Table 2-1

Local Geologic Maps and Cross Sections

(Contained in Appendix A

Description	Figure No. *
Base Sparta - USDW Structure Map	A.1
Top Midway Structure Map	A.2
Midway Isopach Map	A.3
Top Selma Chalk Structure Map	A.4
Top Annona Sand Structure Map	A.5
Annona Sand Net Porosity Isolith Map	A.6
Top Upper Tuscaloosa Structure Map	A.7
Base Upper Tuscaloosa Structure Map	A.8
Upper Tuscaloosa Isopach	A.9
Top Paluxy Structure	A.10
2D Seismic Structure - Top Ferry Lake Anhydrite	A.11
2D Seismic Structure - Top Selma Chalk	A.12
Stratigraphic Cross Section "A"	A.13
Structural Cross Section "A"	A.14
Structural Cross Section "B" and Strategic Test Well Schematic / Test Exhibit	A.15
Top Lower Cretaceous Structure	A.16
Base Paluxy P-3 Sand Structure	A.17
Injection Interval Isopach	A.18

2D Seismic Line Montage Exhibit (*Submitted Business Confidential)*	A.19
Annona Sand AoR and sCO2 Saturation - Expansion Over Time	A.20
UT - Paluxy AoR and sCO2 Saturation - Expansion Over Time	A.21
Paluxy P-2 Sand - Net Sand Isolith	A.22
Paluxy P-3 Sand - Net Sand Isolith	A.23

Table 2-2
Confining Zone Properties of the
Midway Shale, Austin Chalk, and Paluxy Formations

Top Depth (feet)	Bottom Depth (feet)	Formation	Lithology	Dry Helium Porosity (% of Bulk Volume)	Pressure Decay Permeability (mD)
Primary Upper Confining Zone					
3,609.20	3,609.45	Midway Group	Silty Mudstone	23.2	0.000046
3,619.00	3,619.25	Midway Group	Silty Mudstone	24.3	0.0000977
3,627.50	3,627.75	Midway Group	Silty Mudstone	22.9	0.0000262
Impermeable Zones					
4,693.00	4,693.25	Austin Chalk Equivalent	Argillaceous Chalk	12.8	0.0000403
Lower Confining Zones					
5,900.45	5,900.80	Paluxy Formation	Argillaceous Sandstone	9.4	n/a
5,910.05	5,910.35	Paluxy Formation	Silty Mudstone	10.5	0.000024
5,920.55	5,920.85	Paluxy Formation	Argillaceous Sandstone	9.0	0.0000048
5,928.55	5,928.85	Paluxy Formation	Argillaceous Sandstone	9.2	0.0000136

Table 2-3
Mineralogy of the
Midway Shale, Austin Chalk and Paluxy
Confining Zones

Top Depth (feet)	Bottom Depth (feet)	Formation	Lithology	Mineralogy from XRD																
				Tectosilicates			Carbonates			Phyllosilicates				Additional Minerals			Total			
				Quartz	K-Feldspar	Plagioclase	Calcite	Ankerite	Siderite	Chlorite	Kaolinite	Illite/Mica	Mixed I/S	Pyrite	Hematite	Barite	Tectosilicates	Carbonates	Phyllosilicates	Additional
				Weight %																
Upper Primary Confining Zone																				
3,609.20	3,609.45	Midway Group	Silty Mudstone	27.1	2.6	6.5	0	0	0	7.8	5.4	18	32.6	Trace	0	0	36.2	0	63.8	0
3,619.00	3,619.25	Midway Group	Silty Mudstone	26.7	1.7	7.2	0	0	0	8.8	5.5	17.3	32.2	0.6	0	0	35.6	0	63.8	0.6
3,627.50	3,627.75	Midway Group	Silty Mudstone	26.3	1.7	6.1	0	0	0	7.6	5.4	22.4	30	0.5	0	0	34.1	0	65.4	0.5
Impermeable Zones																				
4,693.00	4,693.25	Austin Chalk Equivalent	Argillaceous Chalk	31.2	4.6	3.8	6	0	3.1	0	15.2	12.4	22.1	1.6	0	0	39.6	9.1	49.7	1.6
Lower Confining Zones																				
5,900.45	5,900.80	Paluxy Formation	Argillaceous Sandstone	39.3	2.3	6.4	3.3	3	2.6	3	4.2	24.5	0.2	0	6.2	0	48	8.9	36.9	6.2
5,910.05	5,910.35	Paluxy Formation	Silty Mudstone	23.1	1	4.1	2.2	1.8	0.7	2	6.7	45.3	13.1	0	0	0	28.2	4.7	67.1	0
5,920.55	5,920.85	Paluxy Formation	Argillaceous Sandstone	44.2	1	3	11	0	0.8	1.6	1.7	27.6	5	0	4.1	0	48.2	11.8	35.9	4.1
5,928.55	5,928.85	Paluxy Formation	Argillaceous Sandstone	46.9	2.3	4.4	1.9	0.5	0	3.1	3.6	22.7	6	0	8.6	0	53.6	2.4	35.4	8.6

Table 2-4
XRF Composition of the Midway Shale, Austin Chalk, and Paluxy Confining Zones and the Annona Sand Injection Zone

