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STATE WELL REPORT

Part 1

Driller's Log

Mississippi Department of Environmental Quality
Office of Land and Water Resources
P.O. Box 2309
Jackson, MS 39225-2309
(601)961-5555
(601)961-5228 (fax)

County: Jeff Davis
Permit #: Testhole 6015-6W1741
Driller: David West
Date drilling completed: 6-4-2019

For Office Use Only:

Well #: B66
Aquifer: _____
E-Log #: _____

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.

Well Owner Information <small>(Landowner if borehole is not for a water well)</small>	Well or Borehole Location
Owner Name: <u>Southern Energy Oil & Gas</u>	Latitude: <u>31.734486</u> Longitude: <u>89.849283</u>
Mailing Address: <u>Suite # 2400</u> <u>333 - 7th Ave SW</u>	Method of Lat/Long (check one): Conventional Survey _____ USGS quad _____, Hand-held GPS <u>X</u> , Survey-grade GPS _____
<u>Calgary, AB T2P 2P1</u> City State Zip Code	_____ 1/4 _____ 1/4, Sec _____ T _____ R _____
Telephone No. <u>(597) 287 5400</u>	<u>8</u> Miles <u>NNE</u> of <u>Prentiss</u> (Distance) (Direction) (Nearest Town)

Well / Borehole Data	
Date drilling started: <u>6-3-2019</u> Date drilling completed: <u>6-4-2019</u> Hole depth: <u>480'</u> Hole diameter: <u>5 3/8"</u>	
Location of the source of any surface water used for drilling: <u>Creehon HWY 13</u>	
Method of dosing and volume of Chlorine used in drilling and development: <u>Tubs 50ppm</u>	
Logs run (check all applicable): <input type="checkbox"/> log run <input checked="" type="checkbox"/> Electric <input type="checkbox"/> Gamma Ray <input type="checkbox"/> Density <input type="checkbox"/> Sonic <input type="checkbox"/> Neutron Other: _____	
Name of organization running log(s): <u>MDEQ Geology</u>	
Purpose of borehole (check one): Water Well <input type="checkbox"/> Geotechnical/Geological Investigation <input type="checkbox"/> Ground Source Heat Pump <input type="checkbox"/> Seismic Survey Other (describe) <u>Test hole</u>	
<i>If drilling is not related to water well construction, skip the remainder of this block</i>	
Purpose of Well (check all applicable): <input type="checkbox"/> Home <input type="checkbox"/> Industrial <input type="checkbox"/> Public Supply <input type="checkbox"/> Irrigation <input type="checkbox"/> Fish Culture Other (describe): <u>Test Hole not Completed</u>	
If a flowing well, method of flow regulation: Valve _____ Other (describe) _____	
Static Water Level: _____ feet <input type="checkbox"/> above or <input type="checkbox"/> below land surface Date measured: _____ (check one)	
Method of measurement (check one) <input type="checkbox"/> Steel tape <input type="checkbox"/> Electric tape <input type="checkbox"/> Air line <input type="checkbox"/> Other (describe): _____	
Well depth: _____ Well grouted to a depth of: _____ feet Type of grout (check one) <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Mix	
Casing length: _____ feet Casing diameter: _____ inches Type of casing: _____	
Screen length: _____ feet Screen diameter: _____ inches Type of screen: _____	
Screen slot size: _____ inches Setting depth: From _____ feet to _____ feet	
Type of completion (check all applicable) <input type="checkbox"/> gravel packed <input type="checkbox"/> Underreamed <input type="checkbox"/> Open hole <input type="checkbox"/> Natural Development	
Other (describe): _____	
Top of lap pipe or reduction in casing: _____ feet	

If telescoped or more than one screen, describe on next page

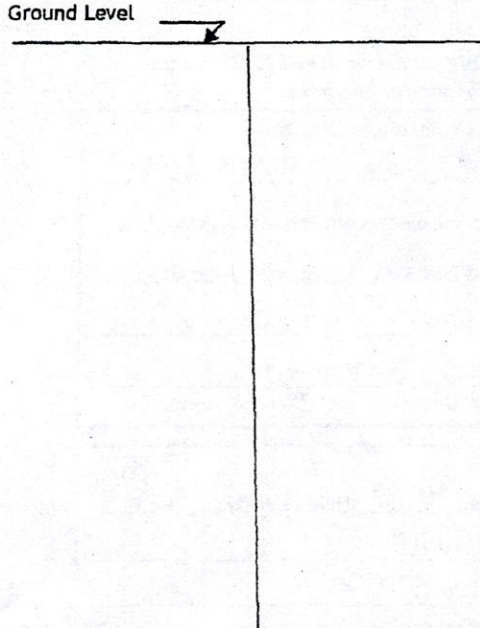
County: Jeff Davis
 Permit #: TK60 MS-GW17431

For Office Use Only:
 Well #: _____

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.



