoscientist Signature Box

Stephen Pattee, P.G.
Print

Signature



Libra CO2 Storage Solutions Project

Site Characterization

Injection Zone Gross Interval Isochores

Lapis Energy (LA Development), LP

St. Charles Parish, Louisiana

Appendix B-12

Drawn by:	Date:	Approved by:
Steven Larcom	11/12/2024	Stephen Pattee

PCS: WGS 1984 BLM Zone 15N (US Ft.)

LONQUIST SEQUESTRATION LLC

Louisiana Registration No. EF 5937

- Proposed Injection Wells
- Injection Zone Gross Isochores (CI = 200')
- Formation Intersect Point for Deviated Wellbore at UM2 Base (Thickness, Feet)
- Property Boundary
- Licensed 3D Seismic Data Boundary
- Parishes
- Reference Well Trajectories

Reference Well Surface Hole Locations

- Deviated Well SHL
- 3 - PERMIT EXPIRED
- 9 - ACTIVE INJECTION
- 22 - REVERTED TO SINGLE COMPLETION
- 23 - ACT 404 ORPHAN WELL
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED
- 33 - SHUT IN GAS

Reference Well Bottom Hole Locations

- 10 - ACTIVE GAS
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED

Hydrography (Bodies of Water)

- Aqueduct
- Rivers and Streams
- Lakes, Ponds, Reservoirs, and Estuaries

Well Labeling Key

Vertical Wellbore: Serial No. / Formation Thickness (Feet) / Total Depth (MD/TVD)

Deviated Wellbore: Serial No. / Total Depth (MD) / Total Depth (TVD)

1:20,000

0 ½ 1 1½ 2 4 Miles

0 2,500 5,000 10,000 Feet

N

61848
5583'
TD: 13,153' MD/TVD

97884
5616'
TD: 11,316' MD/TVD

99536
5680'
TD: 11,369' MD/TVD

117891
5724'
TD: 11,550' MD/TVD

85381
6035'
TD: 12,477' MD/TVD

207279
5659'
TD: 11,200' MD/TVD

83940
5712'
TD: 12,493' MD/TVD

92455
5721'
TD: 11,355' MD/TVD

96089
5871'
TD: 11,343' MD/TVD

174198
5637'
TD: 11,762' MD/TVD

78858
5800'
TD: 10,410' MD/TVD

152640
5742'
TD: 11,803' MD/TVD

197891
5742'
TD: 11,800' MD/TVD

48783
5877'
TD: 12,393' MD/TVD

152158
5922'
TD: 12,025' MD/TVD

6,287'
64758 BH
64758
TD: 12,768' MD
TD: 10,131' TVD

73869
5742'
TD: 12,585' MD/TVD

53063
5771'
TD: 14,100' MD/TVD

54182
5752'
TD: 12,500' MD/TVD

164763
5922'
TD: 12,374' MD/TVD

134633
6081'
TD: 11,055' MD/TVD

108450
5852'
TD: 12,534' MD/TVD

100790
5805'
TD: 12,650' MD/TVD

142882
5900'
TD: 13,372' MD/TVD

167807
5838'
TD: 15,000' MD/TVD

87029
5950'
TD: 12,550' MD/TVD

180305
6107'
TD: 11,102' MD/TVD

47529
6038'
TD: 12,385' MD/TVD

68811
6027'
TD: 12,400' MD/TVD

76172
5972'
TD: 12,800' MD/TVD

193508
5965'
TD: 11,308' MD/TVD

186913
6104'
TD: 15,711' MD/TVD

168952
TD: 11,265' MD
TD: 11,050' TVD

6,136'
237039 BH
168952 BH

6,187'
236901 BH

237039
TD: 13,057' MD
TD: 11,700' TVD

237172
TD: 13,062' MD
TD: 12,300' TVD

6,242'

75831
6309'
TD: 14,676' MD/TVD

6,438'

