

**MONFORTE EXPLORATION
OCS-G 0786 WELL NO. E-4
SOUTH MARSH ISLAND BLK. 48
OFFSHORE LOUISIANA
Plugback for Sidetrack Procedure**

March 25, 2013

WELL DATA:

30" Drive Pipe	-	379' (207' SP)
20" Conductor Casing	-	870'
13-3/8" Surface Casing	-	3,527 MD/TVD
9-5/8" Intermediate Casing	-	9,260' MD/8,949' TVD
7" Production Casing	-	11,542' MD/11,226' TVD
2-7/8" Production Tubing	-	10,107' MD/9,793' TVD
Total Depth	-	11,542' MD/11,226' TVD
Plugback TD	-	9,159' MD
Completion Fluid	-	14.0 ppg CaCl ₂
Current RKB Elevation	-	113'
Water Depth	-	96'

PROCEDURE:

1. Skid Rowan Rig Cecil Provine over well. Rig up on tubing and attempt to establish injection with seawater. Attempt previously made on 6/5/12 with 4,500 psi with no success. Check well for pressure and bleed off any trapped pressure.
2. Close SCSSV. Install BPV in tubing hanger. Remove tree.
3. Nipple up BOP's on 7-1/16", 10M x 11", 5M tubing head. Install VBR's in both sets of pipe rams for 2-7/8" to 5" sealing range. Test BOP's to 250 psi low and 5,000 psi high per BSEE regulations with 2-7/8" tubing and 3-1/2" drill pipe. Remove BPV.
4. Rig up slickline unit. Test lubricator to 1,000 psi. Lock open the SCSSV at 426' (CAMCO TRM-4A SCSSV). Make gauge ring run to ±9,080' MD. Rig down slickline unit.
5. Rig up electric wireline unit. Test lubricator to 1,000 psi. Run in hole with cutter and cut 2-7/8" tubing at ±9,050' MD. Displace tubing and casing with 14.0 ppg mud from cut at ±9,050'. POOH with wireline and rig down same.

6. Screw into tubing hanger with 2-7/8" tubing. Back out lock-down pins from top of tubing head. Pull and lay down tubing hanger, SCSSV, accessories and cut 2-7/8" tubing. Inspect recovered tubing and accessories for NORM prior to shipment to shore base. Pick up a 6" bit and 7", 29# casing scraper BHA on 3-1/2" drill pipe and trip in hole to top of cut 2-7/8" tubing at ±9,050'. POOH.
7. Pick up and trip in hole with a 7", 29" cement retainer. Set 20' above 2-7/8" tubing cut at ±9,030'. POOH.
8. Pick up and trip in hole with stinger for 7" cement retainer. Sting into retainer and test annulus to 1,000 psi. Establish injection below retainer. Mix 96 sacks (103 cu. ft.) of cement. Squeeze 77 sacks (82 cu. ft.) below retainer. Sting out of retainer and spot 20 sacks (21 cu. ft.) above retainer. Pull stinger up to ±8,950' and reverse out two drill pipe volumes. (NOTE: If injection cannot be established below the retainer, test below retainer to 2,000 psi for 30 minutes and record on chart. Spot 100' of cement above the retainer as shown above.) Test plug to 1,000 psi for 30 minutes and record on chart. POOH.
9. Nipple down BOP's and remove 11", 5M x 7-1/16", 10M tubing head. Tack weld 7" casing hanger slips to 7" casing. Nipple up BOP's to 11", 5M x 13-5/8", 3M wellhead. Test BOP's to 250 psi low and 1,000 psi high. (NOTE: A full BOP test will be performed after bowl on wellhead is clear of hanger and casing.)
10. Trip in hole with 7" casing cutter and cut 7" casing at ±2,850' MD. Pick up 10' and close annular BOP or pipe rams. Attempt to circulate down 7" casing and up 7" x 9-5/8" annulus, taking returns out of casing valve. Circulate bottoms up and displace with 12.5 ppg water base mud. POOH with cutter. Spear 7" casing and pull same free. Pull out of hole and lay down cut 7" casing. Inspect recovered casing for NORM prior to shipment to shore base.
11. If casing will not pull free, release spear and POOH. Trip in hole with 7" casing cutter and cut 7" casing one joint below casing hanger. POOH with cutter. Spear 7" casing, pull cut casing and recover casing hanger. **(NOTE: Once the 7" casing is clear of the casing head/hanger bowl, fully test BOP's to 250 psi low and 5,000 psi high with 3-1/2" and 5" drill pipe (3,500 psi high for annular BOP) utilizing test plug).**
12. Continue cutting, washing over and pulling 7" casing as necessary until well is cleaned out to ±2,850'. Lay down 3-1/2" drill pipe.
13. Trip in hole with a 8-1/2" bit and 9-5/8", 43.5# casing scraper on 5" drill pipe to top of casing stub at ±2,850'. Circulate and condition 12.5 ppg water base mud. Pull out of hole.

