

WATER WELL RECORD (WWC-5)

KOLAR DOC ID _____ WELL ID _____
 Original Record Correction Change in Well Use

LOCATION OF WATER WELL

Latitude		Longitude		Section		Township		Range		E W	Fraction		¼		¼		¼
Datum		Elevation		County													

WATER WELL OWNER

Name	
Business	
Address	
Well location	
at owner's address	

WELL WATER USE

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COMPLETION

Depth of completed well: _____ ft.
 Depth(s) groundwater encountered:
 (1) _____ ft.; (2) _____ ft.;
 (3) _____ ft.; (4) dry well

Static water level in well: _____ ft.
 measured below land surface on (mm/dd/yy): _____
 measured above land surface on (mm/dd/yy): _____

Estimated yield: _____ gpm
 Water level was: _____ ft. after _____ hours
 pumping _____ gpm

Pump installed? Yes No

Water well disinfected? Yes No
 Date disinfected (mm/dd/yy): _____

Aquifer, if known: _____

NEAREST SOURCE OF POTENTIAL CONTAMINATION

Source: _____
 Distance from well: _____ Direction from well: _____
 Source description: _____

Source: _____
 Distance from well: _____ Direction from well: _____
 Source description: _____

No potential source of contamination within 100 feet.

CONSTRUCTION

Borehole interval: from _____ to _____ ft.	Borehole diameter: _____ in.
from _____ to _____ ft.	_____ in.
Casing height above land surface: _____ in. If casing height is less than 12 in. has a variance been approved? * Yes No *variance not required for monitoring or environmental remediation wells	
Casing type: _____	
Blank casing interval: _____ ft. to _____ ft.	
Blank casing diameter: _____ in.	
Casing joints: _____	
Weight: _____ lbs/ft.	
Wall thickness or gauge no.: _____	
Blank casing interval: _____ ft. to _____ ft.	
Blank casing diameter: _____ in.	
Casing joints: _____	
Weight: _____ lbs/ft.	
Wall thickness or gauge no.: _____	
Grout interval: _____ ft. to _____ ft.	
Grout material: _____	
Grout interval: _____ ft. to _____ ft.	
Grout material: _____	
Screen / perforation material: _____	
Screen / perforation openings: _____	
Screen / perforation intervals: From _____ ft. to _____ ft.	
Slot size _____ unit _____	
From _____ ft. to _____ ft.	
Slot size _____ unit _____	
Gravel pack intervals: Gravel pack not used: Gravel size _____ in	
From _____ ft. to _____ ft.	
Gravel pack not used: Gravel size _____ in	
From _____ ft. to _____ ft.	

PERMIT & ID NUMBERS (AS REQUIRED)

DWR Application No.: _____
 KDHE / EPA Project Code: _____
 Site Name: _____
 KDHE UIC Class V Form Completed: Yes No
 County Permit: Yes No Permit ID: _____
 Lease Name & Well #: _____
 # of boreholes: _____ # of dewatering wells: _____

LITHOLOGIC LOG

FROM	TO	LITHOLOGY INTERVALS

COMMENTS

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CONTRACTOR'S OR LANDOWNERS CERTIFICATION

This water well was constructed reconstructed pursuant to the stated water well contractor's license and was completed on _____. I certify that this record is true to the best of my knowledge and belief. This water well record was completed on _____ under the business name of _____, Kansas Water Well Contractor's License No. _____ under the authority of the designated person as defined in K.A.R. 28-30-2(j) and signed and certified by the electronic signature of the designated person at its submittal: _____.

Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Celsius Geothermal Well LTC-T2

API:

Location: Lawrence, KS

License Number:

Spud Date: 8/9/2022

Surface Coordinates:

Region: Midwest

Drilling Completed:

Bottom Hole

Coordinates:

Ground Elevation (ft):

Logged Interval (ft): 0 To: 700

Formation: Kansas City Group

Type of Drilling Fluid: Water

K.B. Elevation (ft): 797

Total Depth (ft):

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Celsius Ehergy

Address: 1 Hampshire St
Cambridge, MS 02139

GEOLOGIST

Name: Chuck Shepherd

Company: Edge Systems

Address:

Wireline Logs

ROCK TYPES

- Cmt
- Anhy
- Bent
- Brec
- Cht

- Clyst
- Sand
- Congl
- Dol
- Gyp

- Igne
- Lmst
- Meta
- Mrlst
- Salt

- Shale
- Shcol
- Shgy
- Sltst
- Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvmin
- Kaol
- Marl

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral

- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

INTERVALS

- Core
- Dst

EVENTS

- Rft
- Casing

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

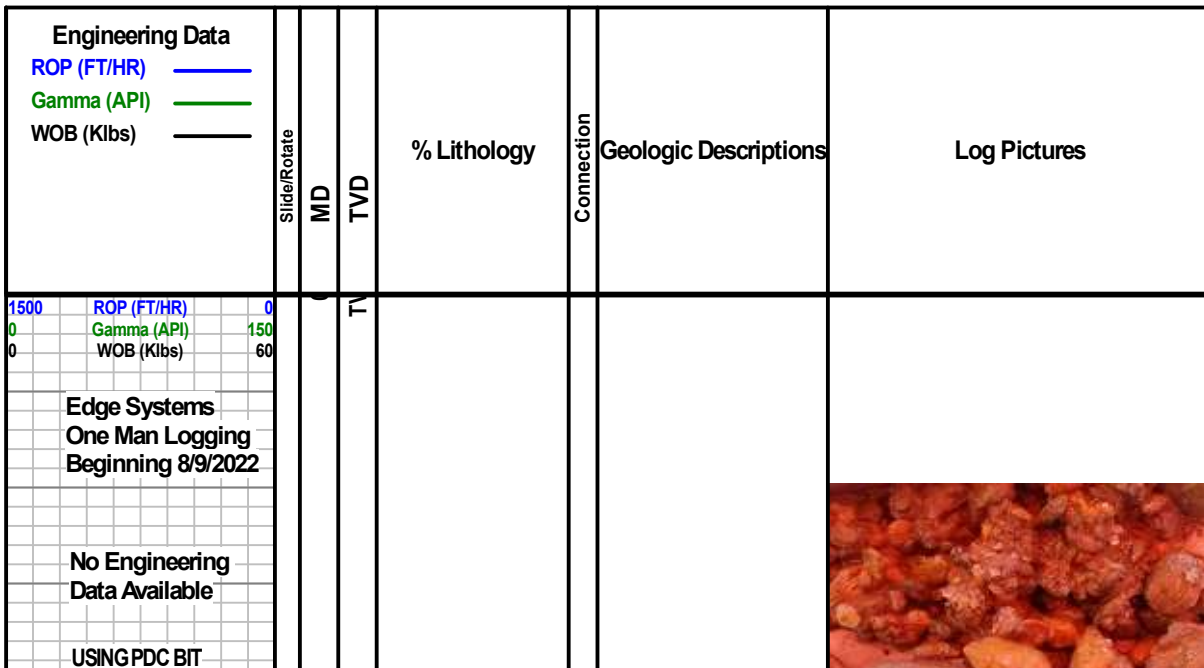
ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead



TOP OREAD LS FM
ESTIMATED @ -60' MD

NO SAMPLE AVAILABLE
@ 90' MD

NO SAMPLE AVAILABLE
@ 120' MD

NO SAMPLE AVAILABLE
@ 130' MD

NO SAMPLE AVAILABLE
@ 140' MD

NO SAMPLE AVAILABLE
@ 150' MD

HIT WATER AT 155' MD
NO SAMPLE AVAILABLE
@ 160' MD

ESTIMATED TOP OF THE
LAWRENCE GROUP, IRELAND
SANDSTONE 160' MD

Set casing at ~184' MD.