Depth (ft)	Formation	Lithology	Major Element Oxides												
			SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P2O5	SO3	Cl	Total
			%	%	%	%	%	%	%	%	%	%	%	%	%
Primary Upper Confining Zone															
3,609.2	Midway Group	Silty Mudstone	59.53	0.74	16.37	5.32	0.09	2.23	0.32	4.55	2.51	0.07	0.50	2.55	94.79
3,619.0	Midway Group	Silty Mudstone	63.88	0.75	17.86	5.83	0.20	2.42	0.36	3.78	2.69	0.08	0.57	1.92	100.35
3,627.5	Midway Group	Silty Mudstone	56.14	0.68	15.42	5.49	0.27	2.21	0.41	5.89	2.50	0.06	0.54	4.24	93.86
Injection Zone 1 - Annona Formation															
4,154.0	Annona Sand	Sandstone	67.22	0.73	6.59	1.88	0.01	1.06	2.04	2.36	0.87	0.14	2.88	0.25	86.03
Impermeable Zones															
4,693.0	Austin Chalk Equivalent	Argillaceous Chalk	57.13	1.22	21.35	4.94	0.02	1.00	3.13	1.07	2.67	0.11	1.30	0.06	94.01
Lower Confining Zones															
5,900.5	Paluxy Formation	Argillaceous Sandstone	59.45	0.97	17.08	5.90	0.05	1.57	3.74	1.26	2.70	0.13	0.01	0.45	93.29
5,910.1	Paluxy Formation	Silty Mudstone	53.52	1.07	21.41	3.33	0.03	1.78	2.21	1.30	4.23	0.12	0.07	0.51	89.58
5,920.6	Paluxy Formation	Argillaceous Sandstone	55.29	0.82	14.45	4.16	0.05	1.12	5.98	1.59	2.59	0.20	0.02	0.73	87.01
5,928.6	Paluxy Formation	Argillaceous Sandstone	59.92	0.83	16.04	5.86	0.02	1.06	1.51	1.72	2.77	0.11	0.02	0.90	90.77

Table 2-5
Laboratory analysis of permeability and porosity of Injection Zone 1 – Annona Sand

Formation	Injection Zone 1 - Annona Sand				
	Depth (feet)	Net Confining Stress (psi)	Permeability (air) mD	Porosity (%)	Sample Type
Annona Sand : Upper Lobe	4,154.0	1500	125	28.8	RSWC
Annona Sand : Upper Lobe	4,160.0	1500	86.7	26.8	RSWC
Annona Sand : Lower Lobe	4,177.0	1500	66.9	27.9	RSWC

Average Permeability (air), mD: 92.9
Average Porosity (%): 27.9

Table 2-6
Mineralogy of the Injection Zones
(Annona and Upper Tuscoloosa Formations)

Top Depth (feet)	Formation	Lithology	Mineralogy from XRD																		
			Tectosilicates			Carbonates			Phyllosilicates					Additional Minerals				Total			
			Quartz	K-Feldspar	Plagioclase	Calcite	Ankerite	Siderite	Chlorite	Dickite	Illite/Mica	Nontronite	Mixed I/S	Pyrite	Anatase	Dawsonite	Barite	Tectosilicates	Carbonates	Phyllosilicates	Additional
			Weight %																		
Injection Zone 1 - Annona Formation																					
4,154	Annona Sand	Sandstone	80.3	1.4	2	1.9	1.7	0.6	1	3	2.9	0	3.6	0.6	1	0	0	83.7	4.2	10.5	1.6
4,177	Annona Sand	Sandstone	85	3.1	3.6	1.2	0	0	2.2	0.7	0	0	3.5	0	0.7	0	0	91.7	1.2	6.4	0.7
Injection Zone 2 - Upper Tuscaloosa Formation																					
4,915	Upper Tuscaloosa	Sandstone	91.9	1.6	Tr	Tr	1.5	Tr	0	2.9	2.1	Tr	Tr	0	0	Tr	Tr	93.5	1.5	5	Tr
5,056	Upper Tuscaloosa	Sandstone	72.7	1.7	1.7	0.5	0	5.1	1.1	8.7	6.7	0	1.8	0	0	Tr	0	76.1	5.6	18.3	0
5,070	Upper Tuscaloosa	Sandstone	85.9	1.6	0.8	0	2.2	0.5	0	6.6	1.9	Tr	0.5	0	0	Tr	0	88.3	2.7	9	0
5,078	Upper Tuscaloosa	Sandstone	86.5	1.6	Tr	0.5	1.9	0.5	0	6.2	2.8	Tr	Tr	0	0	Tr	Tr	88.1	2.9	9	Tr
5,143	Upper Tuscaloosa	Sandstone	81.3	2.5	Tr	Tr	3.5	2.3	0	6.9	2.6	0.9	Tr	0	0	Tr	Tr	83.8	5.8	10.4	Tr
5,158	Upper Tuscaloosa	Sandstone	62.6	1.6	0	0.3	0.2	0.8	2.3	17.4	9.9	0	3.2	1.7	0	Tr	0	64.2	1.3	32.8	1.7
5,175	Upper Tuscaloosa	Sandstone	67	2.3	1.6	0	1.5	2.9	2.6	9.1	10.7	0	2.3	0	0	Tr	0	70.9	4.4	24.7	0
5,183	Upper Tuscaloosa	Sandstone	88.1	0.8	Tr	Tr	2.1	Tr	0	7.7	1.3	Tr	Tr	0	0	0	Tr	88.9	2.1	9	Tr
5,190	Upper Tuscaloosa	Sandstone	83.4	1.8	0	0	9.2	0	1	3.2	1.4	Tr	0	0	0	0	0	85.2	9.2	5.6	0
5,252	Upper Tuscaloosa	Sandstone	76.6	4	1.1	0	2.7	9.4	1.8	3.9	0.5	0	0	0	0	Tr	0	81.7	12.1	6.2	0
5,299	Upper Tuscaloosa	Sandstone	88.2	1.6	Tr	Tr	1.8	Tr	0	2.8	3.9	1	Tr	0	0.7	Tr	Tr	89.8	1.8	7.7	0.7
5,314	Upper Tuscaloosa	Sandstone	91.8	0.4	0.7	0	2.3	0	0	2.2	2.6	Tr	0	0	0	Tr	0	92.9	2.3	4.8	0
5,316	Upper Tuscaloosa	Sandstone	77.6	2.3	0	0	2.2	11.3	0	1.7	3.1	1.8	Tr	0	0	Tr	Tr	79.9	13.5	6.6	Tr
5,336	Upper Tuscaloosa	Sandstone	86.8	1.2	0.9	0	0	2.5	0.4	3.8	4.2	Tr	0	0	0.2	Tr	0	88.9	2.5	8.4	0.2
5,341	Upper Tuscaloosa	Sandstone	85.2	3.4	0.4	0	0	3.5	0	4.3	3.2	Tr	0	0	0	Tr	0	89	3.5	7.5	0
5,421	Upper Tuscaloosa	Sandstone	71.9	2	Tr	Tr	0.6	7.5	0	9.5	5.3	0	1.9	0	1.3	0	Tr	73.9	8.1	16.7	1.3
5,449	Upper Tuscaloosa	Sandstone	95	1.6	0.8	0	0	0	0	1.5	0.7	0	0	0	0.4	Tr	0	97.4	0	2.2	0.4
5,453	Upper Tuscaloosa	Sandstone	93.1	1.6	Tr	Tr	Tr	0.8	0	1.5	1.5	Tr	Tr	Tr	1.5	0	Tr	94.7	0.8	3	1.5
5,482	Upper Tuscaloosa	Sandstone	71.8	1.7	0.2	0	0	0.8	1	13.1	3.6	0	4.8	2	1	0	0	73.7	0.8	22.5	3

