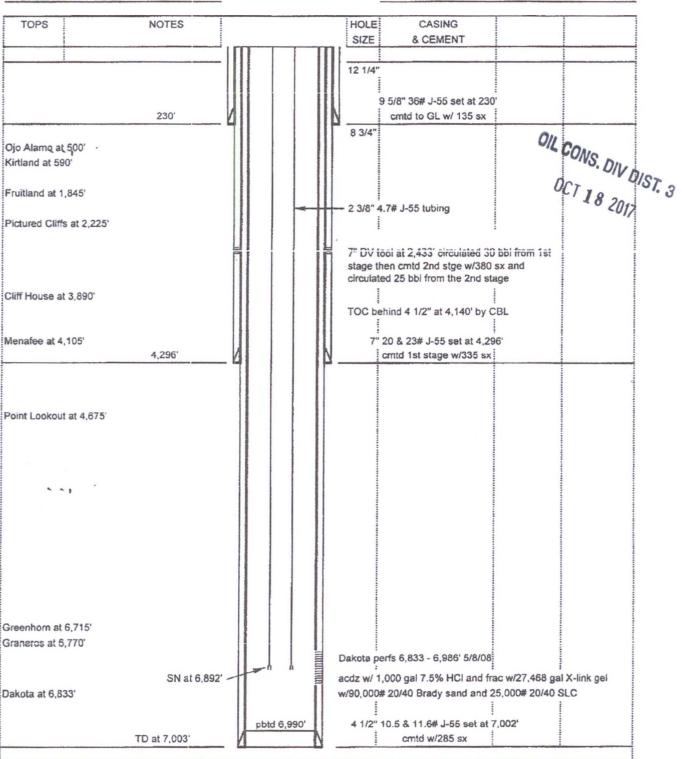
Well:	Newberry Federal #1E
Location:	1,690' FNL & 990' FWL
	Sec 17 T31N R12W NMPM
	San Juan County, New Mexico
API:	30-045-34532

Operator: Gr	eat	Western Drilling Company
Spud date:		3/5/2008
Elevations:	KB	5,950.50
KB-	GL	16.5'
	GL	5.934'



prepared by L. M. Cure 19 Nov 14

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## GREAT WESTERN DRILLING OPERATIONS PLAN Newberry Federal #1E

I. Location: 1690' FNL & 990' FWL

Sec 17, T31N, R12W

San Juan County, NM

Field: Basin Dakota

Surface: BLM

× 11 "

Minerals: NM 021124

Date: December 11, 2007

Elev: GL 5934'

II. Geology: Surface formation \_ Nacimiento

04 - 73	F 0 0 1
Ojo Alamo	500'
Kirtland	590'
Fruitland	1845'
Pictured Cliffs	2225'
Cliff House	3890'
Menefee	1105'
Point Lookout	1675'
Mancos	015'
Gallup	995'
Greenhorn	715'
Graneros	780'
Dakota	840'
Morrison	080'
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  $H_2S$  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.