Description of Formations Encountered	From (depth)	To (depth)
Clay (gravel)	Ground level	13
Sand	13	21
Clay	21	62
Sand/gravel	62	230
Sandstone	230	232
Sand	232	235
Sandy clay	235	330
Sand	330	340
Coarse Sand	340	440
Sandy Clay	440	480

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) north arrow

Landowner Name: Southern Energy

I HEREBY 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.

David West 0692 652014 David West
 Print Name of Responsible Licensee and License No. Date Signature of Licensee

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MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
 Office of Land and Water Resources
 P. O. Box 2309
 Jackson, MS 39225
 Water Well Plugging/Decommissioning Form
 OLWR-DF-1 (04/08)
 (601)961-5555 (601)961-5228 (fax)

COUNTY WELL LOCATED: <u>Jeff Davis</u>		WELL NUMBER: <u>B61</u>	
PERMIT NUMBER: <u>Testhole MS-GW17431</u>	DATE WELL PLUGGED: <u>6-6-2019</u>		
NAME OF FIRM PLUGGING WELL: <u>Roy V. West Water Well Drilling</u>	TELEPHONE NUMBER: <u>601-4281385</u>		
NAME AND ADDRESS OF CURRENT LANDOWNER: <u>Southern Energy Corp</u> <u>Suite #2400 333-7th Ave SW Calgary, AB T2P 2T1</u>			
WELL LOCATION:	SECTION:	TOWNSHIP:	RANGE:
WELL LOCATION:	LATITUDE: <u>31.939486</u>	LONGITUDE: <u>89.849283</u>	METHOD (Check ONE): <input checked="" type="checkbox"/> USGS QUAD <input type="checkbox"/> CONVENTIONAL SURVEY <input type="checkbox"/> GPS - HAND HELD OR SURVEY GRADE
DISTANCE: <u>8</u>	DIRECTION: <u>NNE</u>	NEAREST TOWN: <u>Prentiss MS</u>	OTHER LANDMARK:
WELL PURPOSE (HOME, IRRIGATION, MUNICIPAL, ETC.): <u>Test Hole - Never Completed</u>			
NAME OF WELL CONTRACTOR WHO DRILLED THE WELL: <u>David West 0692</u>			
NAME OF LANDOWNER WHEN WELL WAS DRILLED: <u>Same as current</u>			

WELL DATA			
WELL DEPTH: <u>480'</u>	HOLE DEPTH: <u>480'</u>		
CASING DIAMETER (IN.): <u>No casing</u>	CASING LENGTH (FT.):	TYPE OF CASING:	
DEPTH TO STATIC WATER LEVEL: <u>Unknown</u>	DATE WELL COMPLETED: <u>No completion - Drilling on 6/4/19</u>		
WHY IS THE WELL BEING ABANDONED? <u>Test Hole</u>			

DESCRIBE HOW THE WELL OR HOLE WAS PLUGGED (AMOUNT OF CASING AND/OR SCREEN THAT WAS REMOVED OR LEFT IN HOLE, MATERIAL AND AMOUNT USED IN PLUGGING, METHOD OF PLACING MATERIAL, ETC.)

2 in Tremie pipe run to 440' clear water pumped to clear mud, once return cleared, Portland Flowable mix pumped down tremie pipe remaining 40ft at a time as concrete reached end of tremie to surface; capped with cement after 24hr settle time

I CERTIFY THAT THE WELL WAS PLUGGED OR ABANDONED IN ACCORDANCE WITH THE STATE OF MISSISSIPPI REGULATIONS.

<u>David West</u>	<u>0692</u>
PRINT NAME	MS LICENSE NUMBER
<u>[Signature]</u>	<u>6-7-2019</u>
SIGNATURE	DATE