WATER WELL RECORD Form WWC-5

Division of Water Resources App. No. 15-193-20926-(Well ID

☑ Original Record ☐ Correction ☐ Change in Well Use

1 LOCATION OF WATER WELL: County: Thomas | Fraction: NW¼ NE¼ SE¼ SE¼ | Section Number: 36 | Township Number: T 7 S | Range Number: R 34 ☐ E ☑ W

2 WELL OWNER: Last Name: First:
Business: Midwest Energy
Address: PO Box 766
Address:
City: Colby State: KS ZIP: 67701

Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: ☐
Colby Cathodic 14-1

3 LOCATE WELL WITH "X" IN SECTION BOX:

N / W / E / S; NW, NE, SW, SE (X in SE); |----------1 mile----------|

4 DEPTH OF COMPLETED WELL: 205 ft.
Depth(s) Groundwater Encountered: 1) ..... ft. 2) ..... ft. 3) ..... ft., or 4) ☑ Dry Well
WELL'S STATIC WATER LEVEL: ..... ft.
☐ below land surface, measured on (mo-day-yr).....
☐ above land surface, measured on (mo-day-yr).....
Pump test data: Well water was ..... ft. after..... hours pumping ..... gpm
Well water was ..... ft. after..... hours pumping ..... gpm
Estimated Yield: .....gpm
Bore Hole Diameter: 18 in. to 205 ft. and ..... in. to ..... ft.

5 Latitude: 39.3976 (decimal degrees)
Longitude: 101.0564 (decimal degrees)
Datum: ☑ WGS 84 ☐ NAD 83 ☐ NAD 27
Source for Latitude/Longitude:
☐ GPS (unit make/model: .....) (WAAS enabled? ☐ Yes ☐ No)
☐ Land Survey ☐ Topographic Map
☐ Online Mapper: .....

6 Elevation: 3161 ft. ☑ Ground Level ☐ TOC
Source: ☐ Land Survey ☐ GPS ☐ Topographic Map ☑ Other KOLAR

7 WELL WATER TO BE USED AS:
1. Domestic: ☐ Household ☐ Lawn & Garden ☐ Livestock
2. ☐ Irrigation
3. ☐ Feedlot
4. ☐ Industrial
5. ☐ Public Water Supply: well ID .....
6. ☐ Dewatering: how many wells? .....
7. ☐ Aquifer Recharge: well ID .....
8. ☐ Monitoring: well ID .....
9. Environmental Remediation: well ID ..... ☐ Air Sparge ☐ Soil Vapor Extraction ☐ Recovery ☐ Injection
10. ☐ Oil Field Water Supply: lease .....
11. Test Hole: well ID ..... ☐ Cased ☐ Uncased ☐ Geotechnical
12. Geothermal: how many bores? ..... a) Closed Loop ☐ Horizontal ☐ Vertical b) Open Loop ☐ Surface Discharge ☐ Inj. of Water
13. ☑ Other (specify): Cathotic Well Permit from KCC

Was a chemical/bacteriological sample submitted to KDHE? ☐ Yes ☑ No If yes, date sample was submitted: .....
Water well disinfected? ☐ Yes ☑ No

8 TYPE OF CASING USED: ☐ Steel ☑ PVC ☐ Other ..... CASING JOINTS: ☑ Glued ☐ Clamped ☐ Welded ☐ Threaded
Casing diameter 12 in. to 40 ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface 0 in. Weight 10.310 lbs./ft. Wall thickness or gauge No. .593
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☐ Fiberglass ☑ PVC ☐ Other (Specify) .....
☐ Brass ☐ Galvanized Steel ☐ Concrete tile ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous Slot ☐ Mill Slot ☐ Gauze Wrapped ☐ Torch Cut ☐ Drilled Holes ☑ Other (Specify) none
☐ Louvered Shutter ☐ Key Punched ☐ Wire Wrapped ☐ Saw Cut ☐ None (Open Hole)
SCREEN-PERFORATED INTERVALS: From 0 ft. to 0 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 0 ft. to 40 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

9 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other .....
Grout Intervals: From 0 ft. to 40 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.
Nearest source of possible contamination:
☐ Septic Tank ☐ Lateral Lines ☐ Pit Privy ☐ Livestock Pens ☐ Insecticide Storage
☐ Sewer Lines ☐ Cess Pool ☐ Sewage Lagoon ☐ Fuel Storage ☐ Abandoned Water Well
☐ Watertight Sewer Lines ☐ Seepage Pit ☐ Feedyard ☐ Fertilizer Storage ☐ Oil Well/Gas Well
☐ Other (Specify) .....
Direction from well? ..... Distance from well? ..... ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	2	surface	168	183	caliche & clay w/sand lenses
2	25	loess	183	191	fine to some med sand w/clay & caliche strk
25	37	clay & caliche w/traces of sand	191	205	caliche & clay w/sand lenses
37	40	clay & caliche w/sand strks			
40	46	fine & med sand & gravel w/clay & caliche			
46	65	clay & caliche w/sand strks			
65	72	fine & med sand & gravel w/clay & caliche	Notes:		
72	110	clay & caliche w/sand strks			
110	168	fine to some med sand w/clay & caliche st			

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was ☑ constructed, ☐ reconstructed, or ☐ plugged under my jurisdiction and was completed on (mo-day-year) 09/22/2014 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 881 This Water Well Record was completed on (mo-day-year) 10/06/2014 under the business name of Woofter Pump and Well, Inc.

