

Frac well # 3

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)961-5210
(601)360-0535 (fax)

For Office Use Only:

Well #: 568
Aquifer: _____
E-Log #: _____

County: Wilkinson
Permit #: _____
Driller: John W Thompson
Date drilling completed: 4-11-14

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 (Landowner if borehole is not for a water well)	Well or Borehole Location
Owner Name: <u>Hal Con Resources</u>	Latitude: <u>31°04'31.0"</u> Longitude: <u>91°10'51.6</u>
Mailing Address: <u>1000 Louisiana St ste 6700</u> <u>Houston TX 77002</u>	Method of Lat/Long (check one): Conventional Survey _____ USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____ <u>SE ¼ SE ¼, Sec 15^A T 1N R 1W</u>
City _____ State _____ Zip Code _____	<u>6</u> Miles <u>W</u> of <u>Centerville</u> (Distance) (Direction) (Nearest Town)
Telephone No. (____) _____	

Well / Borehole Data

Date drilling started: 4-9-14 Date drilling completed: 4-11-14 Hole depth: 683 Hole diameter: 7"
 Location of the source of any surface water used for drilling: water well
 Method of dosing and volume of Chlorine used in drilling and development: add 4 gallons bleach
 Logs run (circle all applicable): No log run Electric Gamma Ray Density Sonic Neutron Other: _____
 Name of organization running log(s): _____
 Purpose of borehole (circle 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 (circle all applicable): Home Industrial Public Supply Irrigation Fish Culture
 Other (describe): frac supply
 If a flowing well, method of flow regulation: Valve _____ Other (describe) _____
 Static Water Level: 228 feet [above or below land surface Date measured: 4-11-14
 (circle one)
 Method of measurement (circle one): Steel tape Electric tape Air line Other (describe): _____
 Well depth: 680 Well grouted to a depth of: 50 feet Type of grout (circle one): Neat Cement Bentonite Mix
 Casing length: 620 feet Casing diameter: 4 inches Type of casing: PVC
 Screen length: 60 feet Screen diameter: 4 inches Type of screen: PVC slotted
 Screen slot size: .010 inches Setting depth: From 620 feet to 680 feet
 Type of completion (circle all applicable): Gravel packed Underreamed Open hole Natural Development
 Other (describe): _____
 Top of lap pipe or reduction in casing: _____ feet

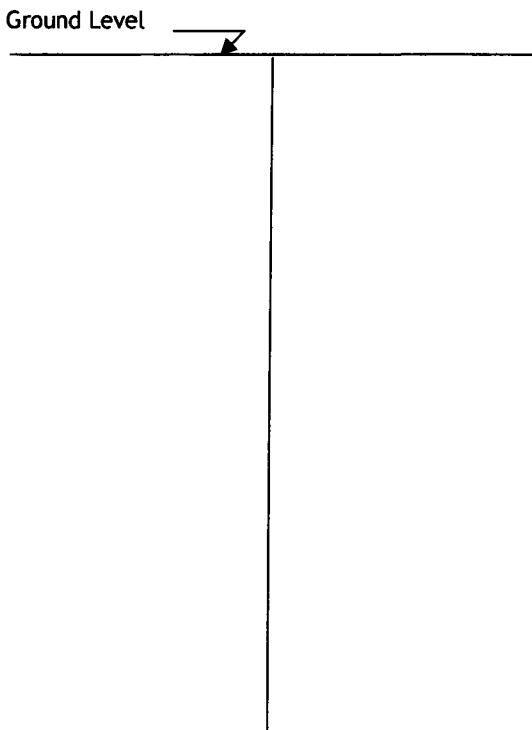
If telescoped or more than one screen, describe on next page

County: _____
 Permit #: _____

For Office Use Only:
 Well #: 568

The sketch below only required for water wells

If well telescopes, show depths on sketch.



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

Description of Formations Encountered	From (depth)	To (depth)
Clay	Ground level	20
Clay, sand + gravel	20	120
Clay	120	300
Clay + sand	300	340
Clay	340	460
Sand + clay	460	520
Clay + shale	520	610
sand	610	675
Clay	675	683

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

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Landowner Name: Hal Con Resources

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.

