

DRILLING TIME LOG

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| Dorset Company and D & D Drilling Company, Inc. Lowry No. 1 SE SW SE Section 19-8S-19W Rooks County, Kansas | Elevation: Commenced: Completed: | 2005 R.B. 2001 D.F. 1999 G.L. 9-12-63 9-20-63 |
| Surface Pipe: 8 5/8" at 210' w/ 165 sacks. | | |

| Depth | Time in minutes | Remarks |
|-----------|---------------------|--------------------|
| 2700-2710 | 5-5-5-5-6-7-6-7-8-7 | YTL at 2593 |
| 2710-2720 | 8-9-6-5-9-7-5-4-5-4 | |
| 2720-2730 | 5-4-3-3-3-4-4-4-3-4 | |
| 2730-2740 | 4-2-3-5-6-5-5-4-3-5 | |
| 2740-2750 | 7-5-3-5-8-4-5-4-5-5 | |
| 2750-2760 | 4-3-3-4-4-4-4-4-3-4 | |
| 2760-2770 | 3-4-3-3-3-3-4-3-2-3 | |
| 2770-2780 | 3-3-4-4-2-3-3-2-2-3 | |
| 2780-2790 | 2-2-2-2-2-2-2-2-1-1 | |
| 2790-2800 | 1-3-2-3-2-3-4-4-3-4 | |
| 2800-2810 | 4-4-2-3-2-4-3-6-4-6 | |
| 2810-2820 | 6-5-3-4-4-4-4-3-3-7 | |
| 2820-2830 | 7-5-3-2-3-4-4-4-5-6 | |
| 2830-2840 | 5-3-2-2-3-3-4-4-8-4 | |
| 2840-2850 | 4-4-5-3-2-2-2-2-1-2 | |
| 2850-2860 | 2-3-4-2-2-2-2-6-5-6 | |
| 2860-2870 | 5-5-6-5-6-4-5-5-5-4 | |
| 2870-2880 | 5-4-5-4-5-6-8-4-1-1 | Trip & Strap D. P. |
| 2880-2890 | 1-1-1-1-3-2-3-4-2-4 | |
| 2890-2900 | 3-4-3-3-3-4-3-3-2-3 | |
| 2900-2910 | 2-3-1-1-2-1-1-2-1-2 | |
| 2910-2920 | 1-3-1-5-3-3-3-2-4-4 | |
| 2920-2930 | 2-2-3-4-4-1-2-3-2-5 | |
| 2930-2940 | 3-2-2-1-1-1-1-1-2-2 | |
| 2940-2950 | 2-2-2-1-2-2-3-2-2-3 | |
| 2950-2960 | 3-2-2-2-3-5-2-3-3-3 | |
| 2960-2970 | 2-3-2-5-2-3-2-2-3-3 | |
| 2970-2980 | 2-4-5-5-4-2-4-4-3-3 | |
| 2980-2990 | 4-3-4-4-6-3-3-3-2-3 | |
| 2990-3000 | 3-3-2-2-3-3-4-3-2-2 | |
| 3000-3010 | 1-1-1-1-1-x-x-1-2-2 | Kelly Corr. |
| 3010-3020 | 2-3-4-5-3-4-5-5-3-3 | |
| 3020-3030 | 4-3-3-4-4-4-4-4-5-4 | |
| 3030-3040 | 5-6-7-8-6-7-6-6-4-4 | S.R. |
| 3040-3050 | 1-2-4-4-5-4-6-6-6-3 | |
| 3050-3060 | 5-4-5-5-5-5-3-3-5-5 | |
| 3060-3070 | 4-5-4-4-6-5-6-4-5-5 | |
| 3070-3080 | 5-3-5-4-3-3-3-4-3-4 | |
| 3080-3090 | 3-4-4-4-3-5-6-6-5-9 | |
| 3090-3100 | 7-8-5-2-3-7-5-5-5-4 | |

