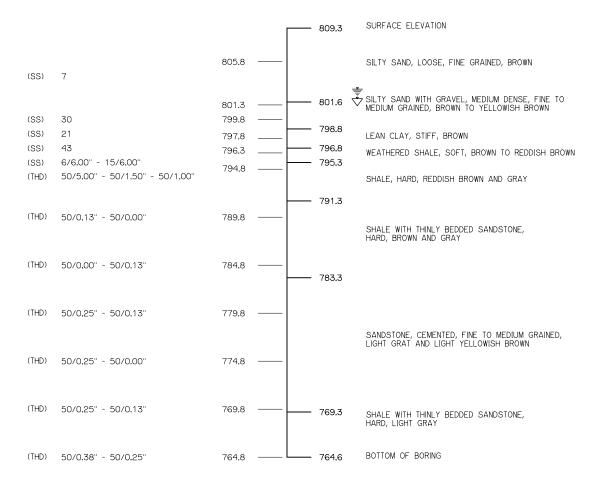
Date Birch

21' RIGHT OF NEW C.R.L. - 820 SURFACE ELEVATION - 819.0 SANDY SILT, MEDIUM DENSE, BROWN -SAND LAYER 815.5 -**-** 815 (SS) 24 SANDY SILT, MEDIUM DENSE, BROWN WITH GRAY 810.5 - 810 (SS) 19 SILTY SAND, MEDIUM DENSE, FINE GRAINED 808.0 YELLOWISH BROWN AND OLIVE (SS) 50/4.00" 807.0 806.5 (THD) 50/0.05" - 50/0.13" 805 SANDSTONE, CEMENTED, FINE TO MEDIUM GRAINED, LIGHT YELLOWISH BROWN AND LIGHT GRAY (THD) 50/0.05" - 50/0.00" 801.5 — - 800 - 799.3 (THD) 50/2.25" - 50/0.05" 796.5 SHALE, HARD, LIGHT GRAY AND OLIVE BROWN **—** 795 (THD) 50/0.13" - 50/0.25" 791.5 —— **—** 790 SANDSTONE, CEMENTED, FINE TO MEDIUM GRAINED, LIGHT GRAY AND BROWN (THD) 50/0 19" - 50/0 00" 786.5 **-** 785 — 781.5 (THD) 50/0.25" - 50/0.06" SHALE WITH THINLY BEDDED SANDSTONE, HARD, LIGHT GRAY - 780 BOTTOM OF BORING (THD) 50/0.25" - 50/0.00" 776.3 —— **L --** 776.3 **-** 775 — 765 **-** 760 **-** 755 — 750 GENERAL SITE GEOLOGY **—** 745 ACCORDING TO THE "ENGINEERING CLASSIFICATION OF GEOLOGIC MATERIALS DIVISION EIGHT" FROM THE OKLAHOMA HIGHWAY DEPARTMENT, 1970, THE SITE APPEARS TO BE LOCATED WITHIN THE VANCOSA UNIT (PVM). A BRIEF DESCRIPTION OF THIS UNIT IS PROVIDED IN THE VAMOOSA UNIT (PVM): THIS UNIT CONSISTS MOSTLY OF SHALE WHICH CONTAINS LENSES OF MASSIVE SANDSTONE AND A FEW THIN LIMESTONES. THE SHALE IS GRAY, GRAYISH GREEN, BLUE-GRAY, OR MAROON, AND IS SILTY TO CLAYEY. — 740 THE VAMOOSA IS IN ZONES RANGING UP TO 100 FEET IN THICKNESS. THE SANDSTONES ARE MOSTLY SOFT TO MODERATELY HARD, BROWN TO TAN, GENERALLY 10 FEET TO 25 FEET OR MORE THICK, AND LOCALLY UP TO ABOUT 100 FEET THICK. APPROXIMATELY 100 FEET ABOVE THE BASE OF THE UNIT, A 10 TO 15 FOOT BED OF HARD SANDSTONE IS PRESENT. **—** 735 THE LAND SURFACE FORMED BY THIS UNIT IS FAIRLY RUGGED AND HILLY. THE SANDSTONES CAP THE HILLS AND FORM SCARPS, WITH THE SHALES FORMING THE STEEP SLOPES AND VALLEYS. THIS UNIT OUTCROPS IN OSAGE AND PAWNEE COUNTIES OF DIVISION EIGHT. **-** 730

BORING B-01

REV. MO. DESCRIPTION REVISIONS DATE

BORING B-02 STA. 1067+35 20' LEFT OF NEW C.R.L.



₩ATER TABLE

ightharpoonup water table at time of drilling

SH-99 OVER BIRCH CREEK OSAGE COUNTY		Design	SBH	5/12	
FOLING ATION DEPOSIT DEPOSIT NO			Detail	WLL	5/12
FOUNDATION REPORT - BRIDGE "C"			Check	SBH	5/12
(SHEET 1 OF 3)			Squad:		
NO. 5730 1228X NBI 30315					
STATE OF DEPARTMENT OF TRANSPORTATION					
OKLAHOMA	JOB PIECE NO. 24261(04)			SHEET NO.	112