236901
TD: 11,455' MD
TD: 11,235' TVD

237172 BH

81236
6525'
TD: 12,750' MD/TVD

49051
5978'
TD: 14,007' MD/TVD

Simoneaux CCS Injector Well No. 003
29.810016, -90.37169

Simoneaux CCS Injector Well No. 001
29.810012, -90.371532

Simoneaux CCS Injector Well No. 002
29.810014, -90.371611

125786
6472'
TD: 12,684' MD/TVD

250809 BH

250321 BH

250810 BH

6,455'

238687 BH

6,414'

6,445'

250809
TD: 14,221' MD
TD: 12,200' TVD

6,583'

250810
TD: 12,729' MD
TD: 11,680' TVD

250321
TD: 12,827' MD
TD: 11,636' TVD

238687
TD: 13,005' MD
TD: 12,600' TVD

33280
6337'
TD: 13,044' MD/TVD

Simoneaux Ponds

250965 BH

59256
6735'
TD: 13,525' MD/TVD

6,890'

114452
6586'
TD: 12,567' MD/TVD

250965
TD: 13,852' MD
TD: 12,350' TVD

85846
6240'
TD: 12,091' MD/TVD

6,695'
60445 BH

60445
TD: 16,000' MD
TD: 14,502' TVD

251479
TD: 12,539' MD
TD: 11,052' TVD

251479 BH

6,899'

ST. CHARLES
LAFOURCHE

Baie du Cabanage

Baie des Chactas

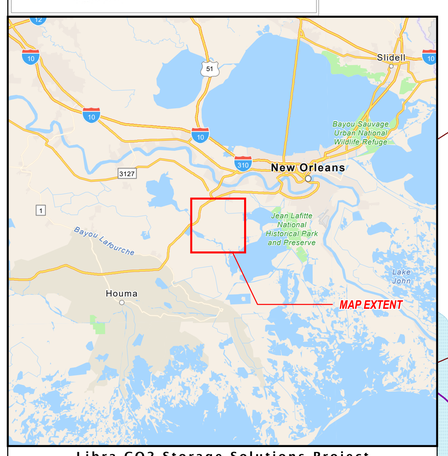
Lake Salvador

Professional Geoscientist Signature Box

Stephen Pattee, P.G.
Print

Signature

LOUISIANA BOARD OF PROFESSIONAL GEOSCIENTISTS
STEPHEN L. PATTEE
1001
Est. 2011



Libra CO2 Storage Solutions Project

Site Characterization

Lower Confinement Gross Interval Isochores

Lapis Energy (LA Development), LP

St. Charles Parish, Louisiana

Appendix B-13

Drawn by:	Date:	Approved by:
Steven Larcom	11/12/2024	Stephen Pattee

PCS: WGS 1984 BLM Zone 15N (US Ft.)

LONQUIST SEQUESTRATION LLC

Louisiana Registration No. EF 5937

- Proposed Injection Wells
- Lower Confinement Gross Isochores (CI = 100')
- Formation Intersect Point for Deviated Wellbore at Base of Lower Confinement (Thickness, Feet)
- Property Boundary
- Licensed 3D Seismic Data Boundary
- Parishes
- Reference Well Trajectories

Reference Well Surface Hole Locations

- Deviated Well SHL
- 3 - PERMIT EXPIRED
- 9 - ACTIVE INJECTION
- 22 - REVERTED TO SINGLE COMPLETION
- 23 - ACT 404 ORPHAN WELL
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED
- 33 - SHUT IN GAS

Reference Well Bottom Hole Locations

- 10 - ACTIVE GAS
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED

Hydrography (Bodies of Water)

- Aqueduct
- Rivers and Streams
- Lakes, Ponds, Reservoirs, and Estuaries

Well Labeling Key

Vertical Wellbore
Serial No.
Formation Thickness (Feet)
Total Depth (MD/TVD)

Deviated Wellbore
Serial No.
Total Depth (MD)
Total Depth (TVD)

