

WORKOVER PROCEDURE

WELL NAME: CUSHMAN GRACE UT 1 **DATE:** 1/20/2016

LOCATION:
Qtr/Qtr: SW/SW Section: 20 Township: 4N Range: 66W
Footages: 990 FSL & 990 FWL

COUNTY: WELD **STATE:** CO **API #:** 05-123-07283

ENGINEER: JOSH CHEBUL **7 Day Notice Sent:** _____
(Please notify Engineer of any major changes prior to work) **Do not start operations until:** _____
Notice Expires: _____

OBJECTIVE: P&A

WELL DATA: Surface Csg: 8-5/8" 24# K-55 @ 577' KB Elevation: 4762'
Surface Cmt: 550 sx GL Elevation: 4750'
Long St Csg: 4-1/2" 10.5# K-55 @ 7840' TD: 7840'
Long St Cmt: 200 sx PBTD: 7809'
Long St Date: 4/6/1971

Plug Back (Sand or CIBP): _____
Perforation Interval (1): Codell Perforations 7238'-7258'
Perforation Interval (2): J Sand Perforations 7726'-7740', 7748'-7782', & 7766'-7766'
Perforation Interval (3): _____
Tubing: 2 3/8" 4.70# J-55 @ 7724' Rods: N/A
Pump: _____
Misc.: This well had a cement squeeze from 881'-surface (850 sx).
It also had a cement squeeze from 2000'-3662' (861 sx).
There is a retrievable tubing packer set at 2985'.

PRODUCTION STATUS: Producing
COMMENTS: Well is uneconomic to continue to produce.

PROCEDURE:

- 1) MIRU workover rig, pump & tank.
- 2) POOH w/ 2-3/8" tbg and lay down. Note that the well has an Arrow set retrievable packer in the tbg string at 2985'.
- 3) RU WL. Run a CBL from TD to surface to document cement quality.
Redesign abandonment procedure if inadequate cement coverage is identified.
- 4) RIH w/ CIBP. Set CIBP @ 7676'. Dump bail 2 sx of cement on top.
- 5) RIH w/ CIBP. Set CIBP @ 7188'. POOH.
- 6) RIH w/ workstring to pump 10 sx plug atop the CIBP.
- 7) Pull uphole and set a balanced plug at 2500' with 50 sx. (Courtesy plug and to cover historic leaking casing joint.)
If maintain circulation, no need to tag plug.
- 8) POOH w/ workstring to 680'. Pump 55 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. RDMOL.