

4019-LWH

### State Well Report

#### Part 1 - Driller's Log

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: \_\_\_\_\_  
Well #: G-41  
L. S. Elevation: \_\_\_\_\_  
E-log #: \_\_\_\_\_

County: Choctaw  
Permit #: \_\_\_\_\_  
Driller: Randy Sellers  
Date drilling completed: 8-30-07

State Law requires that this report be prepared by the license holder responsible for the work and filed with the Department at the above address within 30 days of completion of drilling of the well or borehole.

Information on Well Owner <i>(Landowner if borehole is not for a water well)</i>	Well or Borehole Location
Owner Name: <u>MS Lignite Mining Co.</u>	Latitude: <u>33° 22' 20"</u> Longitude: <u>89° 14' 17"</u>
Mailing Address: <u>1000 McIndree Rd</u> <u>Ackerman, MS 39735</u>	Method of Lat/Long (circle one): Conventional Survey, USGS quad, Hand-held GPS, <u>Survey-grade GPS</u>
City: _____ State: _____ Zip Code: _____	<u>NW</u> ¼ <u>NW</u> ¼ Sec <u>3</u> Twn <u>17 N</u> Rng <u>10 E</u>
Telephone No. (602) <u>387-5200</u>	Distance: <u>2.5</u> Miles Direction: <u>NW</u> of Nearest Town: <u>Chester</u>

**Well / Borehole Data**

Date drilling started: 8-27-07 Date drilling completed: 8-30-07 Hole depth: 450' Hole diameter: 4 3/4"

Location of the source of any surface water used for drilling: Little Spring creek

Method of dosing and volume of Chlorine used in drilling and development: 1 gal Bleach to 500 gal water

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

Name of organization running log(s): MDER

Purpose of borehole (check one): Water Well  Geotechnical/Geological Investigation \_\_\_\_\_ Ground Source Heat Pump \_\_\_\_\_

Seismic Survey \_\_\_\_\_ Other (describe) \_\_\_\_\_

*If drilling is not related to water well construction, skip the remainder of this block*

Purpose of Well (check one): Home Industrial Public Supply Irrigation Fish Culture Other: \_\_\_\_\_

If a flowing well, method of flow regulation: Valve \_\_\_\_\_ Other (describe) \_\_\_\_\_

Static Water Level: 155 feet above or below (circle one) land surface Date measured: 9-5-07

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

Well depth: ~~385~~<sup>385</sup> Well grouted to a depth of 320 feet Type of grout (circle one) Neat Cement Bentonite Mix

Casing length: 320 feet Casing diameter: 4 inches Type of casing: PVC

Screen length: 60 feet Screen diameter: ~~4~~<sup>4</sup> inches Type of screen: PVC

Screen slot size: 0.01 inches Setting depth: From 320 feet to 380 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: \_\_\_\_\_ feet. *If telescoped or more than one screen, describe on next page*

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**BY: OLWR**

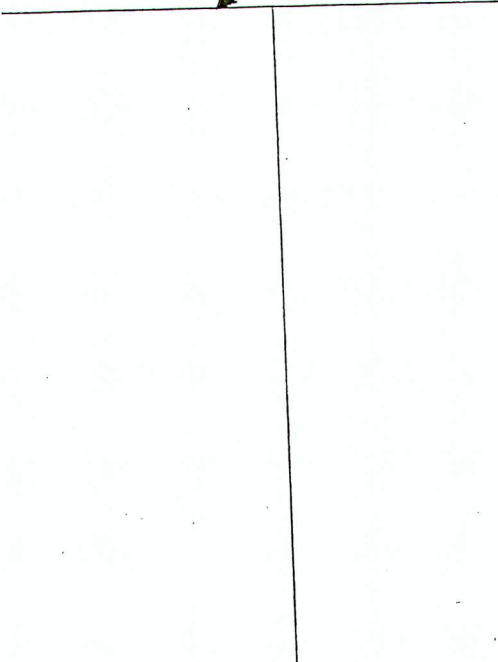
G-41

The sketch below only required for water wells

Description of formations encountered must be provided for all wells and boreholes, unless specifically exempted by regulations

If well telescopes, show depths on sketch.