NO SAMPLE AVAILABLE
@ 190' MD

1500	ROP (FT/HR)	0
0	Gamma (API)	150
0	WOB (Klbs)	60

ESTIMATED TOP OF ROBBINS
SHALE MBR @ 200' MD

BLACK WATER COMING BACK IN
RETURNS @ -250' MD

50

100

150

200

250

TVD



SH: GY-DK GY, V SFT,
BLKY-SBBLKY, V CALC,
TR CHT

50



SH: GY-DK GY, SFT-HD,
BLKY-SBBLKY, V CALC,
TR CHT

80



LS: GY-DK GY, OCC DR
BRN, MDST,
MXLN-CRSXLN, MASS, V
ARG, FOSS FRAG

110



SD: LT-CRM, OCC WH,
MED-CRS, VP SRT, ANG,
SBANG, UNCONS, FOSS
FRAG, NO CMT

170



SD: LT-CRM, OCC WH,
MED-CRS, VP SRT, ANG,
SBANG, UNCONS, FOSS
FRAG, NO CMT

200



LS: GY-DK GY, OCC LT
GY, MDST, MXLN-
CRSXLN, MASS, V ARG,
FOSS FRAG

230



SH: GY-DK GY, OCC BLK,
FRM-HD, BLKY-SBBLKY,
BRIT IP, V CALC

260



ROP @ 110 FT/HR

ESTIMATED TOP OF THE TONGANOXIE SS @ 320' MD

COAL SEEM AT THE BASE OF THE TONGANOXIE

ESTIMATED TOP OF IATAN LS MBR OF THE STANTON GROUP @ 410' MD

ESTIMATED TOP OF THE KANSAS CITY GROUP, COTTAGE GROVE SS MBR 450' MD

1500	ROP (FT/HR)	0
0	Gamma (API)	150
0	WOB (Klbs)	60

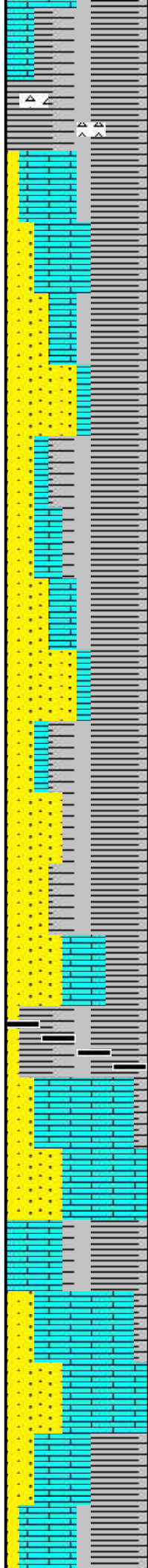
300

350

400

450

TVD



SH: GY-DK GY, OCC BLK, FRM-HD, BLKY-SBBLKY, BRIT IP, V CALC

SD: GY-DK GY, MED-CRS, VP SRT, ANG, SBANG, UNCONS, FOSS FRAG, NO CMT

