

**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<br>W | Fraction |  | ¼ |  | ¼ |  | ¼ |
| Datum    |  | Elevation |  | County  |  |          |  |       |  |        |          |  |   |  |   |  |   |

**WATER WELL OWNER**

|                    |  |
|--------------------|--|
| Name               |  |
| Business           |  |
| Address            |  |
| Well location      |  |
| at owner's address |  |

**WELL WATER USE**

|  |
|--|
|  |
|--|

**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:   | Borehole diameter: |
| from _____ to _____ ft.  | _____ 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 |
|------|----|---------------------|
|      |    |                     |
|      |    |                     |
|      |    |                     |
|      |    |                     |
|      |    |                     |
|      |    |                     |
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|      |    |                     |

**COMMENTS**

|  |
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|  |
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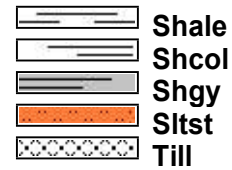
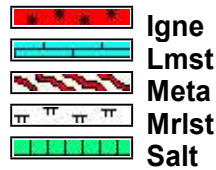
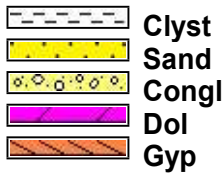
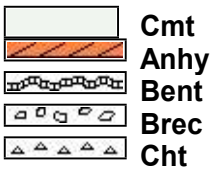
**CONTRACTOR'S OR LANDOWNERS CERTIFICATION**

|   |
|---|
| 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.

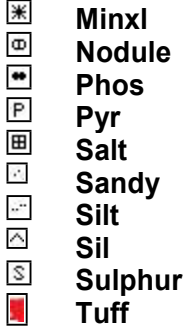
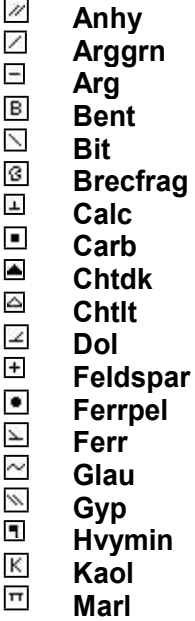


### ROCK TYPES

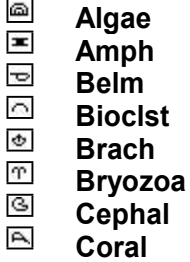


### ACCESSORIES

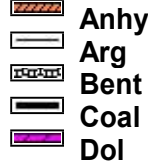
#### MINERAL



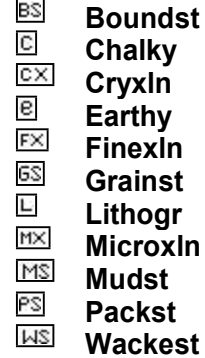
#### FOSSIL



#### STRINGER



#### TEXTURE



### OTHER SYMBOLS

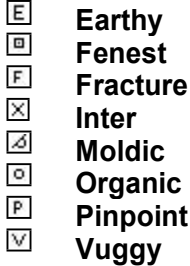
#### INTERVALS



#### EVENTS



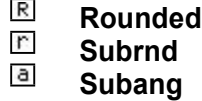
#### POROSITY TYPE



#### SORTING



#### ROUNDING



#### OIL SHOWS



| Engineering Data              |             |            | Slide/Rotate | MD | TVD | % Lithology | Connection | Geologic Descriptions | Log Pictures |
|-------------------------------|-------------|------------|--------------|----|-----|-------------|------------|-----------------------|--------------|
| ROP (FT/HR)                   | Gamma (API) | WOB (Klbs) |              |    |     |             |            |                       |              |
| 1500                          | 0           | 0          |              |    |     |             |            |                       |              |
| 0                             | 150         | 60         |              |    |     |             |            |                       |              |
| 0                             |             |            |              |    |     |             |            |                       |              |
| Edge Systems                  |             |            |              |    |     |             |            |                       |              |
| One Man Logging               |             |            |              |    |     |             |            |                       |              |
| Beginning 8/9/2022            |             |            |              |    |     |             |            |                       |              |
| No Engineering Data Available |             |            |              |    |     |             |            |                       |              |
| USING PDC BIT                 |             |            |              |    |     |             |            |                       |              |



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



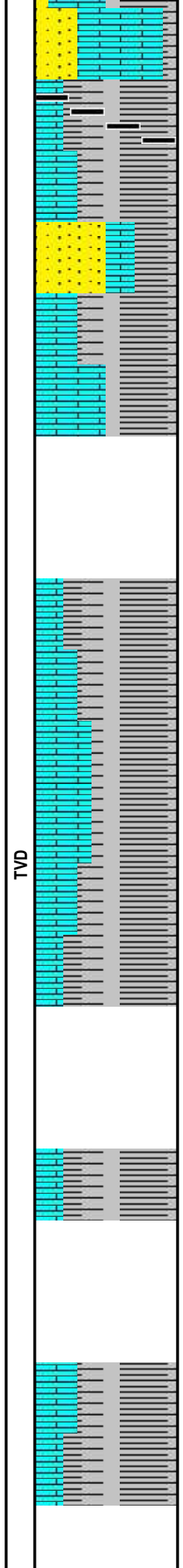
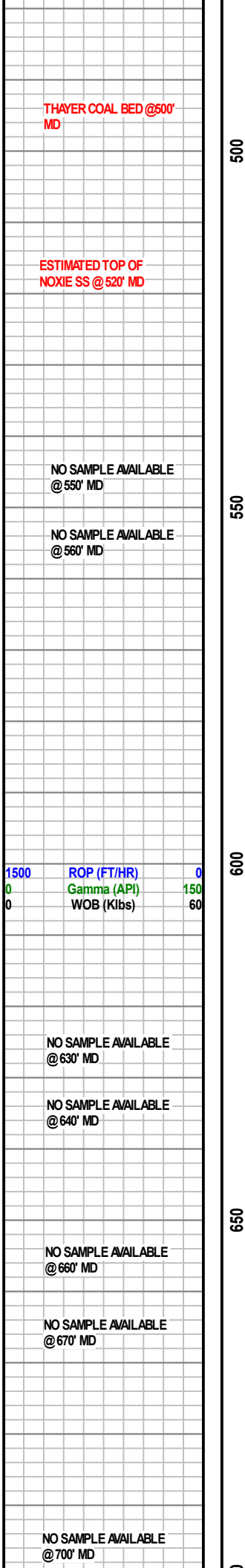
SH: GY-DK GY, OCC BLK,  
FRM-HD, BLKY-SBBLKY,  
BRIT IP, V CALC

260









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