61848
169'
TD: 13,153' MD/TVD

97884
231'
TD: 11,316' MD/TVD

99536
188'
TD: 11,369' MD/TVD

117891
188'
TD: 11,550' MD/TVD

85381
491'
TD: 12,477' MD/TVD

207279
206'
TD: 11,200' MD/TVD

92455
197'
TD: 11,355' MD/TVD

83940
220'
TD: 12,493' MD/TVD

196013
234'
TD: 16,020' MD/TVD

96089
138'
TD: 11,343' MD/TVD

174198
331'
TD: 11,762' MD/TVD

78858
223'
TD: 10,410' MD/TVD

64758
TD: 12,768' MD
TD: 10,131' TVD

293'
64758 BH

152640
265'
TD: 11,803' MD/TVD

197891
269'
TD: 11,800' MD/TVD

48783
224'
TD: 12,393' MD/TVD

152158
235'
TD: 12,025' MD/TVD

194435
235'
TD: 10,875' MD/TVD

73869
238'
TD: 12,585' MD/TVD

53063
253'
TD: 14,100' MD/TVD

54182
244'
TD: 12,500' MD/TVD

164763
239'
TD: 12,374' MD/TVD

134633
260'
TD: 11,055' MD/TVD

108450
217'
TD: 12,534' MD/TVD

100790
244'
TD: 12,650' MD/TVD

142882
251'
TD: 13,372' MD/TVD

167807
283'
TD: 15,000' MD/TVD

87029
264'
TD: 12,550' MD/TVD

180305
331'
TD: 11,102' MD/TVD

47529
314'
TD: 12,385' MD/TVD

68811
352'
TD: 12,400' MD/TVD

76172
298'
TD: 12,800' MD/TVD

193508
291'
TD: 11,308' MD/TVD

186913
313'
TD: 15,711' MD/TVD

168952
TD: 11,265' MD
TD: 11,050' TVD

316'
299'
237039 BH
168952 BH

236901 BH
309'
237172
TD: 13,062' MD
TD: 12,300' TVD

75831
323'
TD: 14,676' MD/TVD

236901
TD: 11,455' MD
TD: 14,235' TVD

237039
TD: 13,057' MD
TD: 11,700' TVD

237172 BH
276'

81236
381'
TD: 12,750' MD/TVD

280565 BH
438'

59256
450'
TD: 13,525' MD/TVD

49051
265'
TD: 14,007' MD/TVD

Simoneaux CCS Injector Well No. 003
29.810016, -90.37169

Simoneaux CCS Injector Well No. 001
29.810012, -90.371532

Simoneaux CCS Injector Well No. 002
29.810014, -90.371611

125786
374'
TD: 12,684' MD/TVD

250809 BH
359'

250321 BH
511'

250965
TD: 13,852' MD
TD: 12,350' TVD

114452
624'
TD: 12,567' MD/TVD

85846
675'
TD: 12,091' MD/TVD

250810 BH
424'

238687 BH
484'

250810
TD: 12,729' MD
TD: 11,680' TVD

250809
TD: 14,221' MD
TD: 12,200' TVD

250321
TD: 12,827' MD
TD: 11,636' TVD

238687
TD: 13,005' MD
TD: 12,600' TVD

565'
60445 BH

60445
TD: 16,000' MD
TD: 14,502' TVD

33280
712'
TD: 13,044' MD/TVD

251479
TD: 12,539' MD
TD: 11,052' TVD

251479 BH
552'

68317
289'
TD: 11,161' MD/TVD

Simoneaux Ponds

ST. CHARLES
LAFOURCHE

Baie du Cabanage

Baie des Chactas

Lake Salvador

1:20,000

0 ½ 1 1½ 2 4 Miles

0 2,500 5,000 10,000 Feet

Professional Geoscientist Signature Box

Stephen Pattee, P.G.
Print

Signature

LOUISIANA BOARD OF PROFESSIONAL GEOSCIENTISTS
STEPHEN L. PATTEE
1001
Est. 2011



Libra CO2 Storage Solutions Project

Site Characterization

Injection Zone Net Sand Isochores

Lapis Energy (LA Development), LP

St. Charles Parish, Louisiana

Appendix B-15

Drawn by:	Date:	Approved by:
Steven Larcom	11/12/2024	Stephen Pattee

PCS: WGS 1984 BLM Zone 15N (US Ft.)

