

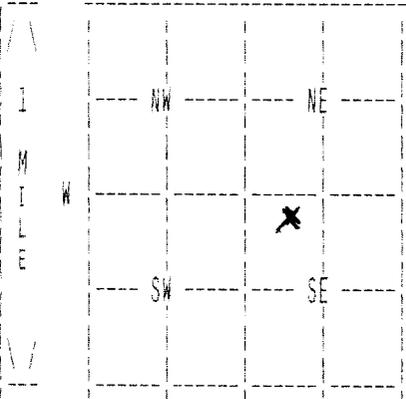
WATER WELL RECORD FORM WWC-5 KSA 82A-1212

1 LOCATION OF WATER WELL: COUNTY: 041 HASKELL FRACTION: NE 1/4 NW 1/4 SE 1/4 SECTION NUMBER: 22 TOWNSHIP NUMBER: T 28 RANGE NUMBER: R 31 W

DISTANCE AND DIRECTION FROM NEAREST TOWN OR CITY STREET ADDRESS OF WELL IF LOCATED WITHIN CITY?
FROM SULBETTE; APPX 7 MILES NORTH & 8 MILES EAST

2 WATER WELL OWNER: LAWRENCE WITHERS RR#, ST. ADDRESS, BOX #: 2298 90TH ROAD CITY, STATE, ZIP CODE : COPELAND, KS 67837-7035 BOARD OF AGRICULTURE, DIVISION OF WATER RESOURCES North well of Battery APPLICATION NUMBER: 11280

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 513 ELEVATION: 0 DEPTH(S) GROUNDWATER ENCOUNTERED 1. 0 FT. 2. 0 FT. 3. 0 FT.

WELL'S STATIC WATER LEVEL 300 FT. BELOW LAND SURFACE MEASURED ON MO/DAY/YR 12/02/02 PUMP TEST DATA: WELL WATER WAS 377 FT. AFTER 4 HOURS PUMPING 1150 GPM

ESTIMATED YIELD 0 GPM; WELL WATER WAS 0 FT. AFTER 0 HOURS PUMPING 0 GPM

BORE HOLE DIAMETER 24 IN. TO 513 FT., AND IN. TO 0 FT.

WELL WATER TO BE USED AS: 02 IRRIGATION

WAS A CHEMICAL/BACTERIOLOGICAL SAMPLE SUBMITTED TO DEPARTMENT? No ; IF YES, MO/DAY/YR SAMPLE WAS SUBMITTED WATER WELL DISINFECTED? Yes

5 TYPE OF BLANK CASING USED: 01 STEEL CASING JOINTS: WELDED BLANK CASING DIAMETER 16 IN. TO 513 FT., DIA IN. TO 0 FT., DIA IN. TO 0 FT. CASING HEIGHT ABOVE LAND SURFACE 12 IN., WEIGHT 42 LBS/FT. WALL THICKNESS OR GAUGE NO. .250 TYPE OF SCREEN OR PERFORATION MATERIAL: 01 STEEL SCREEN OR PERFORATION OPENINGS ARE: 01 CONT. SLOT

SCREEN PERFORATED INTERVALS: FROM 382 FT. TO 412 FT., FROM 0 FT. TO 0 FT. FROM 423 FT. TO 493 FT., FROM 0 FT. TO 0 FT. GRAVEL PACK INTERVALS: FROM 20 FT. TO 513 FT., FROM 0 FT. TO 0 FT. FROM 0 FT. TO 0 FT., FROM 0 FT. TO 0 FT.

6 GROUT MATERIAL 03 BENTONITE GROUT INTERVALS: FROM 0 FT. TO 20 FT., FROM 0 FT. TO 0 FT., FROM 0 FT. TO 0 FT. WHAT IS THE NEAREST SOURCE OF POSSIBLE CONTAMINATION: IRRIGATION WELL DIRECTION FROM WELL? SOUTHEAST HOW MANY FEET? 630

| FROM | TO | LITHOLOGIC LOG | FROM | TO | PLUGGING INTERVALS |
|------|-----|--------------------------------------|------|----|--------------------|
| 0 | 1 | 02 SILT | | | |
| 1 | 20 | 04 SANDY CLAY 31 CALICHE | | | |
| 20 | 89 | 04 SANDY CLAY 05 SAND | | | |
| 89 | 97 | 04 SANDY CLAY 05 SAND | | | |
| 97 | 120 | 04 SANDY CLAY 05 SAND | | | |
| 120 | 152 | 05 SAND 01 CLAY | | | |
| 152 | 166 | 05 SAND 13 FINE GRAVEL 14 MED GRAVEL | | | |
| 166 | 182 | 04 SANDY CLAY 05 SAND | | | |
| 182 | 218 | 05 SAND 11 GRAVEL 01 CLAY | | | |
| 218 | 225 | 04 SANDY CLAY 05 SAND | | | |

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: THIS WATER WELL WAS CONSTRUCTED UNDER MY JURISDICTION AND WAS COMPLETED ON (MO/DAY/YEAR) 11/27/02 AND THIS RECORD IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF. KANSAS WATER WELL CONTRACTOR'S LICENSE NO. 145 THIS WATER WELL RECORD WAS COMPLETED ON (MO/DAY/YR) 12/30/02 UNDER THE BUSINESS NAME OF HENKLE DRILLING & SUPPLY BY (SIGNATURE)

(CONTINUED)

