

APPLICATION FOR AUTHORIZATION TO INJECT

PHILLIPS PETROLEUM COMPANY Luke Federal Well No. 1

III. WELL DATA (existing)

A. Name, Location, and Wellbore Data

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| 1. Name & Location: | Luke Federal No. 1
1980' FNL & 660' FWL
Sec. 31, T-21-S, R-32-E
Lea County, New Mexico |
| 2. Casing: | Surface 13-3/8", 48 lb/ft, H-40 set at 829'. (17-1/2" hole.) Cemented with 750 sx cement. Cement circulated. |
| | Intermediate 8-5/8", 24 lb/ft, J-55 set at 4302'. (12-1/4" hole.) Cmt'd with 3280 sx cement. Cement circulated. |
| | Production 5-1/2", 17 lb/ft, J-55 set at 8103'. (7-5/8" hole.) Cmt'd with 1595 sx cement. Cement circulated. |
| | Fish in hole 6-1/4" drill collars and 7-5/8" drill bit. Top of fish @ 8124' |

(proposed)

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| 3. Injection Tubing: | 2-7/8", 6.5 lb/ft, J-55 (internally plastic coated) set at ±4550'. |
| 4. Injection Packer: | Baker Loc-Set Retrievable packer with Baker Model "FL" On/Off tool set at ±4550'. |

B. Reservoir Data

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| 1. Injection Formation: | Bell Canyon & Cherry Canyon |
| Field Name: | Lost Tank (Delaware) |
| 2. Proposed Injection Intervals: | 4618'-4628' 10'
4648'-4675' 27' |