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2/8/2022

Packer Install and WH Change for Safety Prep

KOESTER 12-33

API: 05-123-21704

WINS: 75731

Step Description

1	Well needs Packer installed and WH change and updated valves/fittings for safety prep. If well has 6-pin 5K wellhead, contact foreman to consider changing. Well is a leaseholder - cannot leave any plugs downhole. Frac is 1237' away from the well.
2	Contact field foreman or field coordinator before rig up to isolate production equipment if possible. Notify Automation Removal Group at least 24 hours prior to rig move. If surface casing is not accessible at ground level, re-pipe so valve is at ground level. Plug all disconnected valves around wellhead.
3	MIRU Slickline. Pull production equipment and tag bottom. Record tag depth, pressures, and fluid level in Open Wells. Well has Gyro from 10/30/14. RDMO Slickline.
4	Prepare location for base beam equipped rig. Install perimeter fence as needed.
5	Refer to BOP testing guidelines, fluid barrier management, and tripping best practices as applicable. All wireline operations will need a flanged changeover, WL BOP, Lubricator with an ID to fit the largest OD of the toolstring, and a packoff. WL and Slickline max speed is 500 ft/min. Please contact foreman to discuss arrangement of stack, or alternate plan. Contact your foremen with any questions regarding standard operating procedures or any potential deviations.
6	MIRU WO rig. Spot an empty tubing float. Kill well as necessary using fresh water with biocide. ND WH. NU BOP. Unland tbg using unlanding joint and LD unlanding joint. If the well does not die with fresh water, contact engineering/foremen to consider setting 2 RBPs for the WH change. **Barrier Management** Fluid will be the only barrier while NU BOP. Stop and review JSA.
7	TOOH tallying. SB 7217' 2-3/8" tbg. LD any remainder.
8	PU and TIH with (4-1/2", 11.6#) bit and scraper on 2-3/8" tubing to 6905'. Clean section from 6875'-6905' 2-3 times to ensure casing is clean for Packer set. TOOH while SB all 2-3/8" tubing. LD bit and scraper.
9	PU and TIH with 10,000 psi rated RBP above and below (4-1/2", 11.6#) on 2-3/8" tubing. Set RBP at +/-3700.
10	Load hole with fresh water + biocide and circulate all gas out of well. Pressure test casing to 500 psi and hold for 15 minutes. No leakoff is acceptable. If leakoff occurs, contact engineer or foreman.
11	Stack out tubing on RBP. ND BOPs and tubing head. NU 5K tubing head. NU BOPs. Pick up tubing and close pipe rams. Pressure test casing to 500 psi and hold for 15 minutes. No leakoff is acceptable. If leakoff occurs, contact engineer or foreman. TOOH and LD RBP.
12	MIRU Hydrotesters. Hydrotest production string on the way in to 6,000 psi below the slips (note: this pressure is 80% of burst for 2-3/8" J55 tubing - if using a different tubing, change pressure). PU and TIH with 2-3/8" NC, 2-3/8" XN nipple, ~10 jts of 2-3/8" tbg to get the EOT at +/- 7217' with a 10K rated Packer above and below (4-1/2", 11.6#) on 2-3/8" tbg. Packer will be set at 6890' in 15,000-20,000 lbs compression (collars at 6883' and 6926') with EOT at +/- 7217'. RDMO Hydrotesters.
13	Reverse circulate the backside volume at least once with packer fluid at a low rate (about 1 bpm recommended, confirm with Foreman/Packerhand on the specific packer) to not wash out packer elements. Have SDS on location. Set packer at 6890'. Land tubing. Proceed to pressure test backside to 500 psi and hold for 15 minutes. No leakoff is acceptable. If leakoff occurs, contact engineer or foreman.
14	Install two 5,000 psi rated casing valves on the offside and two 5,000 psi rated casing valves on the flowline side for a total of 4 casing valves and XXH nipples (8" XXH nipple between wellhead and first casing valve and 4" XXH nipple between the two casing valves).
15	RU slickline. Broach tubing to XN nipple with broach measured to tubing drift. RD slickline.

16	ND BOP. Land tubing in tubing hanger. NU 7-1/16", 5K flanged tubing head adaptor w/ two new 2-1/16", 5K flanged master valves. Put new R46 gasket on tubing head. Install new tubing hanger ring gaskets. Install new lockdown screw packing. Ensure WH, valves, and fittings are rated to 5K. All soft goods should be new. Torque and test WH. Create Wellhead Report in OpenWells.
17	If Seabord/Weir - RU hydrotester. Install 2-3/8" pup joint above master valve. Hydrotest wellhead first to 250 psi for a low pressure test for 15 minutes. Then, hydrotest wellhead to 5,000 psi for 15 minutes. Document results. No leakoff is acceptable. RD hydrotester. If GE - pressure test void first to 250 psi for a low pressure test for 15 minutes. Then, pressure wellhead to 5,000 psi for 15 minutes. Document results. No leakoff is acceptable. Bleed off all pressure from the void when you are done.
18	Ensure fluid level on the backside is static and not surging any fluid out of the casing valves. Use rig air compressor to blow air across casing valves to ensure no fluid is in or between valves.
19	Secure wellhead, clean up location. RDMO WO rig. Hang HZ Safety Prep sign on wellhead.