Phoenix Geology LLC
PHONE: 785-483-3900 / 1-800-
DRILLING LOG
WELL NAME: Bunkers #1
LOCATION: NW NE NE SW
SEC. 12 TWP. 21 S. RGE. 17 W
COUNTY: Rice STATE: Kansas
ELEVATION: 1681 GL
DATE: 10/8/02 - 10/10/02
TOTAL DEPTH: 3500
CONTRACTOR: Duke Drilling Co. Inc. Rig #3
SURFACE CASING: 8 5/8" @ 224 w/ 160 sx cmt
PRODUCTION CASING: 4 1/2" @ 3500 w/ 125 sx cmt
DRILL STEM TESTS: DST #1 3270-3300 (Arbuckle) 30-45-45-90 IF: BB in 2 min. FF: BB in 5 min. ISIP: 1000 FSIP: 1000 IFP: 31-31 FFP: 41-41 Recovered 90' GCM
ELECTRICAL LOGS: Dual Induction, Dual Compensated Porosity
DRILLING TIME: Kansas Geological Survey
SAMPLES: Kansas Geological Survey
CORES: None
DRILL PIPE: 4 1/2" XH
DRILL COLLARS: 2 7/8" x 2 1/4"
MUD: Chemical
HOLE SIZE: 7 7/8"
TOPS: Anhydrite 1000 (+681); Topeka 3126 (-1445); Heebner 3146 (-1465); Toronto 3166 (-1485); Lansing 3176 (-1495); Muncie Creek 3334 (-1653); Stark 3400 (-1719); Base Kansas City 3456 (-1775); Marmaton 3470 (-1789); Pawnee 3556 (-1875); Fort Scott 3586 (-1905); Cherokee 3612 (-1931); Mississippian 3650 (-1969); Kinderhook 3676 (-1995); Viola 3690 (-2009); Simpson Sand 3698 (-2017); Simpson Shale 3720 (-2039); Arbuckle 3770 (-2089); RTD 3500 (-1819); LTD 3498 (-1817)
NOTE: Bunkers #1 is the Northeast offset to the Bunkers #2 (Sec. 12 NW NW NW SW)
Rice Co., Kansas
Bunkers #1
Phoenix Geology LLC
Date: 10/8/02-10/10/02
Scale: 1" = 50'
Depth Scale: 1" = 100'
Sheet 1 of 2

LEGEND
Anhydrite | Salt | Sandstone | Shale | Dark sh. | Limestone | Ool.Lime | Chert | Dolomite

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases
0" 10" 20" 30" 40"

DEPTH | LITHOLOGY | SAMPLE DESCRIPTIONS | GAMMA RAY | REMARKS

ANHYDRITE 1000 (+681)
TOPEKA 3126 (-1445)
HEEBNER 3146 (-1465)
TORONTO 3166 (-1485)
LANSING 3176 (-1495)
MUNCIE CREEK 3334 (-1653)
STARK 3400 (-1719)
BASE KANSAS CITY 3456 (-1775)
MARMATON 3470 (-1789)
PAWNEE 3556 (-1875)
FORT SCOTT 3586 (-1905)
CHEROKEE 3612 (-1931)
MISSISSIPPIAN 3650 (-1969)
KINDERHOOK 3676 (-1995)
VIOLA 3690 (-2009)
SIMPSON SAND 3698 (-2017)
SIMPSON SHALE 3720 (-2039)
ARBUCKLE 3770 (-2089)
RTD 3500 (-1819)
LTD 3498 (-1817)

START 1' DRILL TIME
START 10' WET/DRY SAMPLES

DST #1 3270-3300 (Arbuckle) 30-45-45-90 IF: BB in 2 min. FF: BB in 5 min. ISIP: 1000 FSIP: 1000 IFP: 31-31 FFP: 41-41 Recovered 90' GCM

VIS 57
WL 8.2
PH 9.5
Cl 1,000
Calc 1.6K

VIS 48
WL 8.0
PH 9.5
Calc 1.6K

VIS 53
WL 8.0
PH 9.5
Calc 1.6K

VIS 53
WL 8.0
PH 9.5
Calc 1.6K

CONTRACTOR: Duke Drilling Co. Inc. Rig #3
LEASE: Bunkers #1 WELL NO. #1
ELEVATION: Gnd. 1681 KB: 5500
LOCATION: NW NE NE SW SEC. 12 TWP. 21 S RGE. 17 W
COUNTY: Rice STATE: Kansas