

# DRILLERS LOG

JOHNSTON #1

8/30/00 TO 9/4/00

SPUD 7:00AM, 8/30/00 W/ 8 7/8" BIT,  
SET 1 JT 6 5/8" 14" NEW CASING  
21.25' (21' 3") LONG @ 20' W/  
5 SACKS CEMENT  
8 7/8" Well bore TO 20'  
5 5/8" Well bore TO 240' RTD

LACONDA SHALE  
(SQUIRREL SAND SECTION)

BEVER COAL & SHALE

VERDIGRIS LIME

CROWBURG SHALE

FLEMING COAL

UPPER

ROBINSON BRANK COAL

MINERAL COAL

MIDDLE

SEAMOND COAL

LOWER

CHELSEA SAND

TEBO SHALE

RTD 240'  
9/4/00

WILLIAM T. WAX # 3473 JOHNSTON # ORIGINAL

125' N & 35' W OF SW NE SE SW 13-T31S-R21E  
(950' FSL & 2110' FWL 13-31S-21E ~~CRANFORD~~ CO., KS)

GLEEL

API # 15-037-21493-0000

+865'

3' CLAY  
4' BLACK SHALE W/ 6" COAL STREAKS @ 3 1/2', 5', 6'  
(MULKY SHALE & COAL)

50

8 7/2' GRAY SHALE  
(6" COAL STREAK @ 58')

94 1/2' +770 1/2'  
100 9/2' +765 1/2'

5' BLACK SHALE W/ 1 1/2' COAL @ 98'  
(6" PYRITE STREAKS @ 95' & 97 1/2')

9 1/2' GRAY SHALE (3" LIME @ 105')

109' +756'

7' SHALEY GRAY LIMESTONE

116' +749'

4' BLACK SHALE (6" PYRITE STREAKS @ 117' & 119 1/2')

120' +745'

123' +742'

130' +735'

132' +735'

134' +725 1/2'

140' +719'

143' +719'

145' +719'

146' +719'

150'

152 1/2' +712 1/2'

154' +711'

156' +709'

159 1/2' +705 1/2'

3' GRAY SHALE  
1 1/2' COAL  
5 1/2' GRAY SHALE (LIME STREAKS @ 126' & 130')

2' SHALEY SAND (TITE - NOSHO)

2' GRAY SHALE

5 1/2' SHALEY SAND (TITE - NOSHO)

6" COAL

3' GRAY SHALE

2' SHALEY SAND (TITE - NOSHO)

1' GRAY SHALE

6 1/2' BLACK SHALE

1 1/2' COAL

2' LIGHT GRAY SHALE

3 1/2' SHALEY SAND (TITE - NOSHO)

GRAY

10' SAND (Ø - SOFT - NOSHO OIL) GAS

7' BLACK SHALE (PYRITE STREAKS @ 171 1/2', 175 1/2', 176')

1' COAL

2 1/2' GRAY SHALE

1' SHALEY SAND (TITE - NOSHO)

2 1/2' GRAY SHALE

13 1/2' GOOD CLEAN SAND W/ GOOD Ø - NOSHO OIL

(GAS INCREASED)

4' GRAY SHALE

11' LIGHT BROWN SAND - GOOD Ø, CLEAN, GASSY

(NOSHO OIL) (GAS INCREASED)

9' BLACK SHALE

(LIME STREAKS @ 214' & 217')

3' GRAY/GREEN SHALE

8' GRAY SAND (GOOD Ø - NOSHO OIL)

(W/ 6" GRAY SHALE STREAK @ 228')

8' DARK GRAY SHALE

250