

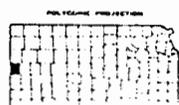
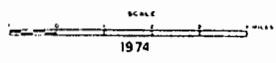
SW-5W-16-18S-40W

LEGEND

- | ROADS AND ROADWAY FEATURES                          |     | ROAD SYSTEM DESIGNATION                        |    |
|---|-----|--|----|
| PRIMITIVE ROAD                                      | --- | FEDERAL AID INTERSTATE HIGHWAY SYSTEM          | == |
| UNIMPROVED ROAD                                     | --- | FEDERAL AID PRIMARY HIGHWAY SYSTEM             | == |
| GRAVEL AND DRAINED ROAD                             | --- | FEDERAL AID SECONDARY HIGHWAY SYSTEM           | == |
| SLUR SURFACED ROAD                                  | --- | INTERSTATE NUMBERED HIGHWAY                    | == |
| GRAVEL ON STONE ROAD - UNSTABILIZED                 | --- | U.S. NUMBERED HIGHWAY                          | == |
| GRAVEL ON STONE ROAD - DRAINED                      | --- | STATE HIGHWAY SYSTEM OR STATE NUMBERED HIGHWAY | == |
| GRAVEL ON STONE ROAD - UNGRAVELLED AND UNGRAINED    | --- | END OF DESIGNATED SYSTEM OR MAINTAINED ROUTE   | == |
| GRAVEL ON STONE ROAD WITH STABILIZED SURFACE        | --- |  |    |
| BITUMINOUS ROAD - LOW TYPE                          | --- |  |    |
| PAVED ROAD  | --- |  |    |
| DIVIDED HIGHWAY                                     | --- |  |    |
| HIGHWAY WITH FULL CONTROL OF ACCESS AND INTERCHANGE | --- |  |    |

GENERAL HIGHWAY MAP  
**GREELEY COUNTY**  
 KANSAS

PREPARED BY THE  
 STATE HIGHWAY COMMISSION OF KANSAS  
 DEPARTMENT OF PLANNING AND DEVELOPMENT  
 IN COOPERATION WITH THE  
 U.S. DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION



SCOUNDING DATA

KANSAS DEPARTMENT OF TRANSPORTATION

Sheet of

COUNTY <u>Greeley</u>	PROJECT NO. <u>27-36-K1493-01</u>	BRIDGE NO. <u>15.29</u>
STA. <u>43+75.50</u>	NAME <u>White Woman Cr.</u> STA. <u>44+13</u>	LT <u>20</u> SOUND. NO. <u>1</u>
GROUNDWATER EL. <u>3516.2</u>	VERTICAL SCALE <u>1 inch = 10 feet</u>	DATE <u>May 1981</u>
B.M. NO. <u>4</u>	B.M. EL. <u>3559.19</u>	SUBMITTED BY <u>Gary Krontz</u>

POINT	B.S.	H.I.	F.S.	ELEV.	POINT	B.S.	H.I.	F.S.	ELEV.
BM#4				3559.19					
T	3.13	3562.32							
CD#1			20.50	3541.82					
BM#4			3.14	3559.18					

FORM	BIT	EL.	LOG	ACC. DEP.	GEOLOGIC DESCRIPTION AND REMARKS	CASING DRIVE REC. DEPTH	BL/10
					T.H.E. 3541.8		
Alluvium	5 1/2" Hawthorne Core	3540		2.0	Sandy Silty Clay, asphalt etc.		
				6.7	Sand and Small gravel (granitic) losing H <sub>2</sub> O		
				12.2	Firmer Clay, Sandy, mostly soft Some small caliche nodules		
Ogallala Formation	NXM Core Barrel	3530	4" Casing	14.2	Firmer yet (very little chatter in zones) very fine sand with caliche type cement, tan to off-white - not real tough cuttings crumples easily Stopped to set casing and try to core, pushed casing to 13 1/2 - drove to 13 1/2, bottom of casing drove fairly firm. Cleaned hole to 14 1/2		
				19.2	Top of Core #1 Cut 5 1/2 Rec. 0 1/2 Core cut very soft (drilled w/ rods weight) (fine grained sand on bit of core barrel)		
				29.0	drilled on w/ N-Hawthorne to obtain firmer material (fine sand & minor caliche when cleaning hole after Core #1) Sand fine w/ tan to tan-pink silty clay binder Sand fine grained w/ some caliche binder off white to tan drills w/out pressure (caliche appears as nodules and off thin lenses or layers) No chatter somewhat firmer still Caliche and fine sand as above but crumples easily, easy, sand fine, very little binder Slightly firmer sand w/ caliche as above drills slowly w/o pressure no chatter easy, sand fine to very fine clean Some minor binder losing small amount H <sub>2</sub> O		
				33.2			
Smoky Hill Chalk Mbr.	NXM Barrel	3520		34.0	Sand, fine to medium w/ some very small gravel mostly clean with some minor caliche cement, drills easy		
				39.0	in casing lightly cemented sand (off white) caliche Sand & small gravel, fairly clean, some minor pink-tan clay binder (minor cementation)		
				44.0			
		3490		46.9	Top Core #2 Cut 5 1/2 Rec 1 1/2 * 3.6 washed sand & gravel after breaking through cemented zone or float 0.5 large gravel (in barrel) 0.5 cemented sand-gravel, ls frags etc. 0.4 porous chalky limestone yellow-tan 5.0 total cored (Rec. 1 1/2) 3502.8		
				47.0	Top Core #3 Cut 5 1/2 Rec 4 1/2 cut steady and uniform 4 1/2 Porous chalky limestone mealy yellow-tan with a few thin gray streaks 4 1/2 total Rec. 3497.8		
				49.0	Top Core #4 Cut 2 1/2 Rec. 2 1/2 2 1/2 Chalky limestone porous yellow-tan 3494.9		
					TN 419 (3491.9)		