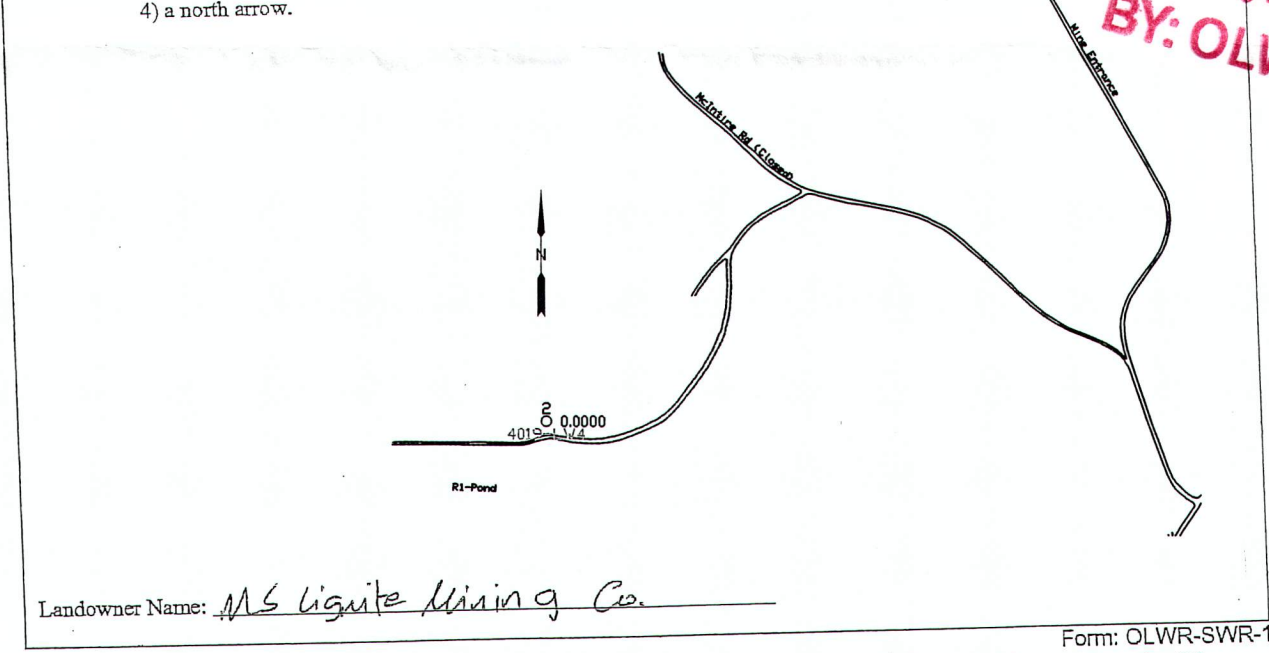
Ground Level



Description of Formations Encountered	From (depth)	To (depth)
Clay	Ground Level	175
sand	175	225
Clay	225	315
sand	315	375
clay	375	450

If 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) a north arrow.



Landowner Name: MS Lignite Mining Co.

Form: OLWR-SWR-1A

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

Randy SAHERS MS Lic 0779GM 9-5-07  
Print Name of Responsible Licensee and License No. Date

Randy Sakers  
Signature of Licensee



# 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)

For Office Use Only:

Aquifer: \_\_\_\_\_  
 Well #: G-41  
 Elevation: \_\_\_\_\_

County: Choctaw  
 Permit #: \_\_\_\_\_  
 Driller: Randy Sellers  
 Date completed: 8-30-07  
*Copy information from block on Part 1*

*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>MS Lignite Mining Co.</u>	Latitude: <u>33° 22' 20"</u> Longitude: <u>89° 14' 17"</u>
Mailing Address: <u>1000 McEntire Rd</u> <u>Akerman, MS 39735</u>	Method of Lat/Long (check one): Conventional Survey _____, USGS quad _____, Hand-held GPS _____, Survey-grade GPS <input checked="" type="checkbox"/>
City _____ State _____ Zip Code _____	<u>NW 1/4 NW 1/4 Sec 3 T 17 R 10 E</u>
Telephone No. <u>(662) 387-5200</u>	Distance _____ Direction _____ Nearest Town _____ <u>2.5 Miles NW of Chester</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>5</u>
Date Pump Installed: <u>9-12-07</u>	Setting Depth: <u>294</u> feet
Rated Pump Capacity: <u>7.5</u> Gallons Per Minute	Number of Stages: _____

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Pump Test Data	Method of Measuring Water Level Circle one
Date Well Tested: <u>9-12-07</u>	Air Line <u>Electric Measuring Line</u> Steel Tape
Static Water Level (A): <u>135</u> Feet Below Land Surface	Other (specify): _____
Pumping Water Level (B): <u>294</u> Feet Below Land Surface	For flowing well, measured shut in head: _____ feet
Drawdown [(B) - (A)]: <u>159</u> Feet Below Land Surface	Well yielded <u>3</u> GPM with a drawdown of
Test Pumping Rate: <u>3</u> Gallons Per Minute	<u>159</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.  
Randy Sellers MS Lic 0779 GIM      Randy Sellers  
 Print Name of Pump Installer and License No. (if applicable)      Signature of Pump Installer