



Sinjin E36-06

Engineer: John Hatch, 303.505.6589

WELLBORE NOTES

WELL NAME: SINJIN E36-06 DATE: 2/2/2017
LOCATION: _____
Qtr/Qtr: SENW Section: 36 Township: 6N Range: 65W
Footages: 1989 FNL & 1975 FWL
COUNTY: WELD STATE: CO API #: 05-123-16354
ENGINEER: JOHN HATCH 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# ? @ 313' KB KB Elevation: 4662'
Surface Cmt: 300 sx GL Elevation: 4653'
Long St Csg: 2.875" 7.9# PH-6 @ 7049' KB TD: 7073' KB
Long St Cmt: 290 sx PBTD: 6862' KB
Long St Date: 1/31/1993
Plug Back (Sand or CIBP): FILL
Perforation Interval (1): Niobrara Perforations: 0-0' KB
Perforation Interval (2): Codell Perforations: 6898-6908' KB
Perforation Interval (3): _____
Tubing: Wellfile indicates no tbg d/h Rods: _____
Pump: _____
Misc.: _____
PRODUCTION STATUS: Well has been S/I for pressure build.
COMMENTS: Wellhead has no bradenhead issues, 0 psi. Foxhills is covered.

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) RIH w/ CIBP and set @ 6846' (50' above Nio or Codell top perf)
- 5) Set hydromechanical CIBP, pump 15 sx of Class G Neat cement on top of CIBP.
 - Needs to be 200' above Niobrara top. Nio top is 6621'.
 - Cement calculation: $456 \text{ ft} \times 0.02943 \text{ ft}^3/\text{ft} = 40 \text{ ft}^3 \times 1.15 \text{ ft}^3/\text{sx} = 15 \text{ sx}$
- 6) 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.
- 7) RIH w/ 1' perforating gun and shoot 4-6 spf @ 3528'. (above Parkman formation)
- 8) RU WL, RIH w/ CICR and set @ 3428'.
- 9) Load annulus between production casing and workstring. Test to 500 psi for 15 minutes. Test is considered successful if lose less than 50 psi. If pressure test fails, contact engineer.
- 10) Establish injection rate.
- 11) Pump 10 bbls Mud Flush (or similar spacer) followed by 131 sx of cement. (cover 300'). Unsting out of the CIRC and pump 8 sx on top of the CICR using 1 1/16" CS Hydrill.
 - Annulus capacity (10" open hole & 2 7/8" csg) - $0.5003 \text{ ft}^3/\text{ft}$
 - Annulus cement volume: $300 \text{ ft} \times 0.5003 \text{ ft}^3/\text{ft} = 217 \text{ ft}^3/1.15 \text{ ft}^3/\text{sx} = 131 \text{ sx}$
 - 2 7/8" casing volume calculations: $300 \text{ ft} \times 0.02943 \text{ ft}^3/\text{ft} = 8.8 \text{ ft}^3/1.15 \text{ ft}^3/\text{sx} = 8 \text{ sx}$
- 12) Displace cement with 2 bbls fresh water. (using 1 1/16" CS Hydrill)
 - Flush volume calculation: $3228 \text{ ft} \times 0.00066 \text{ bbl}/\text{ft} = 2 \text{ bbls}$
- 13) Unsting from CICR.
- 14) POOH w/ workstring.
- 15) RIH w/ WL and cut production casing at 513'. (200' below surface shoe or deepest water well)
- 16) Circulate a MINIMUM of 2 bottoms up volumes (242 bbls) or until well is free of oil, gas, or any large cuttings.
 - Flush volume calculation:
 - 2 7/8" csg x 10" open hole: $200 \text{ ft} \times 0.5003 \text{ bbls}/\text{ft} = 100 \text{ bbls}$
 - 2 7/8" csg in 8 5/8" surf csg: $313 \text{ ft} \times 0.0557 \text{ bbls}/\text{ft} = 18 \text{ bbls}$
 - 2 7/8" csg volume: $513 \text{ ft} \times 0.00524 \text{ bbls}/\text{ft} = 3 \text{ bbls}$
 - Total volume: $121 \text{ bbls} \times 2 = 242 \text{ bbls}$

- 17) Perform flow check for 5 minutes to ensure well is static and record current fluid weight in WellView.
- 18) Unland production casing.
- 19) POOH and LD production casing filling pipe every 6 joints.
- 20) RIH w/ workstring to 513' (top of casing).
- 21) Establish circulation.
- 22) Pump 10 bbls Mud Flush (or similar spacer) followed by 192 sx of cement as a balanced plug. TOC should be at surface.
 - Cement calculations:
 - 10" Open hole: $200 \text{ ft} \times 0.5455 \text{ ft}^3/\text{ft} = 109 \text{ ft}^3/1.15\text{ft}^3/\text{sx} = 95 \text{ sx}$
 - 8 5/8" Surface casing: $313 \text{ ft} \times 0.3575 \text{ ft}^3/\text{ft} = 112\text{ft}^3/1.15\text{ft}^3/\text{sx} = 97 \text{ sx}$
 - Vol. inside 2 3/8" WS, below retainer: $100 \text{ ft} \times 0.02171 \text{ ft}^3/\text{ft} = 2.171/1.15 = 2 \text{ sx}$
 - Total sx to surface = 194 sx
- 23) POOH w/ workstring. Top off cement if needed. Cement needs to be ~10' from surface.
- 24) ND BOP. Top off cement as needed.
- 25) RDMO.