

Well: **Newberry Federal #1E**
 Location: **1,690' FNL & 990' FWL**
Sec 17 T31N R12W NMPM
San Juan County, New Mexico
 API: **30-045-34532**

Operator: **Great Western Drilling Company**
 Spud date: **3/5/2008**
 Elevations: **KB 5,950.50**
KB-GL 16.5'
GL 5,934'

| TOPS | NOTES | HOLE SIZE | CASING & CEMENT |
|---|--------------|-----------|--|
| | | 12 1/4" | |
| | 230' | | 9 5/8" 38# J-55 set at 230' cmtd to GL w/ 135 sx |
| Ojo Alamo at 500' Kirtland at 590' | | 8 3/4" | |
| Fruitland at 1,845' | | | 2 3/8" 4.7# J-55 tubing |
| Pictured Cliffs at 2,225' | | | 7" DV tool at 2,433' circulated 30 bbl from 1st stage then cmtd 2nd stge w/380 sx and circulated 25 bbl from the 2nd stage |
| Cliff House at 3,890' | | | TOC behind 4 1/2" at 4,140' by CBL |
| Menafee at 4,105' | 4,296' | | 7" 20 & 23# J-55 set at 4,296' cmtd 1st stage w/335 sx |
| Point Lookout at 4,675' | | | |
| Greenhorn at 6,715' Graneros at 6,770' | | | |
| Dakota at 6,833' | SN at 6,892' | | Dakota perms 6,833 - 6,988' 5/8/08 actz w/ 1,000 gal 7.5% HCl and frac w/27,468 gal X-link gel w/80,000# 20/40 Brady sand and 25,000# 20/40 SLC |
| | TD at 7,003' | | 4 1/2" 10.5 & 11.6# J-55 set at 7,002' cmtd w/285 sx |
| | | | pbttd 6,990' |