PLUG AND ABANDOMENT PROCEDURE

David Dalton - Production Engineer I
970-339-1015
David.Dalton@anadarko.com

FANTASTYK RED V 1-10

Step	Description of Work
1	Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call Automation Removal Group at least 24 hr prior to rig move. Request they isolate production equipment prior to rig MIRU.
2	Check and report surface casing pressure. If surface casing is not accessible at ground level, re-plumb so valve is at ground level. If pressure is found on surface casing, report to Evans Engineering before operations begin.
3	Prepare location for base beam equipped rig. Install perimeter fence as needed.
4	MIRU. Bleed any pressure off of production casing. There is a CIBP/cement plug above all perfs. ND WH. NU BOP. Unseat landing jt.
5	TOOH and stand back 4500' of 2.063" IJ tbg. LD remaining tbg: 202 jts landed @ 6509' KB.
6	RU hydro-testers and test 3 1/2" casing to 1000 PSI for 15 minutes.
7	TIH w/ 2.063" tbg open-ended to 4500'. Hydro-test tbg to 3000 psi.
8	RU cementers and place a balanced plug from 4500' to 3920' as follows: 25 sx class "G" w/ 0.5% CFR-2, 0.2% FMC, 0.5% LWA mixed at 15.8 ppg and 1.15 cf/sk. (29 cuft of slurry).
9	TOH to ~3000. Circulate water containing biocide to clear tubing and casing. WOC per cementing company recommendation.
10	Tag cement @ 3920'. TOOH and stand back 1100' of tbg.
11	MIRU WL. Crack coupling or cut casing at 1100'. RDMO WL. Circulate bottoms up and continue circulating to remove any gas from wellbore.
12	ND BOP and wellhead. Install BOP on surface casing head with 3 1/2" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.
13	TOOH and LD 3 1/2'' casing.
14	TIH with tubing open-ended to 1100' (3 1/2" stub).
15	RU cementers. Establish circulation and circulate bottoms up. Pump 10 bbl SAPP (Sodium Acid Pyrophosphate) followed by 20 bbl (min) fresh water spacer immediately preceding cement.

16 Pump a balanced plug 1100'-310': 330 sx (439 cuft.) Type III cement w/ 0.25 pps Polyflake, 0.3% CFR-2, 0.3% CFL-3 and 0.5% CaCl2 mixed at 14.8 ppg and 1.33 cf/sk. Design to fill 590' in 9'' OH + 40% excess and 200' in 8 5/8''surface casing.

17 TOOH. WOC per cementing company recommendation. Tag Cement. TOC should be at or above 410'. If not, consult Evans Engineering.

18 MIRU WL. RIH 8 5/8'' CIBP to 80'. Set and PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.

19 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hrs of completion of the job.

20 Supervisor submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.

21 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.

22 Excavate hole around surface casing enough to allow welder to cut 8 5/8” casing minimum 5’ below ground level.

23 Welder cut 8 5/8'' casing minimum 5' below ground level.

24 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).

25 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.

26 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.

27 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.

28 Back fill hole with fill. Clean location, level.

29 Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.