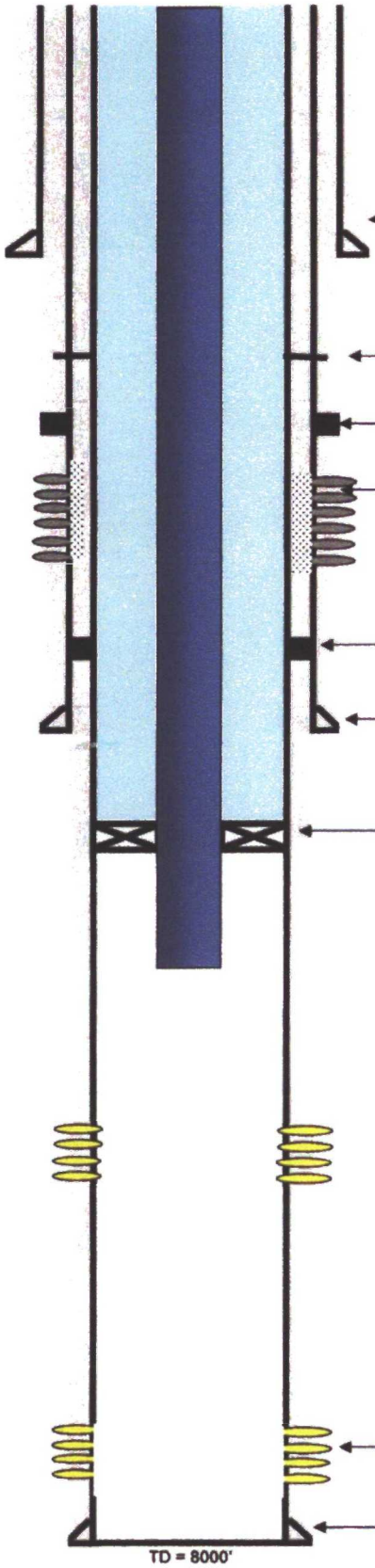
# Cardon Com SWD #1

## San Juan, New Mexico

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|---|---|
| API: | 30-045-24392 |
| Legals: | Sec 27 - T 32N - R 12W |
| Field: | Basin Dakota |
| KB | 12' |
| KB Elev | 5909' |
| GR Elev | 5897' |

Geologic Tops:

| | |
|---|---|
| Fruitland | 1440' |
| PC | 1740' |
| Lewis | 1790' |
| CH | 3435' |
| Menefee | 3611' |
| PLO | 4138' |
| Dakota | 6532' |

Surface Casing:
9-5/8", 36#, K-55, set @ 294' in 12-1/4" hole
Cmt'd. with 250 sks, circulated to surface

*** Tested backside to 350# with state witness (11/20/09)
*** Backside loaded with 160 bbls packer fluid from Baker (11/19

4 sq holes at 2350' cement w/ 25 sxs micromatrix & 25 sxs Cl "G

DV Tool @ 3621' (7")
Cmt'd with 550 sks lead & 150 sks tail, circ to surface

**Note holes are behind liner casing
Old Mesaverde Perforation Details: All 1 jspf

| | | |
|---|---|---|
| 4216' - 4234' | 4287' - 4289' | 4410' - 4412' |
| 4246' - 4248' | 4301' - 4310' | 4420' - 4422' |
| 4264' - 4278' | 4347' - 4349' | 4492' - 4496' |
| | 4383' - 4396' | |

DV Tool @ 4798' (4.5")
Pumped 325 sks lead & 50 sks tail, 27 bbls returns to surface

Production Casing:
7", 20 #, K-55, Set @ 5099' in 8-3/4" Hole
Cmt'd with 100 sks lead & 150 sks tail

Tubing Details: (11/19/09)
2-3/8" XO to 2-7/8" ULT-FJ (0.7')
1 Jt 2-7/8", 6.4#, L-80, ULT-FJ (28.63')
Pup Jt 2-7/8", 6.4#, L-80, ULT-FJ (7.73')
236 Jts 2-7/8", 6.4#, L-80, ULT-FJ (7211')
2-7/8" ULT-FJ XO to 2-3/8" EUE (0.9')
On-Off Tool with 1.87" X Nipple (1.3')
Wireline Set Baker Hornet Packer (7.15') set @ 7263' ELM
2-3/8", 4.7#, L-80 Pup (8.15')
Model R Nipple with Bottom No-Go (1.67") (0.8')
2-3/8", 4.7#, L-80 Pup (4.15')
Wireline Re-Entry Guide (0.45')
EOT = 7271' (Pipe measurement)

Bluffs Perforations (11/7/09)
4 SPF, 90 degree phasing
7322-32, 7340-60, 7376-86, 7410-30, 7470-73
7476-90, 7530-40, 7562-70, 7578-82, 7588-92
7602-08. 109' and 436 holes.

Acidized Perfs (11/8/09)
4000 gals 15% HCL and 510 Bio Balls

Frac'd Bluffs (11/10/09)
103700# of 20/40 Brady Sand
75998 gals of water
Avg rate of 40 bpm, Max psi = 2861#
FG 0.64 psi/ft; ISIP 1570, 5min 1287, 10min 1177, 15min 1104

Entrada Perforations: 90 deg phasing
7780' - 7910': .40" Holes: 4 spf: 520 holes

Liner Casing:
4-1/2", 11.6#, N-80 set @ 7998' in 6-1/4" Hole
1st Stage: cmt'd with 425 sks. Circulated 25 bbls to DV tool