LONQUIST SEQUESTRATION LLC

Louisiana Registration No. EF 5937

- Proposed Injection Wells
- Injection Zone Net Sand Isochores (CI = 200')
- Formation Intersect Point for Deviated Wellbore at UM2 Base (Thickness, Feet)
- Property Boundary
- Licensed 3D Seismic Data Boundary
- Parishes
- Reference Well Trajectories

Reference Well Surface Hole Locations

- Deviated Well SHL
- 3 - PERMIT EXPIRED
- 9 - ACTIVE INJECTION
- 22 - REVERTED TO SINGLE COMPLETION
- 23 - ACT 404 ORPHAN WELL
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED
- 33 - SHUT IN GAS

Reference Well Bottom Hole Locations

- 10 - ACTIVE GAS
- 29 - DRY AND PLUGGED
- 30 - PLUGGED AND ABANDONED

Hydrography (Bodies of Water)

- Aqueduct
- Rivers and Streams
- Lakes, Ponds, Reservoirs, and Estuaries

Well Labeling Key

Vertical Wellbore: Serial No. / Formation Thickness (Feet) / Total Depth (MD/TVD)

Deviated Wellbore: Serial No. / Total Depth (MD) / Total Depth (TVD)

61848
3364'
TD: 13,153' MD/TVD

97884
3539'
TD: 11,316' MD/TVD

99536
3271'
TD: 11,369' MD/TVD

117891
3404'
TD: 11,550' MD/TVD

85381
3688'
TD: 12,477' MD/TVD

207279
3861'
TD: 11,200' MD/TVD

83940
3220'
TD: 12,493' MD/TVD

92455
3681'
TD: 11,355' MD/TVD

96089
3455'
TD: 11,343' MD/TVD

64758
TD: 12,768' MD
TD: 10,131' TVD

3478'

64758 BH

174198
3709'
TD: 11,762' MD/TVD

78858
3769'
TD: 10,410' MD/TVD

152640
4002'
TD: 11,803' MD/TVD

197891
3602'
TD: 11,800' MD/TVD

48783
3752'
TD: 12,393' MD/TVD

73869
3900'
TD: 12,585' MD/TVD

134633
3565'
TD: 11,055' MD/TVD

53063
3482'
TD: 14,100' MD/TVD

54182
4248'
TD: 12,500' MD/TVD

164763
3661'
TD: 12,374' MD/TVD

108450
3811'
TD: 12,534' MD/TVD

100790
3686'
TD: 12,650' MD/TVD

87029
4008'
TD: 12,550' MD/TVD

180305
3591'
TD: 11,102' MD/TVD

37529
3518'
TD: 12,385' MD/TVD

68811
4337'
TD: 12,400' MD/TVD

76172
3740'
TD: 12,800' MD/TVD

193508
3735'
TD: 11,308' MD/TVD

186913
3754'
TD: 15,711' MD/TVD

168952
TD: 11,265' MD
TD: 11,050' TVD

4035'

237039 BH

168952 BH

236901 BH

3424'

237039
TD: 13,057' MD
TD: 11,700' TVD

75831
3830'
TD: 14,676' MD/TVD

3514'

237172
TD: 13,062' MD
TD: 12,300' TVD

3754'

236901
TD: 11,455' MD
TD: 11,235' TVD

237172 BH

81236
4231'
TD: 12,750' MD/TVD

250965 BH

59256
3675'
TD: 13,525' MD/TVD

4104'

114452
3571'
TD: 12,567' MD/TVD

250965
TD: 13,852' MD
TD: 12,350' TVD

85846
3823'
TD: 12,091' MD/TVD

49051
3829'
TD: 14,007' MD/TVD

Simoneaux CCS Injector Well No. 003
29.810016, -90.37169

Simoneaux CCS Injector Well No. 001
29.810012, -90.371532

Simoneaux CCS Injector Well No. 002
29.810014, -90.371611

125786
4017'
TD: 12,684' MD/TVD

250809 BH

250321 BH

250810 BH

238687 BH

3432'

3918'

2883'

250810
TD: 12,729' MD
TD: 11,680' TVD

250809
TD: 14,221' MD
TD: 12,200' TVD

3636'

238687
TD: 13,005' MD
TD: 12,600' TVD

250321
TD: 12,827' MD
TD: 11,636' TVD

Simoneaux Ponds

4070'