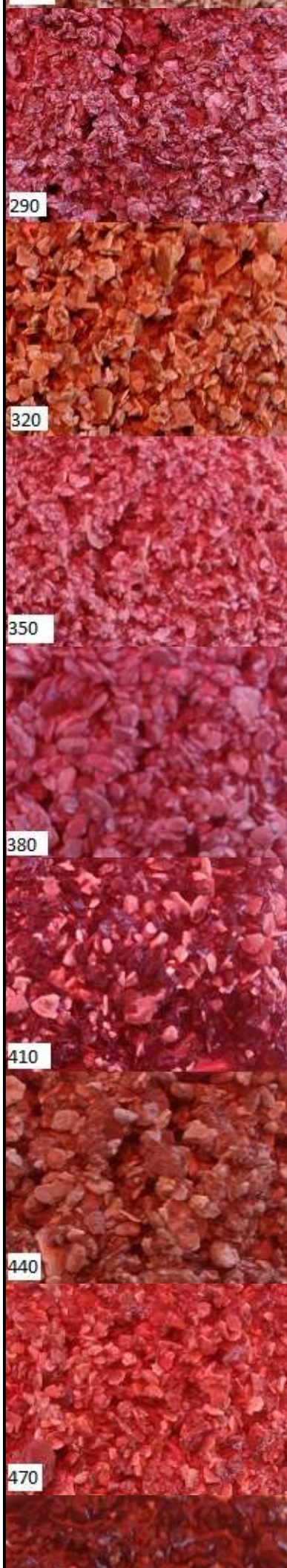
SH: LT GY-DK GY, OCC BLK, FRM-HD, BLKY-SBBLKY, BRIT IP, V CALC

SH: LT GY-DK GY, OCC BLK, FRM-HD, BLKY-SBBLKY, BRIT IP, V SLTY, V CALC

SH: LT GY-DK GY, OCC BLK, FRM-HD, BLKY-SBBLKY, BRIT IP, V SLTY, V CALC, HVY COAL

SH: LT GY-DK GY, OCC BLK, FRM-HD, BLKY-SBBLKY, BRIT IP, V SLTY, V CALC

LS: LT GY-GY, OCC DK GY, MDST, MXLN-CRSXLN, MASS, V ARG



290

320

350

380

410

440

470

THAYER COAL BED @500' MD

ESTIMATED TOP OF NOXIE SS @520' MD

NO SAMPLE AVAILABLE @550' MD

NO SAMPLE AVAILABLE @560' MD

1500	ROP (FT/HR)	0
0	Gamma (API)	150
0	WOB (Klbs)	60

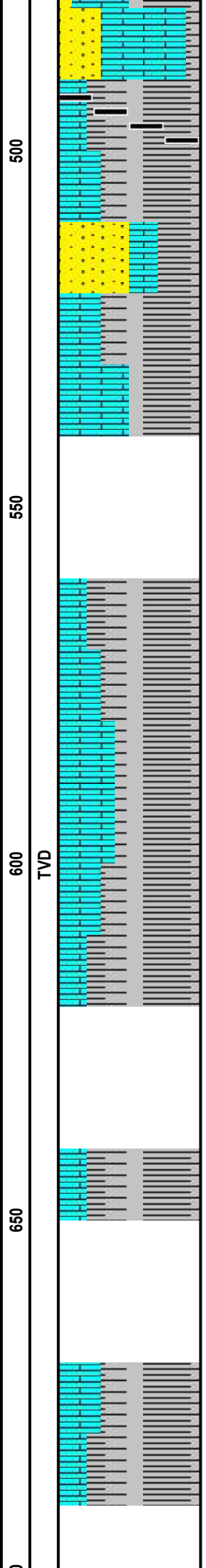
NO SAMPLE AVAILABLE @630' MD

NO SAMPLE AVAILABLE @640' MD

NO SAMPLE AVAILABLE @660' MD

NO SAMPLE AVAILABLE @670' MD

NO SAMPLE AVAILABLE @700' MD



SH: DK GY-BLK, FRM-HD, BLKY-SBBLKY, BRIT IP, V SLTY, V CALC, HVY COAL

SH: DK GY-BLK, FRM-HD, BLKY-SBBLKY, BRIT IP, V SLTY, V CALC, HVY COAL

LS: GY-DK GY, OCC BLK, MDST, MXLN-CRSXLN, MASS, VARG

SH: DK GY-BLK, FRM-HD, BLKY-SBBLKY, BRIT IP, V SLTY, V CALC

SH: DK GY-BLK, FRM-HD, BLKY-SBBLKY, BRIT IP, V SLTY, V CALC

SH: DK GY-BLK, FRM-HD, BLKY-SBBLKY, PLTY IP, V SLTY, V CALC



