

LEASE NAME KNABE D OPERATOR KANSAS Resource START DATE: AUG 25, 2001  
 WELL # RR 3 LOCATION: NE 14-14-22 API # 091-235338-00-00  
 SURFACE PIPE: 7" Ft 20 Cement(#bags) 5 Circulated  
 PRODUCTION: PIPE: 2 1/2" SIZE: 8 9/16' #FT

| Thickness | Formation        | Comment | Depth | Thickness | Formation | Comment   | Depth |
|-----------|------------------|---------|-------|-----------|-----------|-----------|-------|
| 15        | TOP SOIL<br>CLAY |         | 15    | 2         | SHALE     | Circulate | 700   |
| 19        | LIME             |         | 34    | 1         | SHALE     | "         | 701   |
| 8         | SHALE            |         | 42    | 12        |           | " "       | 713   |
| 16        | LIME             |         | 58    | 5         |           | " "       | 718   |
| 4         | SHALE            |         | 62    | 5         |           | " "       | 723   |
| 25        | LIME             |         | 87    | 3.5       |           | " "       | 726   |
| 4         | SHALE            |         | 91    | 120       | SHALE     |           | 846   |
| 5         | LIME             |         | 96    |           |           | Circulate |       |
| 4         | SHALE            |         | 100   |           |           | "         |       |
| 14        | LIME             |         | 114   |           |           | "         |       |
| 2         | SHALE            |         | 116   |           |           | "         | 861   |
| 78        | LIME             |         | 194   | 48        | SHALE     |           | 909   |
| 28        | SHALE            |         | 222   |           |           |           | TD    |
| 4         | LIME             |         | 226   |           |           |           |       |
| 28        | SHALE            |         | 254   |           |           |           |       |
| 20        | LIME             |         | 274   |           |           |           |       |
| 43        | SHALE            |         | 317   |           |           |           |       |
| 17        | LIME             |         | 334   |           |           |           |       |
| 6         | SHALE            |         | 340   |           |           |           |       |
| 4         | LIME             |         | 344   |           |           |           |       |
| 8         | SHALE            |         | 352   |           |           |           |       |
| 20        | LIME             |         | 372   |           |           |           |       |
| 10        | SHALE            |         | 382   |           |           |           |       |
| 4         | LIME             |         | 386   |           |           |           |       |
| 3         | SHALE            |         | 389   |           |           |           |       |
| 4         | LIME             |         | 393   |           |           |           |       |
| 169       | SHALE            |         | 561   |           |           |           |       |
| 11        | LIME             |         | 572   |           |           |           |       |
| 8         | SHALE            |         | 580   |           |           |           |       |
| 9         | LIME             |         | 589   |           |           |           |       |
| 14        | SHALE            |         | 603   |           |           |           |       |
| 1         | LIME             |         | 604   |           |           |           |       |
| 14        | SHALE            |         | 618   |           |           |           |       |
| 4         | SHALE            | RED BED | 622   |           |           |           |       |
| 77        | SHALE            |         | 699   |           |           |           |       |