60445 BH

60445
TD: 16,000' MD
TD: 14,502' TVD

251479
TD: 12,539' MD
TD: 11,052' TVD

251479 BH

3952'

ST. CHARLES
LAFOURCHE

Baie du Cabanage

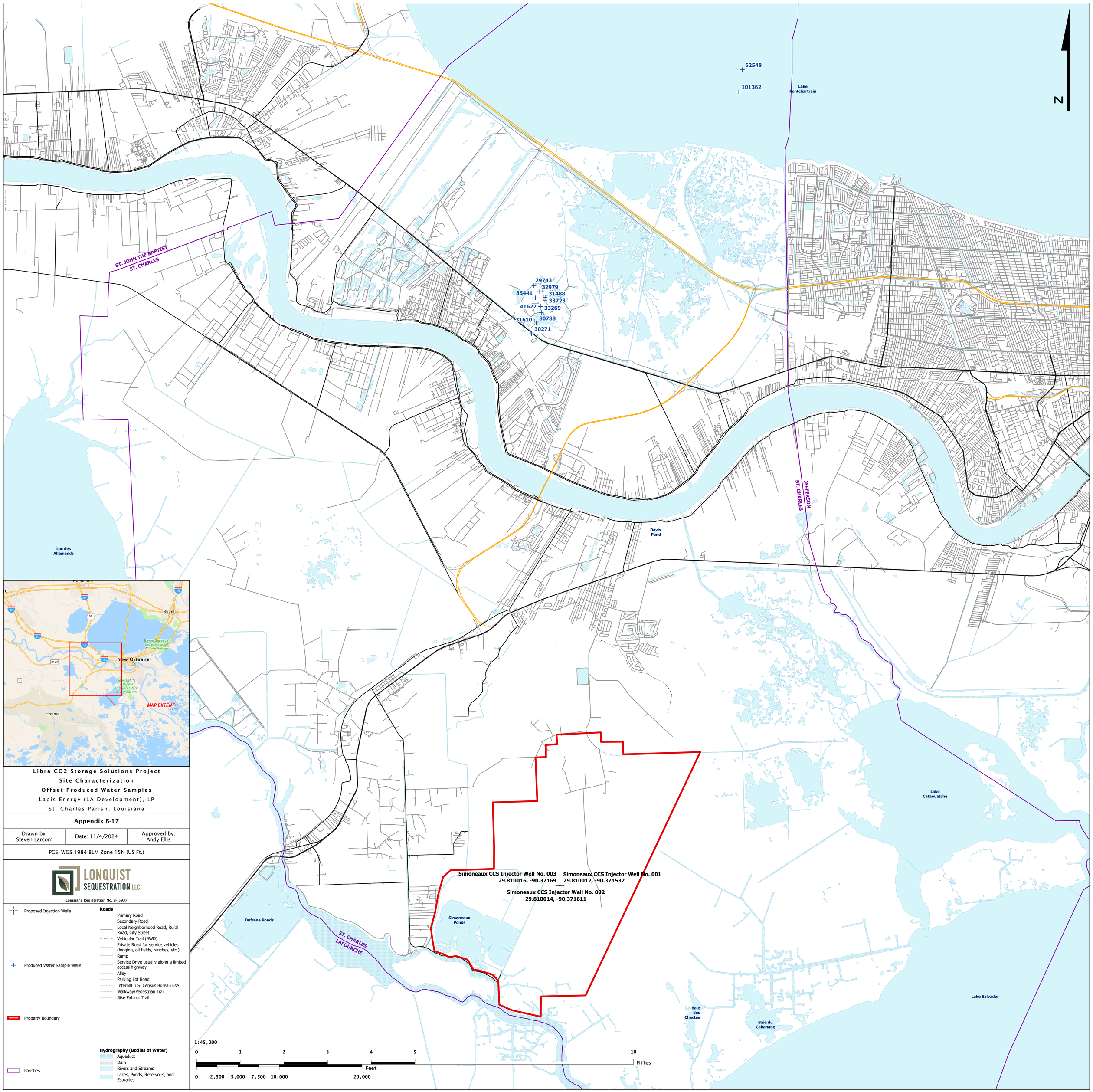
Baie des Chactas

Lake Salvador

1:20,000

0 ½ 1 1½ 2 4 Miles

0 2,500 5,000 10,000 Feet



Libra CO2 Storage Solutions Project

Site Characterization

Offset Produced Water Samples

Lapis Energy (LA Development), LP

St. Charles Parish, Louisiana

Appendix B-17

Drawn by: Steven Larcom	Date: 11/4/2024	Approved by: Andy Ellis

PCS: WGS 1984 BLM Zone 15N (US Ft.)

LONQUIST SEQUESTRATION LLC

Louisiana Registration No. EF 5937

- Proposed Injection Wells
- Produced Water Sample Wells
- Property Boundary
- Parishes

Roads

- Primary Road
- Secondary Road
- Local Neighborhood Road, Rural Road, City Street
- Vehicular Trail (4WD)
- Private Road for service vehicles (logging, oil fields, ranches, etc.)
- Ramp
- Service Drive usually along a limited access highway
- Alley
- Parking Lot Road
- Internal U.S. Census Bureau use
- Walkway/Pedestrian Trail
- Bike Path or Trail

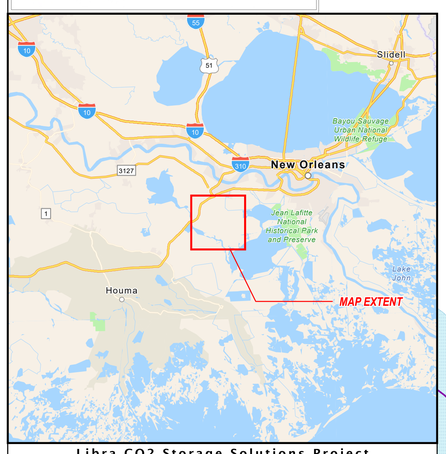
Hydrography (Bodies of Water)

- Aqueduct
- Dam
- Rivers and Streams
- Lakes, Ponds, Reservoirs, and Estuaries

Professional Geoscientist Signature Box

Stephen Pattee, P.G.
Print

Signature



Libra CO2 Storage Solutions Project
