

15-147-00027-00-00

CROW DRILLING COMPANY

422 COMMERCIAL NATIONAL BANK BUILDING

SHREVEPORT, LA.

Driller's log on the Shaw #1 well located in
Section 22-3-12, Phillips County, Kansas.

0' to 179' Shale
 179' to 197' Shale and shell
 197' to 241' Shale and shell
 241' to 259' Anhydrite
 259' to 370' Shale
 370' to 770' Shale
 770' to 790' Sand
 790' to 980' Sand shale
 980' to 980' Hard sand
 980' to 974' Hard sand
 974' to 1009' Sand
 1009' to 1078' Shale and shell
 1078' to 1380' Shale
 1380' to 1564' Shale
 1564' to 1583' Lime shale
 1583' to 1650' Anhydrite & green shale
 1650' to 1783' Shale and shell
 1783' to 1916' Shale
 1916' to 2000' Shale
 2000' to 2170' Shale and shell
 2170' to 2258' Shale and lime
 2258' to 2361' Shale and shell
 2361' to 2423' Shale
 2423' to 2464' Lime and shale
 2464' to 2496' Shale
 2496' to 2531' Lime
 2531' to 2580' Lime and shale
 2580' to 2658' Lime and shale
 2658' to 2735' Lime
 2735' to 2745' Lime
 2745' to 2778' Lime and shale
 2778' to 2814' Shale and lime
 2814' to 2845' Shale
 2845' to 2883' Lime
 2883' to 2912' Shale and lime
 2912' to 2953' Shale and lime
 2953' to 3002' Shale and sand streaks
 3002' to 3027' Lime
 3027' to 3069' Lime
 3069' to 3084' Lime and shale
 3084' to 3099' Lime
 3099' to 3119' Lime soft
 3119' to 3157' Lime
 3157' to 3189' Lime
 3189' to 3224' Lime
 3224' to 3282' Lime

3282' to 3289' Lime
 3289' to 3315' Lime
 3315' to 3345' Lime
 3345' to 3383' Lime
 3383' to 3401' Lime hard
 3401' to 3423' Lime
 3423' to 3468' Lime
 3468' to 3485' Lime
 3485' to 3499' Sandy lime
 3499' to 3510' Lime and shale
 3510' to 3551' Shale & lime streaks
 3551' to 3580' Shale and lime
 3580' to 3617' Shale and lime
 3617' to 3647' Cherty shale
 3647' to 3675' Lime and shale
 3675' to 3707' Cherty lime
 3707' to 3726' Cherty shale
 3726' to 3756' Shale and lime
 Total Depth = 3756'

DRILLING
 FILE # 23 3.9.124
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