

Brandon CO2 Plant

State Well Report

Part 1

Mississippi Department of Environmental Quality
Office of Land and Water Resources
P.O. Box 10631
Jackson, MS 39289-0631
(601)961-5210
(601)354-6938 (fax)

For Office Use Only:

Aquifer: M85
Well #: _____
L. S. Elevation: _____
E-log #: _____

County: Rankin
Permit #: MS-GW-16886
Driller: John W Thompson
Date drilling completed: 7-11-11

State Law requires that this report be prepared by the driller in detail and filed with the Department within 30 days of completion of drilling of the well.

Well Owner Information	Well Location
Owner Name: <u>Denbury Onshore</u>	Latitude: <u>32.17.15"</u> Longitude: <u>89.55.54"</u>
Mailing Address: <u>P.O. Box 6506</u> <u>Laurel MS</u>	Method of Lat/Long (circle one): <u>Conventional Survey</u> USGS quad, Hand-held GPS, Survey-grade GPS <u>NE 1/4 Sec 7 Twn 5N Rng 4E</u>
City: _____ State: _____ Zip Code: _____	Distance: <u>3</u> Miles Direction: <u>NE</u> of Nearest Town: <u>Brandon</u>
Telephone No. () _____	

Well Data

Purpose of Well (circle one) Home Industrial Public Supply Irrigation Fish Culture Other: _____

Date well drilling started: 6-16-11 Date well drilling completed: 7-11-11

If flowing, method of flow regulation: Valve _____ Other (describe) _____

Static Water Level: 374 feet above of below (circle one) land surface Date measured: 7-20-11

Method of Measurement (circle one) steel tape electric tape air line other: _____

Hole depth: 1367 Well depth: 1365 Well grouted to a depth of (6'-40') (500'-1182) feet

Type of grout (circle one): Cement Bentonite Mix

Casing length: 1182 feet Casing diameter: 7 inches Type of casing: Steel

Screen length: 42 feet Screen diameter: 4 inches Type of screen: Stainless Pipe Based

Screen slot size: .008 inches Setting depth: From 1322 feet to 1364 feet

Type of completion (circle all applicable): Gravel packed Underreamed Telescoped Open hole Natural Development

Other (describe): _____

Top of lap pipe or reduction in casing: 1132 feet. If telescoped or more than one screen, describe on back of page

Logs run (circle all applicable): No log run Electric Gamma Ray Density Sonic Neutron Other: _____

Name of organization running log(s): MS DEQ

I certify that the well was drilled, constructed, and completed in accordance with all applicable requirements of the Mississippi Department of Environmental Quality and/or the Mississippi Department of Health regulations and state laws.

John W Thompson 0-679
Print Name of Water Well Contractor and License No.

John W Thompson
Signature of Water Well Contractor

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BY: OLWR

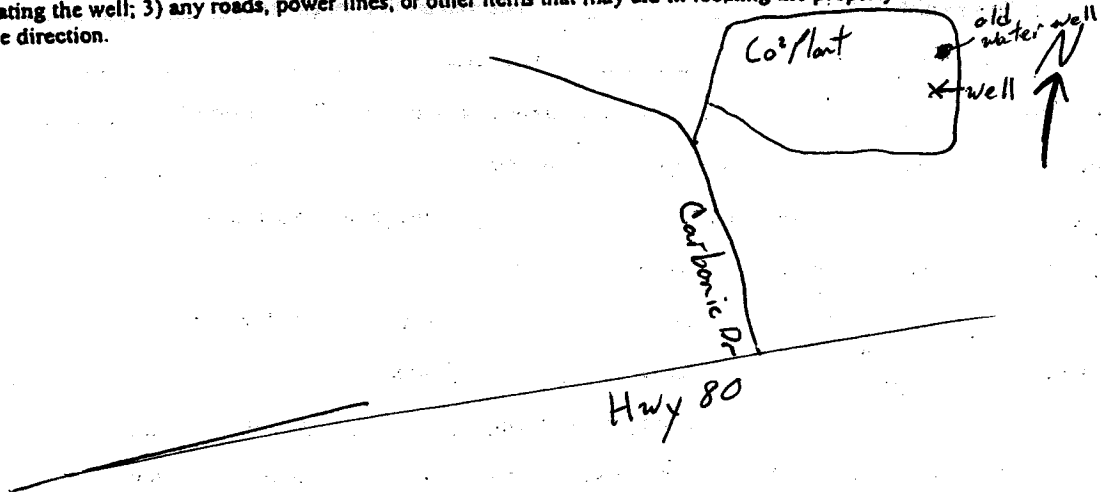
If well telescopes please sketch below and show depths.