Table 2-7
Laboratory analysis of permeability and porosity of
Injection Zone 2 – Upper Tuscaloosa Formation – Conventional Core Analyses Results from Stratum Reservoir

11-29-21

STRATUM RESERVOIR

SUMMARY OF CONVENTIONAL CORE ANALYSES RESULTS

Convection Dried at 140°F

Strategic Biofuels LLC
Louisiana Green Fuels Well 001

Caldwell Parish, Louisiana
File: HH-108056

Core Number	Sample Number	Sample Depth, feet	Net Confining Stress, psi	Permeability, millidarcys		Porosity, percent		Grain Density, gm/cc
				to Air	Klinkenberg	Ambient	NCS	
3	3-1H	4911.50	1900	110.	98.2	17.4	17.2	2.67
3	3-4H	4914.65	1900	94.0	83.0	19.6	19.4	2.67
3	3-5H	4915.30	1900	139.	125.	20.2	20.0	2.67
3	3-6H-1	4916.50	1900	207.	189.	20.5	20.3	2.68
3	3-7H	4917.50	1900	148.	133.	21.0	20.9	2.67
3	3-8H-1	4918.40	1900	42.2	35.8	20.1	19.9	2.72
3	3-14H	4924.50	1900	2.63	1.93	16.5	16.3	2.66
3	3-15H	4925.50	1900	4.79	3.61	17.1	16.9	2.69
3	3-17H	4927.50	1900	23.5	19.3		20.9	2.75
3	3-18H	4928.50	1900	0.021	0.0088	7.6	7.4	2.70
3	3-19H	4929.50	1900	9.15	7.12	18.4	18.2	2.73
3	3-20H	4930.50	1900	8.51	6.59		21.5	2.67
3	3-21H	4931.50	1900	1.45	1.05	17.1	16.9	2.68
3	3-22H	4932.50	1900	41.4	35.1		21.2	2.68
3	3-23H	4933.50	1900	0.476	0.342	15.1	14.9	2.71
3	3-24H	4934.50	1900	2.53	1.86	16.8	16.6	2.68
3	3-25H	4935.50	1900	14.0	11.1		21.2	2.66
3	3-26H	4936.50	1900	3.65	2.71	18.2	18.0	2.70
3	3-27H	4937.50	1900	13.7	10.9	19.5	19.2	2.72
4	4-1H	5250.50	2000	3.79	2.82		21.7	2.80
4	4-2H-1	5251.50	2000	27.3	22.6	21.8	21.6	2.73
4	4-3H	5252.35	2000	20.1	16.3		19.7	2.79
4	4-13H	5262.50	2000	9.52	7.42	15.0	14.8	2.65
4	4-14H	5263.50	2000	781.	739.		22.6	2.65
4	4-15H	5264.50	2000	1080.	1020.	22.7	22.5	2.67
			Average values:	**111.5**	**103.**	**18.0**	**18.8**	**2.70**

\+ Indicates the sample is fractured and unsuitable for this type of analysis
(pf) Partial fracture

Table 2 -8
Laboratory analysis of permeability and porosity of Injection Zone 2 – Upper Tuscaloosa Formation – Rotary Sidewall Core Analyses Results from Stratum Reservoir

STRATUM RESERVOIR

11-15-21

SUMMARY OF ROTARY CORE ANALYSES RESULTS

Convection Dried at 140°F

Strategic Biofuels LLC
Louisiana Green Fuels Well 001

Caldwell Parish, Louisiana
File: HH-108056

Core Number	Sample Number	Sample Depth, feet	Net Confining Stress, psi	Permeability, millidarcys		Porosity, percent		Grain Density, gm/cc	Lithological Descriptions
				to Air	Klinkenberg	Ambient	NCS		
Upper Tuscaloosa									
22	1-4R	4915.0	1900	673.	635.		24.3	2.65	Ss vfg-mg
21	1-5R	5056.0	1900	1.95	1.52	17.0	16.8	2.68	Ss vfg-mg sslty
20	1-6R	5070.0	1900	694.	655.0		27.0	2.65	Ss vfg-mg
19	1-7R	5078.0	1900	633.	596.		25.7	2.66	Ss vfg-mg
18	1-8R	5143.0	1900	129.	115.		24.6	2.68	Ss vfg-mg
17	1-9R	5158.0	1900	0.0078	0.0026	5.7	5.5	2.67	Ss vfg-fg slty lams org strks
16	1-10R	5175.0	2000	6.68	5.32	14.2	14.0	2.76	Ss vfg-fg nod pfrac
15	1-11R	5183.0	2000	232.	213.		24.5	2.65	Ss vfg-mg
14	1-12R	5190.0	2000	502.	470.		21.8	2.67	Ss vfg-mg
13	1-13R	5252.0	2000	71.2	62.4		22.2	2.66	Ss vfg-fg
12	1-14R	5299.0	2000	294.	271.		21.9	2.66	Ss vfg-mg
11	1-15R	5314.0	2000	425.	396.		26.6	2.66	Ss vfg-mg
10	1-16R	5316.0	2000	718.	678.		25.8	2.75	Ss vfg-mg
9	1-17R	5336.0	2000	505.	473.		25.5	2.74	Ss vfg-mg
8	1-18R	5341.0	2000	403.	376.		24.3	2.67	Ss vfg-mg
7	1-19R	5421.0	2000	16.2	13.4		22.3	2.74	Ss vfg-mg
6	1-20R	5449.0	2000	604.	568.		22.8	2.64	Ss vfg-cg
5	1-21R	5453.0	2000	627.	590.	23.9	23.7	2.66	Ss vfg-cg
4	1-22R	5468.0	2000	3.18	2.40	14.6	14.4	2.67	Ss vfg-fg
3	1-23R	5482.0	2000	0.398	0.279	18.6	18.4	2.66	Ss fg-mg spyr
Averages - Upper Tuscaloosa				**326.9**	**306.1**		**21.6**	**2.68**	
Lower Tuscaloosa									
2	1-24R	5599.0	2000	1.25	0.971	18.4	18.1	2.67	Ss vfg-mg lams
1	1-25R	5608.0	2000	2.92	2.31	19.8	19.5	2.70	Ss vfg-mg
Averages - Lower Tuscaloosa				**2.1**	**1.6**		**18.8**	**2.68**	

