



Install Gas Lift Valves And Unload Well

MMS PROCEDURE

November 29, 2005

Well Name: West Cameron 66, OCS-G 01860, No. D-7 ST2

Prepared By: Pat Ellis



Objective/scope of work:

The WC 66 D-7 ST#2 was drilled (sidetracked) and completed in February 2005. The well was not perforated with the rig on location because the facilities were not yet in place to accept flow. The "MB" Sand was perforated thru-tubing from 12,873'-883' MD on March 11, 2005. The well loaded up and died during testing operations with no indications of hydrocarbons to surface. The well was plugged back and recompleted to the "MB" Sand (12,872'-12,880' MD) on March 28, 2005. Following the passage of Hurricane Rita in September 2005 the well was found to be loaded up. Attempts to unload the well have been unsuccessful.

The objective of this procedure is to install gas lift valves in the existing mandrels in the production string and unload the well. To date the well has produced 598 MMCF, 6.3 MBC and 5.4 MBW.

Last test: 9-12-05 3,825 MCFD, 28 BCDP, 61 BWPD, FTP = 2,250 psi, SITP = 3,500 psi

Completion Information:

"Current" Completion

Reservoir:	"MB" Sand
Plugback:	Bridge plug with 20' cement, TOC at 12,940' MD, BP at 12,960' MD
Perforations:	12,872'-12,880' MD (10,380'-10,386' TVD)
Estimated BHT:	220 deg F
Estimated BHP:	Est. - 4,300 psi
Max. Anticipated SITP:	3,500 psi - June 2005

Existing Casing and Tubing Information:

Datum: RKB to THF = 76' (per BJ tubing detail dated 2-28-05)
 Total Depth: 13,262' MD (10,644' TVD)
 PBTD: 13,146' MD (10,566' TVD)
 Deviated. Window is cut at 7,976'. Well angle is approx. 50 deg from 8,600' - 13,186'.

Tree Connection: 2-9/16", 5 ksi

Minimum I.D.: 2.313" at SCSSV and 'X' nipples at 356', 419', 11,942', 12,039'



Prior to starting this procedure, notify Teri Halverson when the job is about to load out and when the job is completed.

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Move In & Position Lift-Boat

1. Mobilize lift-boat to the West Cameron 66 “D” platform location. Position boat, begin pre-load operations and jack-up lift boat deck to the wellhead deck level.
2. Function test SCSSV.
3. Bleed pressure off of the SCSSV hydraulic control line to 0 psig, close needle valve at tree, break connection between the closed needle valve and the SCSSV, install a hand pump in the subsurface safety valve control line between the closed needle valve and the SCSSV. Open SCSSV by pressuring up on hydraulic control line with hand pump, **monitor** gauge to ensure sufficient pressure is maintained to hold the SCSSV open during all wire line and or coil tubing work.
4. Lock out SSV with fusible cap.
5. RU slick line and lubricator with pump-in sub. Test lubricator at 250 psi for 5 minutes and at 4,000 psi for 10 minutes. (SITP = 3,500 psi on 7-23-05)
6. PU & GIH with 1.875” gauge ring to the “X” nipple (ID = 2.313”) at 11,942’ MD. POOH.
7. PU & GIH with standing valve and set in “X” nipple at 11,942’ MD. POOH.
8. PU & GIH with junk basket and set on top of standing valve set at 11,942’ MD. POOH.
9. GIH and pull dummies set in each of the upper (7) GLM’s (at 1519’, 2116’, 2650’, 3248’, 3845’, 4570’ & 5578’ MD) in the production string.
10. GIH and set live valves in each of the upper (7) GLM’s (at 1519’, 2116’, 2650’, 3248’, 3845’, 4570’ & 5578’ MD) in the production string per the attached Weatherford - “Nitrogen Valve Design Sheet” dated 12-2-05.
11. RU Nitrogen pump, Nitrogen tanks and surface injection lines to the casing valve.
12. RU surface return lines from wing valve to gas buster and 3- compartment tank then to the water treatment equipment and over board discharge line.



13. Open well, begin injecting Nitrogen “lift” gas at +/- 950 psi and unload the annulus and production tubing to the flow back equipment.
14. GIH and pull junk basket. POOH.
15. GIH and pull standing valve set at 11,942’ MD. POOH.
16. Begin injecting Nitrogen “lift” gas and unload the well to Gas Buster & 3-compartment surface tank.
17. Function test SCSSV.
18. Turn well to production and flow test well.
19. De-mob all equipment and personnel to dock.