Ground Level _____

Description of Formations Encountered	From	To
yellow clay	0	15
Blue clay lignite & sand	15	60
Blue clay	60	475
Coarse sand seashells & clay	475	570
rock	570	511
sand seashells & clay	511	530
Green & brown clay	530	600
sand & clay	600	620
fine sand	620	660
sand & clay strips	660	720
fine sand	720	740
clay & seashells	740	760
green shale	760	790
sand	790	820
hard clay	820	880
clay	880	1040
sand	1040	1090
sand & clay	1090	1150
sand	1150	1200
clay	1200	1260
sand	1260	1367

More than one screen, show location of each on sketch

Sketch the property layout and include the following: 1) the well location; 2) any permanent structures on the property that may aid in locating the well; 3) any roads, power lines, or other items that may aid in locating the property and the well; 4) indicate direction.

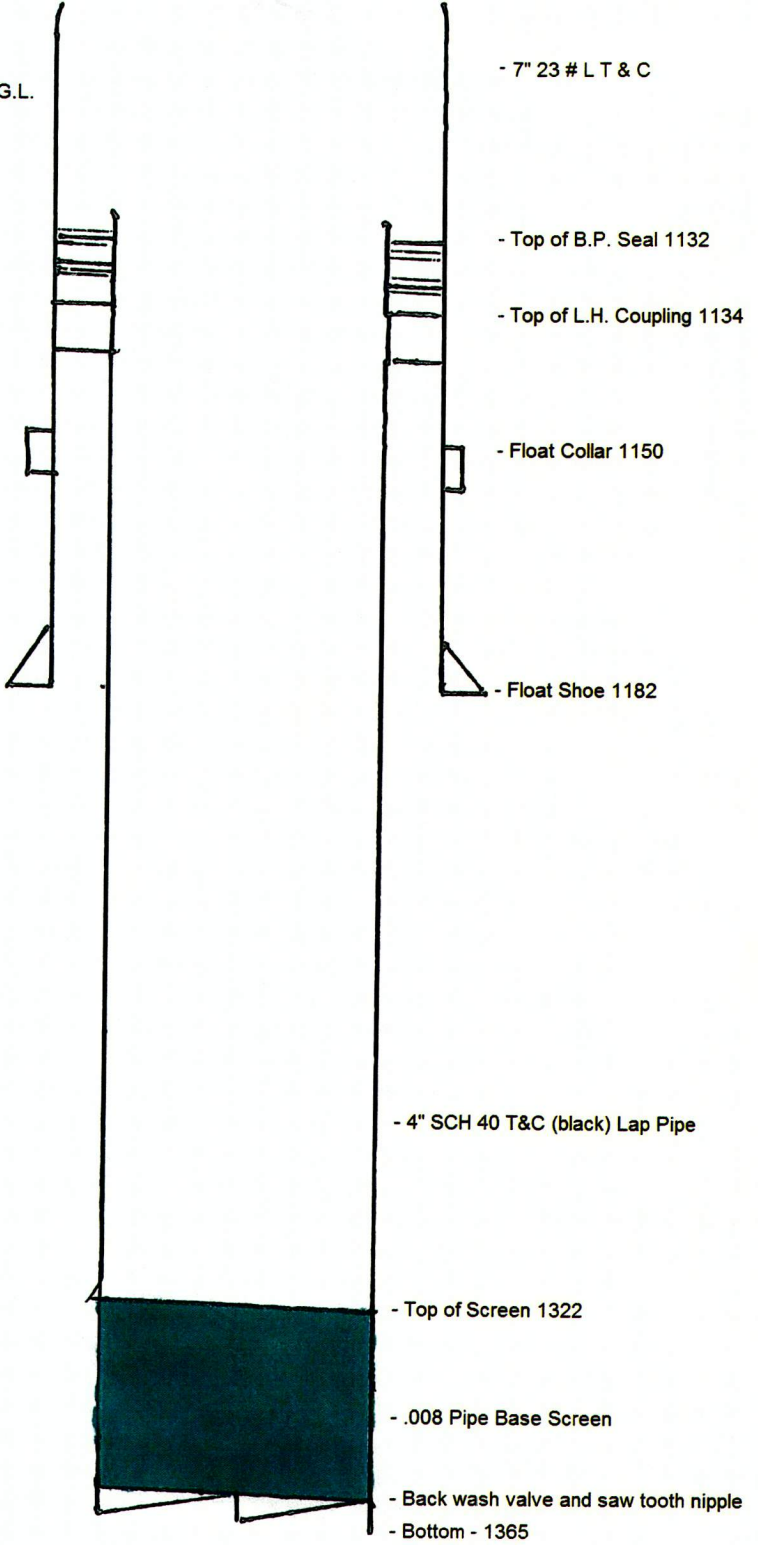


Landowner Name: Denbury Onshore

John W. Thompson
Signature of Water Well Contractor

m 85

DENBURY CO2
PUMPING STATION
ALL DEPTHS FROM G.L.



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STATE WELL REPORT

Part 2

Pump Installer's Completion Report
 Mississippi Department of Environmental Quality
 Office of Land and Water Resources
 P.O. Box 10631
 Jackson, MS 39289-0631
 (601)961-5210
 (601)354-6938 (fax)

County: Rankin
 Permit #: MS-GW-16886
 Driller: John W Thompson
 Date completed: 7-30-11
Copy information from block on Part 1

For Office Use Only:

Aquifer: _____
 Well #: _____
 Elevation: _____

This part of the report must be completed by a licensed water well contractor or a licensed pump installer. A copy of Part 1 of the report must be attached and both parts filed with the Department at the above address within 30 days of well completion.

Well Owner Information	Well Location
Owner Name: <u>Denbury Onshore</u>	Latitude: <u>32°17'15"</u> Longitude: <u>89°55'54"</u>
