

WORKOVER PROCEDURE

WELL NAME: GUNTHER 18-02 **DATE:** 11/8/2016

LOCATION: Qtr/Qtr: SENE Section: 18 Township: 5N Range: 64W

Footages: 1986 FNL & 660 FEL

COUNTY: WELD **STATE:** CO **API #:** 05-123-12263

ENGINEER: Garrett Reddin, (720) 822-9993 7 Day Notice Sent: _____
(Please notify Engineer of any major Do not start operations until: _____
changes prior to work) Notice Expires: _____

OBJECTIVE: P&A

WELL DATA: Surface Csg: 8.625" 24# @ 309' KB KB Elevation: 4630'
Surface Cmt: 310 sx GL Elevation: 4620'
Long St Csg: 4.5" 11.6# N-80 @ 6938' KB TD: 6970' KB
Long St Cmt: 697 sx PBTD: 6925' KB
Long St Date: 2/19/1985

Plug Back (Sand or CIBP): FILL
Perforation Interval (1): Niobrara Perforations: 6579-6770' KB
Perforation Interval (2): Codell Perforations: 6862-6874' KB
Perforation Interval (3): _____
Tubing: 2.375" @ 6838' KB Rods: _____
Pump: _____
Misc.: _____

PRODUCTION STATUS: PR
COMMENTS: Believe existing cement to surface (confirming with CBL) - no cut csg

PROCEDURE:

- 1) MIRU Workover rig, pump & tank.
- 2) POOH 2.375" tbg and lay down.
- 3) RU WL. RIH w/ CIBP. Set CIBP @ 6529', dump bail 2 sx of cement on top.
- 4) Run CBL from 4600' to surface under no pressure. If bond good from 3998' to surface, proceed to step 5, otherwise contact engineer.
- 5) RIH w/ perf gun. Perforate 4 1/2" casing @ 4540' and 4008'.
- 6) RIH w/ CICR. Set CICR @ 4440'. Pump 210 sx through and 35 sx on top (TOC ~4000').
- 7) POOH w/ workstring to 2910'. Pump 65 sx balance plug (TOC ~2085').
- 8) POOH w/ workstring to 409'. Pump 35 sx shoe plug. Cement to surface.
- 9) SI, WOC. RIH. Tag shoe plug. Add cement if needed.
- 10) Cut surface casing off 6'-8' below ground.
- 11) Clean up location. Reclaim location. RDMO.

NOBLE ENERGY INC.
GUNTHER 18-02
SENE 18-5N-64W
1986 FNL & 660 FEL
WELD COUNTY, CO
Wattenberg
CURRENT WELLBORE SCHEMATIC
with PROPOSED P&A
11/8/2016

API: 05-123-12263

GL Elev: 4620'
 KB Elev: 4630'

Spud Date: 2/13/1985

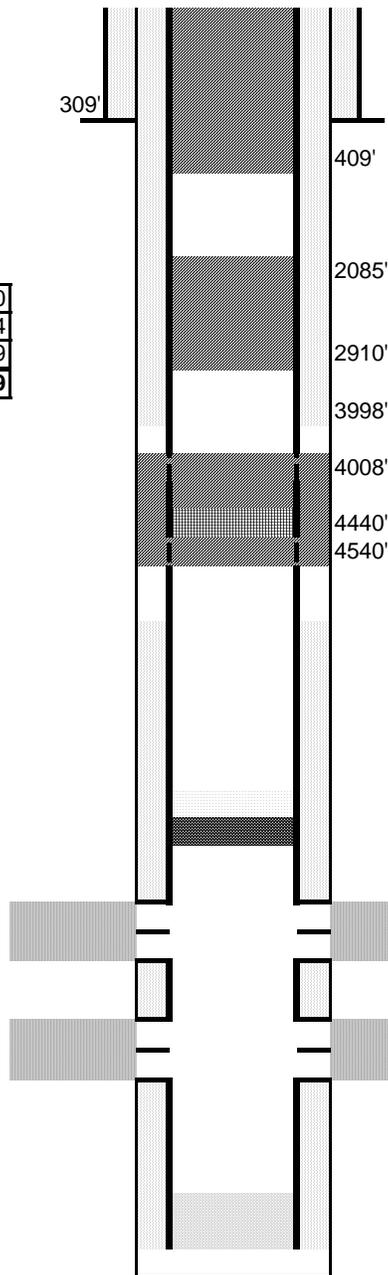
Surface Casing:
 8.625" 24# @ 309' KB
 Cement: 310 sx
 TOC: Surface

Water Well	100	250
FH:	254	404
Sfc Casing	309	409
Min. shoe plug depth:		409

TOC @ 6252'

Nio Log Top: 6572'

Production Casing:
 4.5" 11.6# N-80 @ 6938' KB
 Cement: 697 sx
 TD: 2/19/1985



Cut surface casing off 6'-8' below surface.

Pump approx 35 sx shoe plug @ 409'
 Will bring cement to surface.

Pump 65 balance plug at 2910'

Perforate 4 1/2" casing @ 4000'
 Pump 210 sx through and 35 sx on top
 Set CICR @ 4450'
 Perforate 4 1/2" casing @ 4550'

Set CIBP @ 6529' w/ 2 sx cement on top

Niobrara Perforations: 6579-6770' KB

Codell Perforations: 6862-6874' KB

TD: 6970' KB