

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" 36# J-55 set at 230'<br>cmtd to GL w/ 135 sx  |
| Ojo Alamo at 500'<br>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'<br>cmtd 1st stage w/335 sx  |
| Point Lookout at 4,675'                   |              |           |  |
| Greenhorn at 6,715'<br>Graneros at 6,770' |              |           |  |
| Dakota at 6,833'                          | SN at 6,892' |           | Dakota perms 6,833 - 6,986' 5/8/08<br>accz w/ 1,000 gal 7.5% HCl and frac w/27,468 gal X-link gel w/90,000# 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'<br>cmtd w/285 sx  |
|   |              |           | pbttd 6,990'   |

OIL CONS. DIV DIST. 3  
 OCT 18 2017

GREAT WESTERN DRILLING  
OPERATIONS PLAN  
Newberry Federal #1E

I. Location: 1690' FNL & 990' FWL Date: December 11, 2007  
Sec 17, T31N, R12W  
San Juan County, NM

Field: Basin Dakota Elev: GL 5934'  
Surface: BLM  
Minerals: NM 021124

II. Geology: Surface formation \_ Nacimiento

| A. Formation Tops | Depths |
|-------------------|--------|
| Ojo Alamo         | 500'   |
| Kirtland          | 590'   |
| Fruitland         | 1845'  |
| Pictured Cliffs   | 2225'  |
| Cliff House       | 3890'  |
| Menefee           | 4105'  |
| Point Lookout     | 4675'  |
| Mancos            | 5015'  |
| Gallup            | 5995'  |
| Greenhorn         | 6715'  |
| Graneros          | 6780'  |
| Dakota            | 6840'  |
| Morrison          | 7080'  |
| Total Depth       | 7155'  |

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 1845', 2225', 3890', 4675', and 6840'.

B. Logging Program: Induction/GR and density logs at TD.

C. No over pressured zones are expected in this well. No H<sub>2</sub>S zones will be penetrated in this well. Max. BHP = 2000 psig.

III. Drilling

A. Contractor:

B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The intermediate hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.9 ppg.

The production hole will be drilled with air or air/mist.