WATER WELL RECORD Form WWC-5 KSA 82A-1212

| | | | | |
|--------------------------------------------------|----------------------------------|----------------------|---------------------------|------------------------|
| 1 LOCATION OF WATER WELL: COUNTY: 041 HASKELL | FRACTION SE 1/4 NW 1/4 SE 1/4 | SECTION NUMBER 22 | TOWNSHIP NUMBER T 28 S | RANGE NUMBER R 31 W |
|--------------------------------------------------|----------------------------------|----------------------|---------------------------|------------------------|

2 WATER WELL OWNER: LAWRENCE WITHERS
 RR#, ST. ADDRESS, BOX #: 2298 90TH ROAD
 BOARD OF AGRICULTURE, DIVISION OF WATER RESOURCES

CITY, STATE, ZIP CODE : COPELAND, KS 67837-7035
 APPLICATION NUMBER: 11280

| FROM | TO | LITHOLOGIC LOG |
|------|-----|--------------------------------|
| 225 | 245 | 05 SAND 13 FINE GRAVEL 01 CLAY |
| 245 | 274 | 01 CLAY 05 SAND |
| 274 | 335 | 01 CLAY |
| 335 | 354 | 05 SAND 01 CLAY |
| 354 | 382 | 01 CLAY |
| 382 | 402 | 05 SAND 13 FINE GRAVEL 01 CLAY |
| 402 | 418 | 04 SANDY CLAY 05 SAND |
| 418 | 424 | 01 CLAY 04 SANDY CLAY |
| 424 | 493 | 05 SAND 13 FINE GRAVEL 01 CLAY |
| 493 | 517 | 04 SANDY CLAY 01 CLAY 05 SAND |
| 517 | 590 | 04 SANDY CLAY 01 CLAY |
| 590 | 660 | 19 SHALE 01 CLAY |

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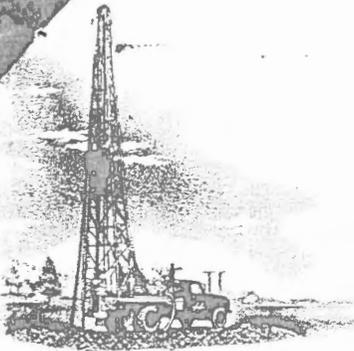
Bruce J. Reichardt

Henkle

DRILLING & SUPPLY CO., INC.

3795 W. JONES AVE.
316/277-2389
FAX/277-0224

P.O. Box 639
GARDEN CITY, KANSAS 67846



CUSTOMER'S NAME Lawrence Withers DATE 11-20-02
STREET ADDRESS 2298 90th Rd. TEST # 2 E. LOG
CITY & STATE Copeland, KS 67837 DRILLER Juan Muñoz
COUNTY Haskell QUARTER SE SECTION 22 TOWNSHIP 28 RANGE 31

LOCATION GPS-37° 35' 56" N, 100° 41' 33" W / From old well, 585' N and 235' W. - WELL LOCATION

| % | FOOTAGE | | | DESCRIPTION OF STRATA | STATIC WATER LEVEL: <u>325'</u> | |
|-----|---------|-----|-----|--------------------------------------------------------------------------|----------------------------------|--|
| | From | Pay | To | | Proposed Well Depth: <u>513'</u> | |
| | 0 | | 1 | Surface | | |
| | 1 | | 20 | Brown-white sandy clay, few caliche | | |
| | 20 | | 89 | Brown-white sandy clay, very few sand streaks | | |
| | 89 | | 97 | Brown sandy clay, few sand streaks | | |
| | 97 | | 120 | Brown sandy clay, some sand streaks (tight in places) | | |
| | 120 | | 152 | Sand fine to med coarse, few clay streaks | | |
| | 152 | | 166 | Sand fine to med coarse, few small to med gravels (loose) | | |
| | 166 | | 182 | Brown sandy clay, few sand streaks | | |
| | 182 | | 218 | Sand fine to med coarse, few small to med gravels, few clay streaks | | |
| | 218 | | 225 | Brown sandy clay, some sand streaks | | |
| | 225 | | 245 | Sand fine to med coarse, few small to med gravels, few clay streaks | | |
| | 245 | | 274 | Blue clays, some brown clay streaks (Sticky in places), few sand streaks | | |
| | 274 | | 335 | Blue clay (Sticky in places) | | |
| | 335 | | 354 | Blue sand fine to med coarse, few blue clay streaks | | |
| | 354 | | 382 | Blue clay (Sticky in places), few brown clays | | |
| 30% | 382 | 20 | 402 | Sand fine to med coarse, few small gravels, few clay streaks | | |
| | 402 | | 418 | Brown sandy clay, few sand streaks | | |
| | 418 | | 424 | Blue clay, few white sandy clays | | |
| 30% | 424 | 69 | 493 | Sand fine to med coarse, few small gravels, few clay streaks | | |
| | 493 | | 517 | Brown sandy clay, few blue clays, cemented in places, few sand streaks | | |
| | 517 | | 540 | Brown sandy clay, some blue clays, cemented in places (Firm & Sticky) | | |
| | 540 | | 660 | Black shale, some hard brown clays (Hard in places) | | |
| | | 89 | | | | |

Bedrock @ 590

- Test Rig
- Set up East
- Pits South
- 2- QuikGel
- 6- Aquacuard
- 6- Hilti
- 1- Round Plug
- 1- Set of 4 3/4" Drag Blades