Site Characterization
USDW Structure and Determination
Lapis Energy (LA Development), LP
St. Charles Parish, Louisiana

Appendix B-20

Drawn by:	Date:	Approved by:
Steven Larcom	11/4/2024	Andy Ellis

PCS: WGS 1984 BLM Zone 15N (US Ft.)

LONQUIST SEQUESTRATION LLC
Louisiana Registration No. EF 5937

- Proposed Injection Wells
- Property Boundary
- Parishes
- Wells Used for USDW Determination (Subsea feet)
- USDW Base Structure Contours (Subsea, CI = 50')

USDW Cross Section Reference Lines
- S-N
- W-E

Hydrography (Bodies of Water)
- Aqueduct
- Rivers and Streams
- Lakes, Ponds, Reservoirs, and Estuaries

SN: 61848
-997'

SN: 64758
-1,127'

SN: 48783
-1,117'

SN: 28543
-1,002'

SN: 50764
-1,085'

SN: 48599
-1,172'

SN: 81236
-1,199'

SN: 49051
-1,158'

Simoneaux CCS Injector Well No. 003
29.810016, -90.37169

Simoneaux CCS Injector Well No. 001
29.810012, -90.371532

Simoneaux CCS Injector Well No. 002
29.810014, -90.371611

SN: 60445
-1,097'

SN: 115365
-1,026'

SN: 95696
-1,046'

SN: 114248
-1,064'

SN: 114087
-1,067'

SN: 114215
-1,036'

SN: 60108
-1,009'

Simoneaux Ponds

ST. CHARLES
LAFOURCHE

Baie du Cabanage

Baie des Chactas

Lake Salvador

1:20,000

0 ½ 1 1½ 2 4 Miles

0 2,500 5,000 10,000 Feet

APPENDICES B-21 TO B-23 ARE

PROPRIETARY BUSINESS INFORMATION

THIS DATA HAS BEEN REDACTED.