



Speicher 31-15

P&A Procedure

Engineer: Brian Ulmer (303-905-4467)

Authored: 3/30/2017

LOCATION:

Qtr/Qtr: NWNE Section: 15 Township: 6N Range: 64W
Footages: 676 FNL & 1799 FEL

COUNTY: WELD STATE: CO API #: 05-123-23539

WELL DATA: Surface Csg: 8-5/8", J-55, 24# @ 880' KB Elevation: 4,795
Surface Cmt: 495 sx GL Elevation: 4,783
Long St Csg: 4-1/2", I-80, 11.60# @ 7074' TD: 7,100
Long St Cmt: 420 sx PBTD: 6,907
Long St Date: 3/4/2006

Plug Back (Sand or CIBP): Sand
Perforation Interval (1): Niobrara Perforations: 6,714' - 6862'
Perforation Interval (2): _____
Perforation Interval (3): _____
Tubing: 2-3/8", J-55, 4.70# @ 6698' Rods: N/A
Pump: _____
Misc.: _____
Misc.: _____

PRODUCTION STATUS: Well not producing. Frac'd into by Lapp HZ new drills.

COMMENTS: Deepest water well within 1 mile - 780'.

PROCEDURE:

- 1) MIRU Workover rig, pump & tank.
- 2) POOH and stand back tbg
- 3) RU WL and RIH w/ CIBP and set @ 6664' (50' above Nio top perf).
- 4) Dump bail 2 sx of Class G Neat cement on top of CIBP. TOC: 6639'
- 5) RIH w/ 1' perforating gun and shoot 4-6 spf @ 2500'.
- 6) RIH w/ CICR on workstring and set @ 2400' (100' above perforations).
- 7) Pump 10 bbls Mud Flush (or similar spacer) followed by 240 sx of cement.
- 8) Place remaining 2 bbls of cement on top of CICR. Allow to fall on CICR as pulling out. TOC: 2271'
- 9) RIH w/ WL and cut production casing at 1080' (200' below surface shoe, Fox Hills, or deepest water well).
- 10) POOH and LD production casing; filling pipe every 6 joints
- 11) RIH w/ workstring to 1130' (attempt 50' inside of cut casing top)
- 12) Pump 10 bbls mud flush (or similar spacer) followed by 375 sx of cement as a shoe plug. TOC should be at surface.
- 13) POOH w/ workstring. Top off cement if needed. Cement needs to be ~10' from surface.
- 14) ND BOP. Top off cement as needed.
- 15) RDMO.

NOBLE ENERGY INC.
 Speicher 31-15
 NWNE 15-6N-64W
 676 FNL & 1799 FEL
 WELD COUNTY, CO
 Wattenberg
CURRENT WELLBORE SCHEMATIC
 with PROPOSED P&A

API: 05-123-23539
 COGCC #

GL Elev: 4783
 KB Elev: 4795

Spud Date: 3/3/2006

Surface Casing :
 8-5/8", J-55, 24# @ 880'
 Cement: 495 sx
 TOC: Surface

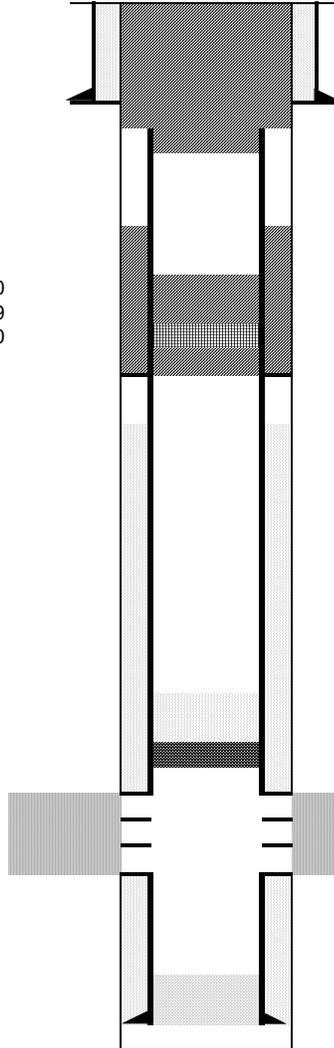
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|-----------|-----|------|
| WW | 780 | 980 |
| FH | 469 | 669 |
| SC | 880 | 1080 |

No Sussex completions within 1 mile

TOC @ 3270'

Nio Top 6713'

Production Casing :
 4-1/2", I-80, 11.60# @ 7074'
 Cement: 420 sx
 TD Date: 3/4/2006



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

Cut production casing at 1080'
 Cmt to surface with 375 sx at 1130'

Pump 240 sx plug through/on CICR
 Cmt Coverage inside PC: 2271'
 Cmt Coverage outside PC: 2000'-2500'
 Set CICR at 2400'
 Shoot sqz perms at 2500'

Set CIBP at 6664' with 2 sx cement
 New TOC: 6639'

Niobrara Perforations: 6,714' - 6862'

TD: 7100