| Depth | Time in minutes | Remarks |
|-----------|-------------------------------|----------------------------|
| 3100-3110 | 6-6-6-7-6-7-8-5-5-6 | |
| 3110-3120 | 5-4-4-10-10-6-7-6-5-5 | |
| 3120-3130 | 5-10-10-5-4-3-4-4-5-3 | Trip - Slope Test |
| 3130-3140 | 3-4-7-4-5-7-9-8-9-8 | |
| 3140-3150 | 7-6-5-8-9-5-3-3-5-3 | |
| 3150-3160 | 5-8-8-4-3-4-4-5-6-6 | |
| 3160-3170 | 5-7-7-6-8-9-7-9-10-6 | |
| 3170-3180 | 9-10-9-8-8-9-9-4-3-7 | |
| 3180-3190 | 13-7-9-10-7-4-2-3-6-6 | |
| 3190-3200 | 4-5-4-2-2-4-2-3-3-5 | |
| 3200-3210 | 2-4-9-9-6-9-11-12-8-5 | |
| 3210-3220 | 4-3-4-5-4-5-9-9-7-8 | |
| 3220-3230 | 9-11-11-11-10-10-13-12-12-13 | |
| 3230-3240 | 12-11-12-12-12-11-12-13-11-13 | S. R. |
| 3240-3250 | 9-10-7-10-5-6-5-5-4-5 | S. R. |
| 3250-3260 | 5-10-8-6-7-7-9-9-10-12 | S. R. |
| 3260-3270 | 11-11-12-10-6-5-5-4-6-5 | |
| 3270-3280 | 7-8-6-4-4-9-6-4-3-5 | S. R. |
| 3280-3290 | 7-8-6-6-6-6-6-12-6-6-7 | |
| 3290-3300 | 7-6-7-5-9-8-5-5-4-4 | |
| 3300-3310 | 5-4-4-7-5-6-8-6-5-5 | |
| 3310-3320 | 5-6-5-4-4-7-8-10-13-13 | S. R. |
| 3320-3330 | 13-6-5-5-6-8-5-10-7-7 | Trip & Slope Test |
| 3330-3340 | 8-10-5-6-6-3-5-8-4-3 | |
| 3340-3350 | 2-4-4-3-4-5-7-8-6-5 | |
| 3350-3360 | 4-6-6-10-9-9-11-11-10-9 | |
| 3360-3370 | 7-8-5-5-5-5-5-4-11-9 | |
| 3370-3380 | 6-10-10-10-8-9-10-9-6 | |
| 3380-3390 | 5-3-7-7-7-8-10-10-5-4 | |
| 3390-3400 | 4-5-6-9-9-9-11-7-5-5 | |
| 3400-3410 | 5-5-7-6-5-5-6-9-7-11 | S. R. |
| 3410-3420 | 10-9-7-9-13-12-10-12-12-12 | S. R. |
| 3420-3430 | 12-7-4-5-9-9-5-6-10-12 | |
| 3430-3440 | 11-11-9-7-5-6-5-3-4-4 | S. R. |
| 3440-3450 | 4-4-4-3-5-4-4-6-6-9 | |
| 3450-3460 | 10-3-2-3-2-3-3-4-6-9 | Cir. for spls. & DST No. 1 |
| 3460-3470 | 7-9-10-9-11-5-10-8-9-8 | Circ. 30-45 |
| 3470-3480 | 9-7-6-5-5-5-5-5-4 | R. R. Circ. 30-45 |
| 3480-3490 | 5-8-5-6-5-7-8-9-7-7 | Circ. 30-45 |
| 3490-3500 | 5-5-10-8-8-7-7-11-8-10 | Circ. 30-45 |
| 3500-3510 | 7-12-8-9-9-5-6-8-8-5 | S. R. R. R. |
| 3510-3520 | 7-9-8-8-7-7-9-7-8-8 | S. R. S. R. |
| 3520-3430 | 9 | Total Depth 3521' |