14. Trip in hole with a 9-5/8" cement retainer. Set retainer at ±2,800'. Test annulus to 1,000 psi. Establish injection below retainer. Mix 86 sacks (92 cu. ft.) of cement. Squeeze 47 sacks (50 cu. ft.) below retainer. Sting out of retainer and spot 39 sacks (42 cu. ft.) above retainer (bottom of cement at ±3,050' in 7" x 9-5/8" annulus and top of cement at ±2,700'). Pull stinger up to ±2,650' and reverse out two drill pipe volumes. (NOTE: If injection cannot be established below the retainer, test below retainer to 2,000 psi for 30 minutes and record on chart. Spot 100' of cement above the retainer as shown above.) Pull out of hole.
15. Nipple down BOP's and remove 13-5/8", 3M x 11", 5M casing spool. Tack weld 9-5/8" casing hanger slips to 9-5/8" casing. Nipple up BOP's to 13-5/8", 3M x 20", SOW wellhead. Test BOP's to 250 psi low and 1,000 psi high. **(NOTE: A full BOP test to 250 psi low and 3,000 psi high will be performed after bowl on wellhead is clear of hanger and casing.)**
16. Trip in hole with 9-5/8" casing cutter and cut 9-5/8" casing at ±2,300'. Pick up 10' and close annular BOP or pipe rams. Attempt to circulate down 9-5/8" casing and up 9-5/8" x 13-3/8" annulus, taking returns out of casing valve. Circulate bottoms up. POOH with cutter. Spear 9-5/8" casing and pull same free. Pull out of hole and lay down cut 9-5/8" casing. Inspect recovered casing for NORM prior to shipment to shore base.
17. If casing will not pull free, release spear and POOH. Trip in hole with 9-5/8" casing cutter and cut 9-5/8" casing one joint below wellhead. POOH with casing cutter. Spear the 9-5/8" casing, pull and lay down cut casing and recover casing hanger.
18. Continue cutting, washing over and pulling 9-5/8" casing as necessary until casing is recovered down to cut at ±2,300'.
19. Trip in hole 12-1/4" bit and 13-3/8", 61.5# casing scraper to top of cut 9-5/8" at ±2,300'. Circulate and condition mud to 9.0 ppg. POOH.
20. Rig up electric wireline and test lubricator to 1,000 psi. Make gauge ring/CCL run to top of cut 9-5/8" casing at ±2,300'. Run and set a 13-3/8", 61# cement retainer 5' above first collar located above 2,300'. POOH with wireline and rig down same.
21. Trip in hole with stinger for 13-3/8" cement retainer. Sting into retainer and test annulus to 1,000 psi. Establish injection below retainer. Mix and squeeze 106 sacks (113 cu. ft.) of cement below retainer (bottom of cement at ±2,500' in 9-5/8" x 13-3/8" annulus and top of cement at ±2,250'). Sting out of retainer and reverse out two drill pipe volumes. POOH with stinger to 2,100'. Test 13-3/8" casing to 2,163 psi (70% of rated burst). Finish POOH.

22. Nipple down BOP's and remove 13-3/8", SOW x 13-5/8", 3M casing head. Install new 13-3/8", SOW x 13-5/8" 5M casing head. Test voids to 770 psi (50% of 13-3/8" casing collapse rating). Nipple up 13-5/8", 10M BOP's and test flange break between new casing head and BOP's to 5,000 psi.
23. Trip in hole with a 13-3/8" whipstock/window milling assembly.
24. Continue with sidetracking operations per Sidetrack Procedure.