Mailing Address: <u>P.O. Box 6506</u> <u>Laurel MS</u>	Method of Lat/Long (check one): Conventional Survey _____ USGS quad _____, Hand-held GPS <input checked="" type="checkbox"/> Survey-grade GPS _____
City _____ State _____ Zip Code _____	_____ 1/4 _____ 1/4 Sec <u>7</u> T <u>5N</u> R <u>4E</u>
Telephone No. () _____	Distance _____ Direction _____ Nearest Town _____ <u>3</u> Miles <u>NE</u> of <u>Brandon</u>

Pump Type Circle one	Power Type Circle one
Air Lift _____ Jet _____ <u>Submersible</u>	Diesel Engine _____ Gasoline Engine _____ Natural Gas _____
Bucket _____ Piston _____ Turbine _____	<u>Electric Motor</u> _____ Hand _____ Tractor PTO _____
Centrifugal _____ Rotary _____ Flowing Well _____	Windmill _____ Other (specify): _____
Other (specify): _____	Horse Power Rating of Motor: <u>30 hp</u>
Date Pump Installed: <u>7-29-11</u>	Setting Depth: <u>525</u> feet
Rated Pump Capacity: <u>150</u> Gallons Per Minute	Number of Stages: <u>11</u>

Pump Test Data	Method of Measuring Water Level Circle one
Date Well Tested: <u>7-29-11</u>	Air Line _____ <u>Electric Measuring Line</u> _____ Steel Tape _____
Static Water Level (A): <u>374</u> Feet Below Land Surface	Other (specify): _____
Pumping Water Level (B): <u>440</u> Feet Below Land Surface	For flowing well, measured shut in head: _____ feet
Drawdown [(B) - (A)]: <u>66</u> Feet Below Land Surface	Well yielded <u>175</u> GPM with a drawdown of
Test Pumping Rate: <u>175</u> Gallons Per Minute	<u>66</u> feet after <u>4</u> hours of pumping
Duration of Pump Test (minimum 4 hours): <u>4</u> hours	

I HEREBY CERTIFY that the above statements are true to the best of my knowledge.

John W Thompson 0-679 _____
 Print Name of Pump Installer and License No. (if applicable) Signature of Pump Installer

Form: OLWR-SWR-1B

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