TABLE 2-9

Laboratory Rock Mechanical Testing Samples
Upper Tuscaloosa Injection Zone

Sample Number	Core Depth (feet)*	Porosity (%)	Measurements Performed
RM01	4,915.7	20.54	- Circumferential Velocity Anisotropy (Vp, Vs) - Stress dependent Permeability - Biot – Uniaxial Pore Volume Expansion (UPVE) - Multi-Stage Triaxial Test (MST) - Supercritical CO_2 immiscible displacement with preliminary and post-test rock strength measurements
RM02	4,918.0	22.96	
RM04	4,930.0	23.39	
RM05	5,263.5	23.40	

**depth relative to rig kelly bushing depth*

TABLE 2-10

Tabulation of Geomechanical Rock Properties for Port of Columbia Site

Parameter	Value/Range	Data Source
Vertical Total Stress ***(Sv)***	0.95 psi/ft	Estimated using bulk density measurements in lab- referenced to top ot the Tuscaloosa
Minimum horizontal stress ***(Sh_{min})***	0.55 - 0.63 psi/ft	Estimated using Eatons (1969) method and lab measured Biot coefficients.
Maximum horizontal stress ***(Sh_{max})***	0.80 psi/ft	Estimated by avaerging the total vertical and minimum horizontal stresses.
Young's Modulus ***(E)***	1.75 – 3. 75 x 10^6 psi	Measured in lab
Shear Modulus ***(G)***	1.10 – 1.56 x 10^6 psi	Measured in lab
Bulk Modulus ***(k)***	1.30 – 2.68 x 10^6 psi	Measured in lab
Poisson's Ratio ***(v)***	0.20 - 0.27	Measured in lab

TABLE 2-11

Fracture Gradient for the Upper Tuscaloosa Formation

Sample Number	Core Depth (ft)	Porosity (%)	Young's Modulus (10^6 psi)	Fracture Grad (psi/ft)
RM01	4,915.7	20.54	3.75	0.873
RM02	4,918.0	22.96	2.19	0.747
RM04	4,930.0	23.39	1.74	0.741
RM05	5,263.5	23.40	3.66	0.784

Table 2-12
Tabulatiion of Seismic Events in and around Louisiana since 1900 (as of September 2022)

No.	Date	Latitude	Longitude	Depth	Mag	Decription of Location
1	4/16/2021	32.5981	-93.9806	5.36	3.2	8 km WNW of Blanchard, Louisiana
2	4/15/2021	32.6277	-94.0489	15.7	2.5	10 km SW of Mooringsport, Louisiana
3	4/1/2021	32.5857	-93.9689	5	3	7 km W of Blanchard, Louisiana
4	5/11/2020	33.0995	-92.601833	11.8	2.76	13 km SSE of El Dorado, Arkansas
5	3/23/2020	31.9407	-94.4426	5	2.5	6 km NW of Timpson, Texas
6	2/24/2020	33.0666667	-92.5995	14.28	2.79	12 km ENE of Junction City, Arkansas
7	8/9/2019	32.5273	-90.0289	5	2.8	Mississippi
8	7/27/2019	31.8468	-94.4226	5	2.6	6 km SSW of Timpson, Texas
9	1/20/2019	31.4703	-94.1354	5	3.3	7 km SSW of San Augustine, Texas
10	1/8/2019	33.1981667	-90.934167	16.35	3.7	8 km WNW of Hollandale, Mississippi
11	9/12/2018	31.8921	-94.3874	5	2.5	1 km SSE of Timpson, Texas
12	9/4/2018	31.9613	-94.4343	5	3.5	7 km NNW of Timpson, Texas
13	8/17/2015	32.5431	-90.1146	5	2.6	9 km N of Madison, Mississippi
14	6/29/2015	32.5614	-90.0744	5	3.2	6 km SSW of Canton, Mississippi
15	5/3/2015	32.5794	-90.1139	5	3	8 km WSW of Canton, Mississippi
16	5/3/2015	32.5571	-90.0759	5	3.2	7 km SSW of Canton, Mississippi
17	10/3/2014	31.6761	-94.0554	5	3.1	16 km NNE of San Augustine, Texas
18	9/2/2013	31.9095	-94.4279	4.69	4.3	3 km WNW of Timpson, Texas
19	9/2/2013	31.9656	-94.5261	4.75	4.2	14 km WNW of Timpson, Texas
20	5/31/2013	31.86	-94.332	5	2.9	7 km SE of Timpson, Texas
21	1/31/2013	31.939	-94.466	5	2.8	7 km WNW of Timpson, Texas
22	1/29/2013	31.866	-94.389	5	2.8	4 km S of Timpson, Texas
23	1/25/2013	31.844	-94.3	5	4.1	11 km SE of Timpson, Texas
24	12/22/2012	31.905	-94.414	5	2.6	1 km W of Timpson, Texas
25	12/7/2012	31.873	-94.401	5	2.8	3 km S of Timpson, Texas
26	5/26/2012	31.878	-94.394	5	2.5	2 km S of Timpson, Texas
27	5/20/2012	31.904	-94.458	5	2.7	5 km W of Timpson, Texas
28	5/17/2012	31.926	-94.369	5	4.8	3 km NE of Timpson, Texas
29	5/10/2012	31.964	-94.465	7	3.9	9 km NW of Timpson, Texas
30	8/2/2010	30.815	-90.854	0.4	3	16 km ESE of Clinton, Louisiana
31	5/16/2007	33.3	-92.587	5	3	5 km SW of Calion, Arkansas
32	12/20/2005	30.258	-90.708	5	3	9 km ESE of French Settlement, Louisiana
33	12/17/2001	33.2	-92.7	10	2.8	3 km WSW of El Dorado, Arkansas
34	3/3/2001	33.19	-92.66	5	3	2 km SSE of El Dorado, Arkansas
35	12/24/1997	33.2	-92.75	5	2.6	7 km W of El Dorado, Arkansas
36	1/9/1997	33.2	-92.6	5	2.8	6 km E of El Dorado, Arkansas
37	6/10/1994	33.013	-92.671	5	3.2	4 km E of Junction City, Arkansas
38	12/12/1988	33.109	-92.978	16.9	2.5	20 km E of Emerson, Arkansas
39	12/9/1983	33.209	-92.739	1.9	3	6 km W of El Dorado, Arkansas
40	10/16/1983	30.243	-93.393	5	3.8	1 km WNW of Sulphur, Louisiana
41	6/9/1981	32.142	-94.399	5	3	Northern Texas
42	10/19/1930	30	-91	--	4.2	Louisiana