John W Thompson 0-679 4-16-14 John W Thompson
 Print Name of Responsible Licensee and License No. Date 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 2309
 Jackson, MS 39225-2309
 (601)961-5210
 (601) 360-0535 (fax)

For Office Use Only:

Well #: 568
 Aquifer: _____

County: Wilkinson
 Permit #: _____
 Driller: John W Thompson
 Date completed: 4-11-14
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>Hal Con Resources</u>	Latitude: <u>31°04'31.0"</u> Longitude: <u>91°10'51.6"</u>
Mailing Address: <u>1000 Louisiana st ste 600</u> <u>Houston TX 77002</u>	Method of Lat/Long (check one): Conventional Survey _____, USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____
City _____ State _____ Zip Code _____	<u>SE</u> ¼ <u>SE</u> ¼, Sec. <u>14</u> T <u>1N</u> R <u>1W</u>
Telephone No. (____) _____	<u>6</u> Miles <u>W</u> of <u>Centerville</u> (Distance) (Direction) (Nearest Town)

Pump Type (circle one)

Submersible Turbine Air Lift Centrifugal Flowing Well Jet Piston Rotary Other (describe): _____

Date Pump Installed: _____ Rated Pump Capacity: 75 Gallons Per Minute

Is This Pump (circle one): New Repaired Replacement

Power Type (circle one)

Electric Diesel Gasoline Natural Gas Tractor PTO Windmill Other (describe): _____

Horse Power Rating of Motor: 10 Setting Depth: 294 feet Number of Stages: _____

Pump Test Data for Non Flowing Well

Date Well Tested: 4-11-14 Duration of Pump Test (minimum 4 hours): 4 hours

Static Water Level (A): 228 Feet Below Land Surface Pumping Water Level (B): 250 Feet Below Land Surface

Drawdown [(B) - (A)]: 22 Feet Below Land Surface Test Pumping Rate: 70 Gallons Per Minute

Method of measurement (circle one): Steel tape Electric tape Air line Other (describe): _____

Pump Test Data for Flowing Well

Measured shut in head: _____ feet.

Well yielded _____ GPM with a drawdown of _____ feet after _____ hours of pumping

Meter Installation

Meter Manufacturer: _____ Meter Serial Number: _____

Meter Model Number/Name: _____ Type of Meter: _____

Totalizer Register Unit and Multiplier Factor (AF x .001, gal x 1000, etc): _____

Installation Date: _____ Meter installed by: _____

Is This Meter (circle one): New Repaired Replacement

Important: By submitting the above information you are certifying that this meter was installed to manufacturer standards. For agricultural wells, a list of approved meters is on the MDEQ website.

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

Print Name of Pump Installer and License No. (if applicable) _____ Date _____ Signature of Pump Installer _____

Frac well #3

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)

COUNTY WELL LOCATED: <u>Wilkinson</u>		WELL NUMBER: <u>15750068</u>
PERMIT NUMBER:	DATE WELL PLUGGED: <u>3-24-16</u>	
NAME OF FIRM PLUGGING WELL: <u>Thompson Brothers Drilling</u>	TELEPHONE NUMBER: <u>601-425-0970</u>	
NAME AND ADDRESS OF CURRENT LANDOWNER: <u>Hal-Con Resources</u> <u>Houston TX 77002</u>		<u>1000 Louisiana st ste 6700</u>
WELL LOCATION:	SECTION: <u>15</u>	TOWNSHIP: <u>1N</u> RANGE: <u>1W</u>
WELL LOCATION: LATITUDE: <u>31° 4' 31.0"</u>	LONGITUDE: <u>91° 10' 51.6"</u>	METHOD (CIRCLE ONE): (1) USGS QUAD (2) CONVENTIONAL SURVEY (3) GPS - HAND HELD OR SURVEY GRADE
DISTANCE: <u>6</u>	DIRECTION: <u>W</u>	NEAREST TOWN: <u>Centerville</u> OTHER LANDMARK:
WELL PURPOSE (HOME, IRRIGATION, MUNICIPAL, ETC.): <u>Rig supply</u>		
NAME OF WELL CONTRACTOR WHO DRILLED THE WELL: <u>Thompson Brothers</u>		
NAME OF LANDOWNER WHEN WELL WAS DRILLED: <u>Hal-Con Resources</u>		

WELL DATA			
WELL DEPTH: <u>680</u>	HOLE DEPTH: <u>683</u>		
CASING DIAMETER (IN.): <u>4</u>	CASING LENGTH (FT.): <u>620</u>	TYPE OF CASING: <u>PVC</u>	
DEPTH TO STATIC WATER LEVEL: <u>228</u>	DATE WELL COMPLETED: <u>4-11-14</u>		
WHY IS THE WELL BEING ABANDONED? <u>No longer needed</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.)

Ran drill pipe to bottom of well.
Pumped bentonite "Groutwell DF" slurry to surface.
Cut casing below ground.

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

John W Thompson 0-679
 PRINT NAME MS LICENSE NUMBER
John W Thompson 3-28-16
 SIGNATURE DATE