Send one copy to WATER WELL OWNER and retain one for your records. Fee of $5.00 for each constructed well.
KS Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-3565.
Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212

1212041

For KCC Use:
Effective Date: 07/12/2014
District # 4
SGA? ☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form CB-1
March 2010
Form must be Typed
Form must be Signed
All blanks must be Filled

CATHODIC PROTECTION BOREHOLE INTENT

Must be approved by the KCC sixty (60) days prior to commencing well.
Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act, MUST be submitted with this form.

Expected Spud Date: 9/1/2014 (month / day / year)

OPERATOR: License# 31089
Name: Midwest Energy, Inc.
Address 1: PO BOX 898
Address 2:
City: HAYS State: KS Zip: 67601 + 0898
Contact Person: Chad Niermeier
Phone: 785-625-3437

CONTRACTOR: License# 554
Name: Jay C. Woofter Pump & Well, Inc.
Type Drilling Equipment: ☑ Mud Rotary ☐ Cable ☐ Air Rotary ☐ Other

Construction Features
Length of Cathodic Surface *(Non-Metallic)* Casing Planned to be set: 20 feet
Length of Conductor pipe *(if any)*: 0 feet
Surface casing borehole size: 14 inches
Cathodic surface casing size: 8 / 12 inches
Cathodic surface casing centralizers set at depths of: 5 ; 15 ; ____ ; ____ ; ____ ; ____ ; ____ ; ____ ; ____ ; ____ ;
Cathodic surface casing will terminate at:
☐ Above surface ☐ Surface Vault ☑ Below Surface Vault
Pitless casing adaptor will be used: ☐ Yes ☑ No Depth ____ feet
Anode installation depths are: 80 ; 90 ; 100 ; 110 ; 120 ; 130 ; 140 ; 150 ; 160 ; 170 ; 180 ; 190 ; 200 ;

Spot Description: ____
NW - NE - SE - SE (Q/Q/Q/Q) Sec. 36 Twp. 7 S. R. 34 ☐ E ☑ W
1169 feet from ☐ N / ☑ S Line of Section
638 feet from ☑ E / ☐ W Line of Section
Is SECTION: ☑ Regular ☐ Irregular?
(Check directions from nearest outside corner boundries)
County: Thomas
Facility Name: Colby Catholic
Borehole Number: 14-1
Ground Surface Elevation: 3162 Estimated MSL
Cathodic Borehole Total Depth: 200 feet
Depth to Bedrock: ____ feet

Water Information
Aquifer Penetration: ☐ None ☑ Single ☐ Multiple
Depth to bottom of fresh water: 220
Depth to bottom of usable water: 220
Water well within one-quarter mile: ☑ Yes ☐ No
Public water supply well within one mile: ☐ Yes ☑ No
Water Source for Drilling Operations:
☑ Well ☐ Farm Pond ☐ Stream ☐ Other
Water Well Location: N/A
DWR Permit #: Apply if needed.
Standard Dimension Ratio (SDR) is = 26
(Cathodic surface csg. O.D. in inches / MWT in inches = SDR)
Annular space between borehole and casing will be grouted with:
☐ Concrete ☐ Neat Cement ☐ Bentonite Cement ☑ Bentonite Clay
Anode vent pipe will be set at: 3 feet above surface
Anode conductor *(backfill)* material TYPE: Loresco RS3
Depth of BASE of Backfill installation material: 200
Depth of TOP of Backfill installation material: 50
Borehole will be Pre-Plugged? ☐ Yes ☑ No

AFFIDAVIT

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101 et. seq.

It is agreed that the following minimum requirements will be met:

1. *Notify the appropriate District office prior to spudding and again before plugging the well. An agreement between the operator and the District Office on plugs and placement is necessary prior to plugging. In all cases, notify District Office prior to any grouting.*
2. *Notify appropriate District Office 48 hours prior to workover or re-entry.*
3. *A copy of the approved notice of intent to drill shall be posted on each drilling rig.*
4. *The minimum amount of cathodic surface casing as specified below shall be set by grouting to the top when the cathodic surface casing is set.*
5. *File all required forms: a. File Drill Pit Application (form CDP-1) with Intent to Drill (form CB-1). b. File Certification of Compliance with Kansas Surface Owner Notification Act (form KSONA-1) with Cathodic Protection Borehole Intent (CB-1) c. File Completion Form (ACO-1) within 30 days from spud date. d. Submit plugging report (CP-4) within 30 days after final plugging is completed.*

Submitted Electronically

For KCC Use ONLY
API # 15 - 15-193-20926-00-00
Conductor pipe required 0 feet
Minimum Cathodic Surface Casing Required: 20 feet
Approved by: Rick Hestermann 07/07/2014
This authorization expires: 07/07/2015
(This authorization void if drilling not started within 12 months of approval date.)
Spud date: ____ Agent: ____

If this permit has expired or will not be drilled, check a box below, sign, date and return to the address below.
☐ *Permit Expired* ☐ *Well Not Drilled*

Date *Signature of Operator or Agent*

36 — 7 — 34 ☐ E ☑ W

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202