TABLE 2-13

Critical Pressure to Induce Seismicity

Interval	Depth to Zone (ft-bgl)*	ΔP_{crit} (psi/ft)	ΔP_{crit} (psi)
Annona Sand** (Injection Zone 1)	4,065	0.148	600
Upper Tuscaloosa Formation (Injection Zone 2)	4,832	0.180	867

**Based on the observed top of the Annona Sand and the top of the Upper Tuscaloosa Formation as open hole logged in the Stratigraphic Test Well (LA SN: 975841; see Type Log Figure 2-2).*

*** The Annona Sand sequestration reservoir is proposed to be held in reserve and will not be utilized initially.*

Table 2-14 Well Well Tabulation within the delineated AOR

Well Well ID Number	LATITUDE	LONGITUDE	Water Well Owner	Well Depth (feet)	Well Status	Completion Date (month/year)	Aquifer	Well Supply/Usage
406665	321022	920722	WILKINS, PAUL B	110	Active	08/1993	COCKFIELD AQUIFER	domestic
406715	320623	920316	MCGINTY, DAVID	78	Active	09/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406423	320617	920449	COLUMBIA, LA	292	Destroyed	10/1945	COCKFIELD AQUIFER	Public Supply
406424	320616	920448	COLUMBIA, LA	282	P&A	01/1951	COCKFIELD AQUIFER	Public Supply
406425	320617	920450	COLUMBIA, LA	290	P&A	07/1956	COCKFIELD AQUIFER	Public Supply
406426	320615	920449	COLUMBIA, LA	290	P&A	06/1956	COCKFIELD AQUIFER	Public Supply
406429	320617	920449	COLUMBIA, LA	293	P&A	05/1962	COCKFIELD AQUIFER	Public Supply
406431	321135	920645	REYNOLDS, O N	700	Active	06/1950	SPARTA AQUIFER	domestic
406435	321045	920607	U S CORPS ENGRS	845	Active	08/1949	SPARTA AQUIFER	domestic
406436	321012	920552	YOUNGBLOOD, U M	406	Active	09/1965	SPARTA AQUIFER	domestic
406437	321012	920552	LA PUBLIC WORKS	177	P&A	11/1965	COCKFIELD AQUIFER	Test Hole
406438	320910	920515	BAUMAN, BILL F	250	Active	02/1964	COOK MOUNTAIN AQUIFER	domestic
406600	321116	920002	WOOD, VERA	89	Active	07/2001	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406610	320647	920430	REEVES, VICTOR	92	Active	06/1982	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406613	321324	920024	MCLANAHAN, PERR	28	Active	No Data	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406614	320657	920419	NEWTON, HENRY	92	Active	06/1982	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406615	321146	920658	MANN, GEORGE	90	Active	10/1981	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406606	320756	920909	HART, SHANE	96	Active	06/2008	COCKFIELD AQUIFER	irrigation
406788	321022	920510	SOUTHWESTERN EN	90	Active	11/2006	[TO BE DETERMINED]	oil/gas well rig supply
406791	320622	920431	EVANS OIL CO.	30	Destroyed	04/10/2009	COCKFIELD AQUIFER SURFICIAL CONFINING UNIT	monitor
406793	320654	920418	WILSON OIL CO,	13	P&A	05/2004	[TO BE DETERMINED]	plugged and abandoned
406541	321114	920041	CLARK, WILSON I	93	Active	04/1987	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406542	320616	920447	COLUMBIA, LA	266	P&A	11/1987	COCKFIELD AQUIFER	Public Supply
406763	321251	920750	KELLEY, HUGH	97	Active	11/2003	COCKFIELD AQUIFER	domestic
406728	320654	920418	WILSON OIL	32	P&A	09/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406729	320826	920644	ROWLAND, EARL	116	Active	03/2000	COCKFIELD AQUIFER	domestic
406731	321258	920430	BUNCH & DENCKER	64	P&A	No Data	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406772	320620	920434	MIXON OIL	30	P&A	10/2004	COCKFIELD AQUIFER SURFICIAL CONFINING UNIT	monitor
406773	320620	920434	MIXON OIL	30	P&A	10/2004	COCKFIELD AQUIFER SURFICIAL CONFINING UNIT	monitor
406724	320653	920418	WILSON OIL	30	P&A	09/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406678	320615	920443	MIXON OIL	26	P&A	12/1995	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406571	320848	920803	GRAYSON, LA	470	Active	03/1993	COCKFIELD AQUIFER	Municipal public supply
406725	320653	920418	WILSON OIL	35	P&A	09/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406726	320654	920418	WILSON OIL	33	P&A	09/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406727	320653	920419	WILSON OIL	29	P&A	09/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406543	320555	920535	COLUMBIA, LA	260	P&A	09/1986	COCKFIELD AQUIFER	monitor
406679	320615	920442	MIXON OIL	25	P&A	12/1995	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406627	321114	920040	CLARK, WILSON I	62	Active	04/1992	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406733	320620	920434	MIXON INC	24	P&A	09/2000	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406503	320712	920405	E COLUMBIA WTR	165	P&A	07/1973	COCKFIELD AQUIFER	Public Supply
406504	320709	920405	E COLUMBIA WTR	130	P&A	10/1973	COCKFIELD AQUIFER	Public Supply
406736	320654	920419	WILSON OIL	34	P&A	03/2001	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406737	320654	920417	WILSON OIL	34	P&A	03/2001	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor

Table 2-14 Well Well Tabulation within the delineated AOR

Well Well ID Number	LATITUDE	LONGITUDE	Water Well Owner	Well Depth (feet)	Well Status	Completion Date (month/year)	Aquifer	Well Supply/Usage
406711	321218	920404	SEALTY, HARRY	78	Active	08/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406717	320802	920307	LEE, RICKY	93	Active	10/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406549	320648	920317	ELLIS, BILLY G	115	Active	08/1988	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406551	320811	920307	ELLIS, BILLY G	120	Active	08/1988	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406513	321022	920347	SPOONER, FRANK	427	Active	10/1980	SPARTA AQUIFER	test hole
406677	320615	920444	MIXON OIL	25	P&A	12/1995	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406696	320636	920307	BOYD, LINDA	65	Active	08/1998	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406697	320631	920316	BUGALOO, JIMMY	93	Active	08/1998	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406570	320948	920415	CAPITOL BANK	115	Active	06/1993	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406552	321318	920106	MULLENIX, LEWIS	82	Active	07/1988	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406553	321051	920439	COON, VERNON	70	Active	03/1996	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406558	321213	920314	HART, BILLY W	107	Active	06/1990	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406559	321339	920047	CERREAR, ROUL	76	Active	07/1990	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406561	321338	920140	EARNEST, MARTY	84	Active	No Data	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406455	320848	920929	KILBY, H A	210	Active	1964	COCKFIELD AQUIFER	domestic
406640	320825	920641	ROWLAND, BILLY	70	Active	01/1986	COCKFIELD AQUIFER	domestic
406645	321108	920039	CLARK, MURLENE	50	Active	05/1987	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406646	321331	920045	POOLE, GLEN JR	80	Active	10/1987	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406647	321340	920022	POOLE, GLEN JR	40	Active	10/1987	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406648	321307	920134	MCCLANAHAN, DAN	50	Active	05/1988	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406525	320857	920509	PARDUE, A J	85	Active	07/1983	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406528	321031	920028	WILKINS, PAUL B	100	Active	05/1982	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406530	320751	920355	RICHMOND	0	Active	05/1982	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406531	321003	920645	U S CORPS ENGRS	90	Active	10/1985	COCKFIELD AQUIFER	Public Supply
406533	320939	920343	WASHAM, ROBERT	104	Active	05/1984	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406544	321105	920036	CLARK, ISREAL W	83	Active	06/1988	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406545	321233	920424	GRADY, ROBERT	120	Active	05/1994	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406701	320620	920434	MIXON OIL	29	P&A	02/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406702	320620	920434	MIXON OIL	29	P&A	02/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406703	320620	920434	MIXON OIL	24	P&A	02/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406704	320620	920434	MIXON OIL	22	P&A	02/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406705	320620	920434	MIXON OIL	33	P&A	02/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406706	320620	920434	MIXON OIL	30	P&A	02/1999	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406497	320703	920354	LA PUBLIC WORKS	239	P&A	09/1973	COCKFIELD AQUIFER	test hole
406524	320617	920350	COLUMBIA, LA	287	Active	09/1983	COCKFIELD AQUIFER	Municipal public supply
406660	320807	920358	GORE, JAMES A	92	Active	09/1991	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406416	320616	920449	COLUMBIA, LA	265	P&A	06/1933	COCKFIELD AQUIFER	Public Supply
406417	320627	920437	COLUMBIA, LA	500	Destroyed	1902	SPARTA AQUIFER	Public Supply
406419	320945	920540	DUKE, EARL	400	Active	1947	SPARTA AQUIFER	domestic
406421	320929	920526	TEXAS GAS TRANS	485	Active	12/1955	SPARTA AQUIFER	commercial public supply
406446	320546	920508	LA PUBLIC WORKS	471	P&A	06/1966	[NO WELL MADE]	test hole
406675	320949	920428	RDF FARMS	118	P&A	12/1994	[NO WELL MADE]	test hole
406676	320615	920443	MIXON OIL	25	P&A	12/1995	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor

Table 2-14 Well Well Tabulation within the delineated AOR

Well Well ID Number	LATITUDE	LONGITUDE	Water Well Owner	Well Depth (feet)	Well Status	Completion Date (month/year)	Aquifer	Well Supply/Usage
406590	320911	920245	HART, BILLY W	98	Active	07/1998	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406593	321253	920336	HART, B W	97	Active	07/1998	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406480	320704	920407	LA PUBLIC WORKS	150	P&A	1970	COCKFIELD AQUIFER	test hole
406481	320704	920407	LA PUBLIC WORKS	247	P&A	07/1970	COCKFIELD AQUIFER	test hole
406491	321049	920509	CA INDUST PARK	116	Active	02/1972	MISSISSIPPI RIVER ALLUVIAL AQUIFER	industrial
406582	321009	920250	RDF FARMS	108	Active	11/1996	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406584	320757	920302	DURDER, O R	118	Active	07/1997	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406586	321107	920627	ELLIS, BILLY G	112	Active	07/1998	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406578	321001	920354	RDF FARMS	110	Active	12/1994	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406579	321313	920444	BUNCH, LOENARD	113	Active	06/1996	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406453	320805	920948	VARNELL, EARL	178	Active	1964	COCKFIELD AQUIFER	domestic
406454	320845	920928	KILBY, H A	525	Active	1963	SPARTA AQUIFER	domestic
406748	320613	920424	TARVER, WILLIS	95	Active	04/2002	COCKFIELD AQUIFER	domestic
406594	320832	920211	KENNEY, CLARICE	96	Active	08/1998	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406597	321258	920431	BUNCH & DENCKER	120	Active	05/2000	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406598	321116	920012	WOOD, VERA	87	Active	09/2000	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406599	321054	920256	WETLANDS INC	105	Active	10/2000	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406749	320620	920434	MIXON OIL	35	P&A	02/2002	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
769726	320958	920636	USACE	96.1	Active	04/09/2019	COCKFIELD AQUIFER	
769727	321000	920636	USACE	88.3	Active	04/09/2019	COCKFIELD AQUIFER	
769729	321000	920636	USACE	87.5	Active	04/09/2019	COCKFIELD AQUIFER	
769717	320955	920635	USACE	83	Active	04/09/2019	COCKFIELD AQUIFER	
769718	320955	920635	USACE	87.3	Active	04/09/2019	COCKFIELD AQUIFER	
769719	320956	920635	USACE	87.4	Active	04/09/2019	COCKFIELD AQUIFER	
769722	320957	920635	USACE	87.5	Active	04/19/2019	COCKFIELD AQUIFER	
769723	320957	920635	USACE	81.5	Active	04/09/2019	COCKFIELD AQUIFER	
769724	320958	920635	USACE	88.5	Active	04/09/2019	COCKFIELD AQUIFER	
769715	320955	920634	USACE	87.5	Active	04/09/2019	COCKFIELD AQUIFER	
769716	320954	920635	USACE	87.7	Active	04/09/2019	COCKFIELD AQUIFER	
769720	320957	920635	USACE	88	Active	04/09/2019	COCKFIELD AQUIFER	
769721	320957	920635	USACE	87.8	Active	04/09/2019	COCKFIELD AQUIFER	
769725	320958	920635	USACE	88	Active	04/09/2019	COCKFIELD AQUIFER	
769728	321000	920636	USACE	87.2	Active	04/09/2019	COCKFIELD AQUIFER	
769999	320826	920314	DUCKHORN FARM	100	Active	07/30/2019	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
770002	320844	920414	DUCKHORN FARM	92	Active	07/31/2019	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
770001	320834	920419	DUCKHORN FARM	90	Active	07/31/2019	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic
406534	320936	920246	WASHAM, MIKE	83	Active	05/1984	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406651	320833	921024	SESNEY, CECEL	78	Active	12/1988	COCKFIELD AQUIFER	domestic
406583	321136	920617	RUCKER, JAMES	98	Active	05/1997	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406557	320658	920252	CHILDRESS, G H	104	Active	09/1990	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406604	321029	920343	WETLANDS INC	110	Active	05/2004	[TO BE DETERMINED]	irrigation
406698	320635	920308	MCGURK, JACKIE	65	Active	0919/98	MISSISSIPPI RIVER ALLUVIAL AQUIFER	domestic

Table 2-14 Well Well Tabulation within the delineated AOR

Well Well ID Number	LATITUDE	LONGITUDE	Water Well Owner	Well Depth (feet)	Well Status	Completion Date (month/year)	Aquifer	Well Supply/Usage
619032	320658	920423	TENSAS BASIN LEVEE BOARD		P&A	09/12/2013	[UNKNOWN]	monitor
770000	320832	920257	DUCKHORN FARM	110	Active	07/30/2019	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406776	321024	920535	MEYER, M L & H	23	P&A	03/2005	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
406485	321203	920029	LA PUBLIC WORKS	155	P&A	12/1970	COOK MOUNTAIN AQUIFER	test hole
406550	320819	920244	ELLIS, BILLY G	120	Active	08/1988	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406439	321012	920553	YOUNGBLOOD, U M	400	Active	1920	SPARTA AQUIFER	domestic
554357	321326	920616	TRIPP FAULK	92	Active	05/17/2011	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
554377	321327	920621	TRIPP FAULK	87	Active	05/18/2011	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406762	321251	920750	KELLEY, HUGH	629	P&A	11/2003	SPARTA AQUIFER	test hole
406585	321153	920705	MCKEITHEN TRUST	100	Active	07/1997	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
598525	320837	920401	DREW KEAHEY	100	Active	03/11/2013	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
598545	321033	920529	DREW KEAHEY	100	Active	03/15/2013	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
598546	321355	920608	DREW KEAHEY	92	Active	03/16/2013	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
598547	320811	920346	DREW KEAHEY	120	Active	03/18/2013	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
619092	320657	920423	TENSAS BASIN LEVEE BOARD	42.	P&A	09/12/2013	[UNKNOWN]	monitor
619112	320658	920422	TENSAS BASIN LEVEE BOARD	43.2	P&A	09/12/2013	[UNKNOWN]	monitor
619152	320657	920424	TENSAS BASIN LEVEE BOARD	43.3	P&A	09/12/2013	[UNKNOWN]	monitor
619153	320656	920423	TENSAS BASIN LEVEE BOARD	46.4	P&A	09/12/2013	[UNKNOWN]	monitor
619154	320658	920424	TENSAS BASIN LEVEE BOARD	70.9	P&A	09/12/2013	[UNKNOWN]	monitor
406414	320616	920437	LA POWER &LIGHT	622	Active	1920	SPARTA AQUIFER	Public Supply
598565	321348	920028	BONNIE PRINCE	60	Active	03/13/2013	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
642339	321123	920559	RONALD CARR	90	Active	05/08/2014	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
642338	321149	920609	RONALD CARR	90	Active	05/07/2014	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406434	321008	920630	U S CORPS ENGRS	592	Active	11/1964	SPARTA AQUIFER	domestic
406738	320652	920419	WILSON OIL	30	P&A	03/2001	MISSISSIPPI RIVER ALLUVIAL AQUIFER SURFICIAL CONFINING	monitor
756739	320802	920236	PABLO GUERRERO	70	Active	09/14/2017	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
723739	320616	920447	TOWN OF COLUMBIA	275	Active	03/15/2016	COCKFIELD AQUIFER	Municipal public supply
754707	321149	920612	DREW KEAHEY	92	Active	05/12/2017	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
406428	320931	920529	TEXAS GAS TRANS	106	P&A	05/1955	MISSISSIPPI RIVER ALLUVIAL AQUIFER	commercial public supply
406444	320617	920449	COLUMBIA, LA	298	P&A	03/1966	COCKFIELD AQUIFER	Municipal public supply
406602	320616	920447	TOWN COLUMBIA	278	Active	01/2003	COCKFIELD AQUIFER	Municipal public supply
649552	321216	920603	LEE ARMELIN	105	P&A	01/01/1981	CHICOT AQUIFER,UPPER SAND UNIT	unknown
551031	320648	920308	BILLY ELLIS	110	Active	04/12/2011	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
757338	320842	920608	AAA HOTEL MANAGEMENT INC	93	Active	10/18/2017	CHICOT AQUIFER,UPPER SAND UNIT	
754708	321125	920604	DREW KEAHEY	105	Active	05/11/2017	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
776475	320915	920428	DUCKHORN FARMS	73	Active	07/21/2020	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
780104	320747	920346	DEAN HART	94	Active	04/12/2021	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
782397	321326	920011	BRAD BECKLEY	78	Active	07/22/2021	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
783180	321120	920627	EAST COLUMBIA WATER SYSTEM	240	Active	03/22/2021	MISSISSIPPI RIVER ALLUVIAL AQUIFER	Municipal public supply
783179	321123	920619	EAST COLUMBIA WATER SYSTEM	240	Active	03/20/2021	MONTGOMERY AQUIFER	Municipal public supply
758160	320750	920345	JERRY BAILEY	130	Active	11/29/2017	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
776473	320843	920330	DUCKHORN FARMS	92	Active	07/20/2020	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
776474	320857	920347	DUCKHORN FARMS	80	Active	07/20/2020	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation

