

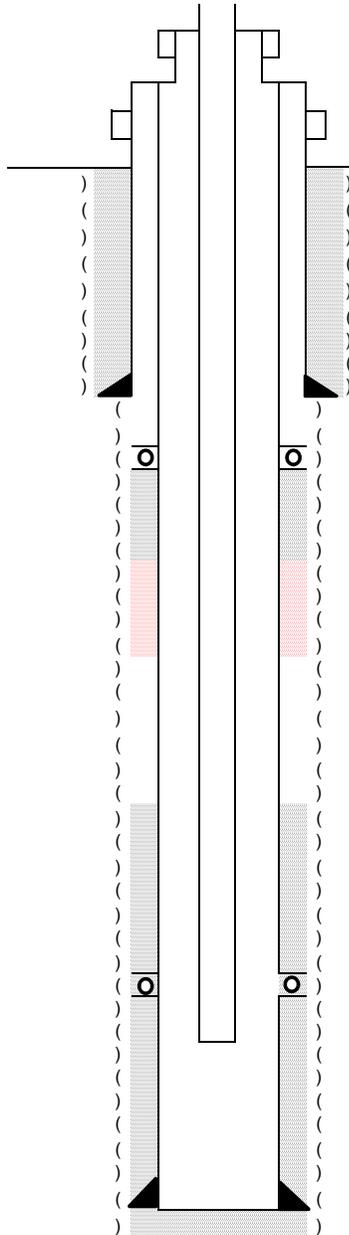


WELLBORE DIAGRAM

CURRENT WBD

1650' FNL 1650' FWL

Operator: Great Western Oil & Gas Company
 Well Name: Grand #1
 Lease Number:
 Location: SENW Sec. 15 1S 65W
 Field: Wattenberg
 County, State: Adams Co., CO
 API Number: 05-001-08118
 Diagram Date: 10/20/2014
 Lat/Long: 39.967732/-104.653679



KB 5213'

GL 5204'

Spud Date: 4/4/1982
 Completion Date: 7/14/1982

Producing Formation: J Sand

Surface Casing

8-5/8" 24#, J-55 Surf CSG set @ 238' (12-1/4" Hole)
 Cmt'd w/ 228 sx to surf.

Sleeve @ 1400' - 1000 gal Angel - does not show on CBL

Cement Coverage from 1,540' - 2,030' (CBL)
 **suspected unreported casing hole fix

**Holes in the casing from 1,420' - 1,606' (verified with packer)
 Propose 30 sx balanced plug squeeze from 1,320' - 1,620'
 Drill out and pressure test to 500 psi**

TOC = 7272' (CBL)

J Sand Perfs: 8011' - 8073'
 16 shots sized 0.4"
J Sand Treatment:
 20,000 gal pre pad, 30,000 gal pad. 21,000# 100 mesh and
 302,000# 20/40 sand in 156,000 gal fluid. 43 tons CO₂,
 and 1500 gal 7.5% acid.

TVD = 8150 PBTVD = 8105
 MD = 8150 PBMD = 8105

Production Casing

4-1/2" 11.6#, N-80 CSG set @ 8144' (7-7/8" Hole)
 Cm'd w/ 250 sx