

**FIRESTIEN 30-44**

P&A Procedure

Engineer: BEN ZAPP (CELL #303-241-1273)

Date: 4/12/17



**LOCATION:**

Qtr/Qtr: SESE Section: 30 Township: 6N Range: 66W  
 Footages: 646 FSL & 668 FEL  
 COUNTY: WELD STATE: CO API #: 05-123-26675

**WELL DATA:**

Surface Csg: 8.625" 24# J-55 @ 412' KB KB Elevation: 4735'  
 Surface Cmt: 260 sx GL Elevation: 4724'  
 Long St Csg: 4.5" 11.6# M-80 @ 7230' KB TD: 7254' KB  
 Long St Cmt: 1230 sx PBDT: 7200' KB  
 Long St Date: 2/23/2008

Plug Back (Sand or CIBP): Fill  
 Perforation Interval (1): Codell Perforations: 7040-7060' KB  
 Perforation Interval (2): \_\_\_\_\_  
 Perforation Interval (3): \_\_\_\_\_  
 Tubing: 2.375" @ 7012' KB Rods: \_\_\_\_\_  
 Pump: \_\_\_\_\_  
 Misc.: \_\_\_\_\_

**PRODUCTION STATUS:**

Producing

**BRADENHEAD:**

No issues

**FOX HILLS COVERAGE:**

Yes

**COMMENTS:**

Sussex wells in area, well has annular coverage over the Sussex currently.

**PROCEDURE:**

- 1) MIRU workover rig, pump, and tank.
- 2) Blow down well and roll hole with fresh water, if possible.
- 3) ND WH, NU BOP.
- 4) POOH and stand back tbq.
- 5) RIH w/ hydromechanical CIBP on workstring and set @ 6990'.
- 6) Pump 40 sx of Class G Neat cement on top of CIBP. New TOC: 6525'
- 7) Load hole with fluid and pressure test CIBP to 1000 psi with rig pumps. Hold for 15 minutes.  
Test will be considered successful if lose less than 100 psi. If test is unsuccessful, contact engineer.
- 8) RIH w/ workstring to 4400' and pump 50 sx Class G Neat cement balanced plug to 3800'

Length (ft)	OD (in)	ID (in)	ft <sup>3</sup> /ft	Volume (ft <sup>3</sup> )	Yield (ft <sup>3</sup> /sk)	Cement (sk)	Nearest 5sk
600	4.000	0.000	0.087	52	1.150	46	50

- 9) POOH w/ workstring to 2500' and pump 40 sx balanced plug of Class G Neat cement to 2000'.

Length (ft)	OD (in)	ID (in)	ft <sup>3</sup> /ft	Volume (ft <sup>3</sup> )	Yield (ft <sup>3</sup> /sk)	Cement (sk)	Nearest 5sk
500	4.000	0.000	0.087	44	1.150	38	40

- 10) RIH w/ workstring to 612' (200' below SC set depth)

- 11) Circulate a MINIMUM of 2 bottoms up volumes (12 bbls) or until well is free of oil, gas, or any large cuttings.

Length (ft)	OD (in)	ID (in)	BBL/ft	Disp (BBL)	2x Disp (BBL)
612	4.000	2.375	0.0101	6	12
<b>TOTAL:</b>				<b>12</b>	

- 12) Perform flow check for 5 minutes to ensure well is static and record current fluid weight in WellView.

- 13) Establish circulation.

- 14) Pump 10 bbls Mud Flush (or similar spacer) followed by 50 sx of Class G Neat cement as a balanced plug. TOC @ Surface.

Length (ft)	OD (in)	ID (in)	ft <sup>3</sup> /ft	Volume (ft <sup>3</sup> )	Yield (ft <sup>3</sup> /sk)	Cement (sk)	Nearest 5sk
612	4.000	0.000	0.087	53	1.150	46	50
<b>TOTAL:</b>						<b>50</b>	

- 15) POOH workstring. Top off cement as needed. Cement needs to be ~10' from surface.

- 16) ND BOP.

- 17) RDMO.

**NOBLE ENERGY INC.**  
**FIRESTIEN 30-44**  
**SESE 30-6N-66W**  
**646 FSL & 668 FEL**  
**WELD COUNTY, CO**  
**Wattenberg**  
**PROPOSED WELLBORE SCHEMATIC**  
**for P&A**  
**Date: 4/12/17**  
**Drawing not to scale**

API: 05-123-26675

GL Elev: 4724'  
 KB Elev: 4735'

TOC @ 100'

Spud Date: 2/18/2008

**Surface Casing:**  
 8.625" 24# J-55 @ 412' KB  
 Cement: 260 sx  
 TOC: Surface

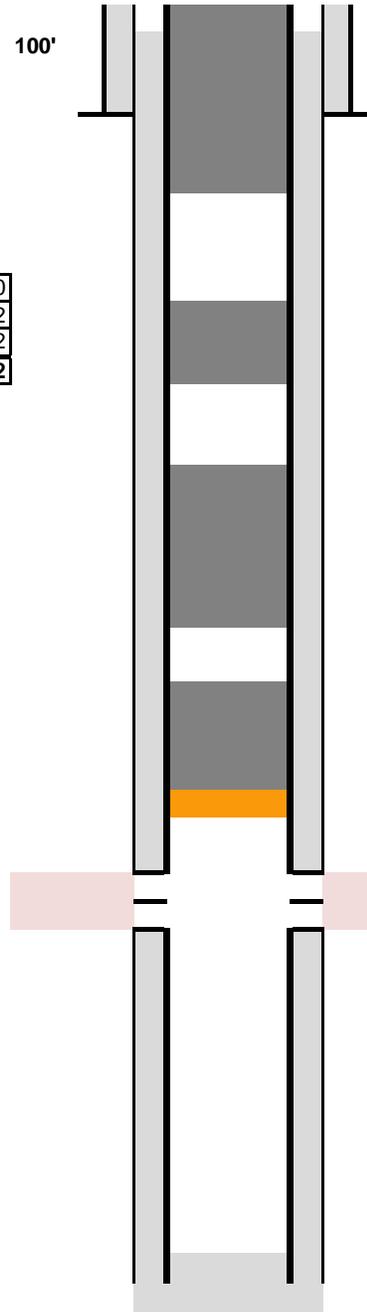
Water Well	50	250
FH:	312	512
Sfc Casing	412	612
Min. shoe plug depth:		<b>612</b>

Sussex Top: 3998'

Sussex Base: 4298'

Nio Log Top: 6725'

**Production Casing:**  
 4.5" 11.6# M-80 @ 7230' KB  
 Cement: 1230 sx  
 TD: 2/23/2008



TOC @ Surface  
 Cut surface casing off 6'-8' below surface.

RIH w/ workstring @ 612' and pump 50 sx to surface

New TOC: 2000'

Pump 40 sx balanced plug at 2500'

New TOC: 3800'

Pump 50 sx balanced plug at 4400'

TOC: 6525'

Set CIBP @ 6990' w/ 40sx cement on top

Codell Perforations: 7040-7060' KB

TD: 7254' KB

LEGEND	
Existing Cement	Light Grey
New Cement	Dark Grey
CICR	Green
CIBP	Orange
Existing BP	Light Orange
Sand Plug	Light Green