

**Yates Petroleum Corporation**  
**Thunderhead TD State Com #4**  
**API 30-005-63241**  
**Section 32 T8S R26E**  
**Chaves County, NM**

**26. Perforation Record (interval, size and number)**

|               |            |          |            |                   |
|---------------|------------|----------|------------|-------------------|
| Ordovician    | 6630-6634' | 16 holes | .41" holes |                   |
|               | 6636-6642' | 24 holes | .41" holes |                   |
|               | 6644-6646' | 8 holes  | .41" holes |                   |
| Mississippian | 6446-6454' | 18 holes | .41" holes |                   |
|               | 6537-6556' | 26 holes | .41" holes |                   |
| Cisco         | 5768-5780' | 26 holes | .41" holes | (Cement squeezed) |
|               | 5712-5722' | 22 holes | .42" holes |                   |
|               | 5742-5766' | 50 holes | .42" holes |                   |
|               | 5782-5796' | 30 holes | .42" holes |                   |
|               | 5808-5816' | 18 holes | .41" holes |                   |
|               | 5826-5838' | 26 holes | .42" holes |                   |
| Wolfcamp      | 5458-5462' | 10 holes | .41" holes | (Cement squeezed) |
|               | 5470-5490' | 42 holes | .41" holes | (Cement squeezed) |
|               | 5430-5444' | 30 holes | .42" holes |                   |
|               | 5452-5468' | 34 holes | .42" holes |                   |
|               | 5500-5508' | 18 holes | .41" holes |                   |
|               | 5532-5540' | 18 holes | .42" holes |                   |

**27. Acid, shot, fracture, cement, squeeze, etc.**

| <b>Depth Interval</b> | <b>Amount and kind material used</b> |                                                                            |
|-----------------------|--------------------------------------|----------------------------------------------------------------------------|
| Ordovician            | 6630-6646'                           | Spot 50 gals 20% IC HCL<br>Acidize with 500 gals 20% IC HCL + ball sealers |
| Mississippian         | 6446-6556'                           | Acidize with 1500 gals 20% IC HCL + ball sealers                           |
| Cisco                 | 5768-5780'                           | Spot 50 gals IC HCL<br>Acidize with 1200 gals 20% IC HCL + ball sealers    |
|                       | 5808-5816'                           | Spot 50 gals 20% IC HCL                                                    |
|                       | 5768-5816'                           | Acidize with 800 gals 20% + ball sealers                                   |
|                       | 5768-5780'                           | Cement squeeze with 100 sxs Class H + .4% fluid loss. Squeeze to 2500 psi. |
|                       | 5712-5838'                           | Spot 3 bbls 15% IC HCL<br>Acidize with 3500 gals 15% IC HCL + ball sealers |
| Wolfcamp              | 5458-5508'                           | Spot 3 bbls 20% IC HCL<br>Acidize with 3000 gals 20% IC HCL                |
|                       | 5458-5490'                           | Cement squeeze with 100 sxs Class H + fluid loss. Squeeze to 2100 psi.     |
|                       | 5430-5540'                           | Spot 100 gals 15% IC HCL<br>Acidize with 2500 gals 15% IC HCL              |