Table 2-14 Well Well Tabulation within the delineated AOR

Well Well ID Number	LATITUDE	LONGITUDE	Water Well Owner	Well Depth (feet)	Well Status	Completion Date (month/year)	Aquifer	Well Supply/Usage
763638	320917	920247	BROCKMAN FAMILY LIMITED PARTNERSHIP	95	Active	08/29/2018	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation
763979	320938	920344	WETLANDS INC	100	Active	09/14/2018	MISSISSIPPI RIVER ALLUVIAL AQUIFER	irrigation

Table 2-15 Formation Water Properties for 8 Samples Tested in the Laboratory by Stratum Reservoir in Houston

Formation	Sample Depth (ft)	Reference Depth (ft)	Estimated Pressure (psi)	Estimated Temperature (°F)	Formation Water Density from Water Analyses (kg/l)	Formation Water Resistivity from Water Analyses (ohm-m)	NaCl Concentration[1] (ppm)	Formation Water Resistivity from Logs (ohm-m)	NaCl Concentration[2] (ppm)	Formation Water Viscosity (cP)	pH	TDS Calculated as Sum of Major Ions (mg/l)	TDS Calculated from Conductivity (mg/l)	Total Cations (meq/l)	Total Anions (meq/l)
Annona Sand	4,149-4,184	4,166	1,889	129	1.0664	0.0772	100,000	0.044	100,000	0.6219	6.407	95,955.4	82,854.4	1,603.628	-1,671.333
Upper Tuscaloosa	4,913-4,948	4,930	2,233	141	1.0906	0.0621	120,000	0.035	120,000	0.6137	5.964	131,224.5	103,039.4	2,166.894	-2,321.431
Upper Tuscaloosa	5,052-5,086	5,069	2,296	143	1.0799	0.0694	100,000	0.038	100,000	0.5808	6.110	115,636.3	92,174.7	1,917.701	-2,031.220
Upper Tuscaloosa	5,140-5,192	5,166	2,339	145	1.0875	0.0642	120,000	0.034	120,000	0.5873	6.158	126,285.5	99,743.4	2,067.541	-2,240.282
Upper Tuscaloosa	5,250-5,343	5,296	2,398	147	1.0882	0.0651	120,000	0.033	120,000	0.5817	6.015	128,549.5	98,385.3	2,108.855	-2,280.997
Upper Tuscaloosa	5,418-5,484	5,451	2,468	149	1.0916	0.0636	120,000	0.032	120,000	0.5774	5.804	131,484.8	100,684.8	2,192.235	-2,318.222
Lower Tuscaloosa	5,597-5,628	5612	2,540	151	1.0915	0.0733	100,000	0.038	100,000	0.5313	2.599	103,924.0	87,315.2	1,881.499	-2,190.992
Paluxy "P-2" Sand	5,810-5,846	5828	2,637	155	1.0999	0.0585	130,000	0.029	130,000	0.5685	4.926	142,254.5	109,493.1	2,346.934	-2,529.304

(1) NaCl concentration estimated from resistivity measured at lab conditions (i.e., temperature equal to 77 °F).
(2) NaCl concentration estimated from resistivity measured by well logging (i.e., downhole temperature).

Table 2-16

CO_2 Measured in Bottomhole Water Samples Tested in the Laboratory by Stratum Reservoir in Houston

Depth (ft)	Formation	Opening Pressure (psig at 77 °F)	Gas Water Ratio (scf/stb)	CO_2 (mol%)	CO_2 (weight%)
4,134	Selma Chalk	5,066	6.1	2.644	6.494
5,035	Upper Tuscaloosa	5,231	6.2	20.378	37.272
5,050	Upper Tuscaloosa	5,398	4.9	23.589	44.005
5,581	Lower Tuscaloosa	5,276	19.0	72.380	86.952
5,595	Lower Tuscaloosa	5,324	21.7	76.013	89.002
5,794	Paluxy “P-1” Sand	5,931	6.4	11.912	25.476
5,808	Paluxy “P-1” Sand	5,163	6.3	9.837	20.309