

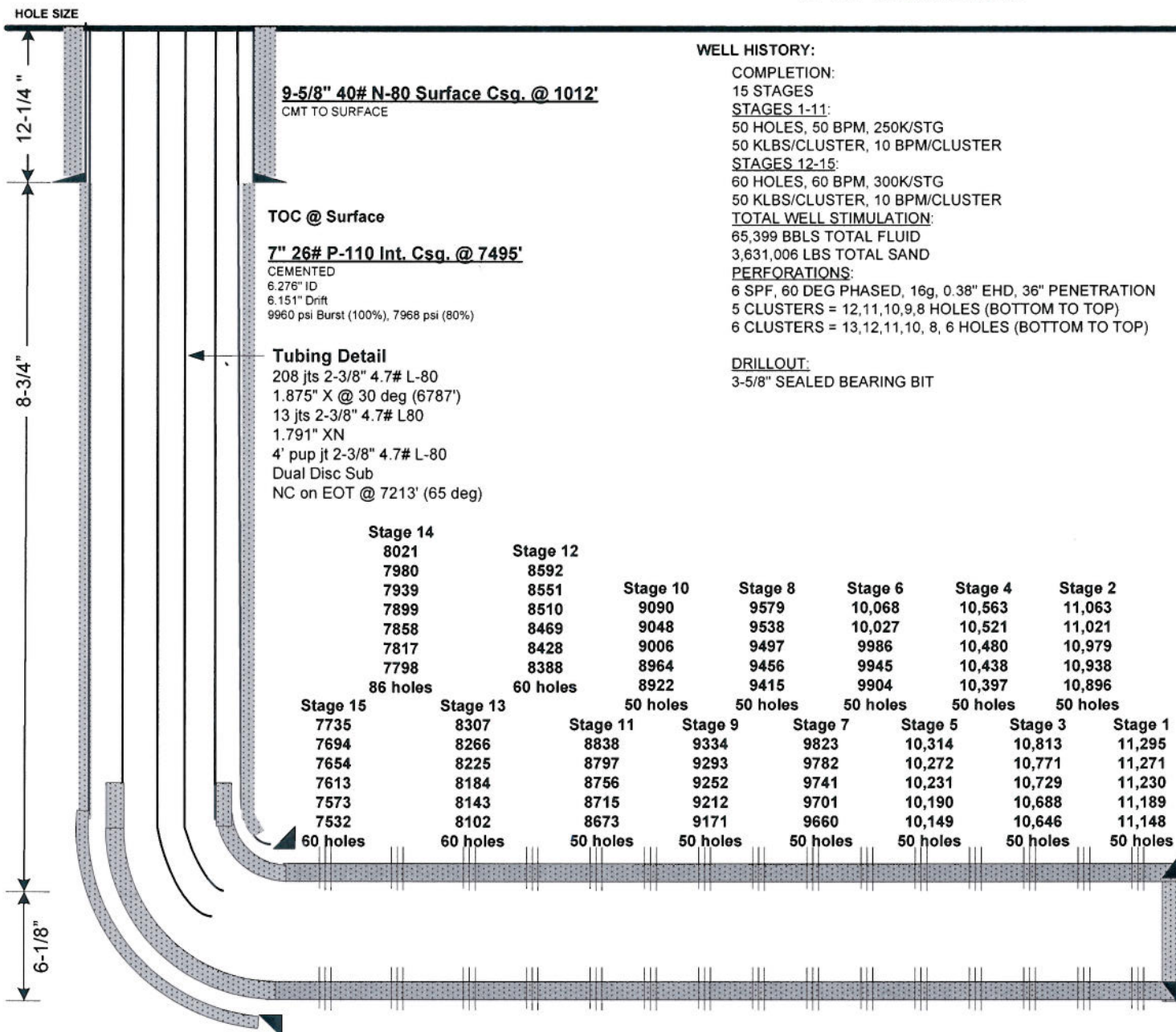
# Current Wellbore Schematic

EnCana Oil & Gas (USA) Inc.



WELL : Grattan 4B-30H – Cemented Perf/Plug  
LOCATION : Lat: 40.104020 Long: -104.586010  
COUNTY : WELD STATE: CO  
FIELD : Wattenberg - NIOBRARA  
ELEVATION : 4933' (GL) 4946' (KB) Δ 13'

SPUD DATE: 2/9/12  
COMPL. DATE: April 16, 2012  
API #: 05123343620000



## WELL HISTORY:

### COMPLETION:

15 STAGES

### STAGES 1-11:

50 HOLES, 50 BPM, 250K/STG

50 KLBS/CLUSTER, 10 BPM/CLUSTER

### STAGES 12-15:

60 HOLES, 60 BPM, 300K/STG

50 KLBS/CLUSTER, 10 BPM/CLUSTER

### TOTAL WELL STIMULATION:

65,399 BBLS TOTAL FLUID

3,631,006 LBS TOTAL SAND

### PERFORATIONS:

6 SPF, 60 DEG PHASED, 16g, 0.38" EHD, 36" PENETRATION

5 CLUSTERS = 12,11,10,9,8 HOLES (BOTTOM TO TOP)

6 CLUSTERS = 13,12,11,10, 8, 6 HOLES (BOTTOM TO TOP)

### DRILLOUT:

3-5/8" SEALED BEARING BIT

## Directional Data

KOP: 6550'

30°: 6800'

60°: 7158'

80°: 7400'

90°: 7850'

Max DLS: 12°/100' @ 6808' MD

Lateral Length: 3913' (Int. Shoe-TD)

## 4-1/2" 13.5# P-110 DQX Prod. Csg @ 11379'

CEMENTED

3.920" ID

3.795" Drift

12,410 psi Burst (100%), 9928 psi (80%)

TD: 11,408'

PBTD: 11,302'

TVD: ~7020'

BHT: 240 F

PREPARED BY: JOEL DRAPER

LAST UPDATED: 05/07/12