



**ROBERT L. BAYLESS, PRODUCER LLC**  
**CASING REPAIR PROCEDURE**  
**HELLS HOLE 18-9**  
**RIO BLANCO COUNTY, COLORADO**  
**S.H. LOCATION: 463' FSL & 222' FEL (SESE)**  
**B.H. LOCATION: 2017' FSL & 816' FEL (NESE)**  
**SECTION 18-T2S-R103W**  
**API # 05-103-11407**

**CONTACT INFORMATION:**

(1) John Thomas	Office: (505) 564-7806	Cell: (505) 320-5234
(2) Albert Aranda	Office: (505) 326-2659	Cell: (505) 486-5006

<b><u>ELEVATION:</u></b>	KB: 6,584'	GL: 6,570'	(KB = 14')
<b><u>CASING:</u></b>	<b>9-5/8" 36# J-55</b>	8.921" ID; 8.765" Drift	From Surface-460'
	<b>ST&amp;C</b>		
	Burst: 3,520 psi	Collapse: 2,020 psi	Capacity: 0.0773 bbls/ft
	<b>4-1/2" 11.6# L-80</b>	4.000" ID; 3.875" Drift	From Surface-6,729'
	<b>LTC</b>		
	Burst: 7,780 psi	Collapse: 6,350 psi	Capacity: 0.0155 bbl/ft
<b><u>TD:</u></b>	6,857' TVD / 6,729 PBD		
<b><u>TUBING:</u></b>	<b>2-3/8" 4.7# J-55</b>	1.995" ID; 1.901" Drift	6,300' laid down
	<b>EUE</b>		
	Burst: 7,700 psi	Collapse: 8,100 psi	Capacity: 0.0039 bbls/ft
<b><u>PRESENT</u></b>			
<b><u>CONDITION:</u></b>	Shut in. Perforations isolated under plug.		

**DRIVING****DIRECTIONS:**

From the center of Rangely, Colorado, travel southerly on CR 23 for approximately 18.7 miles to the end of CR 23. (Pass Rabbit Mountain and CR 116 turn off). Turn left at intersection (pass the gate) and travel 0.9 miles on private road. Speed limit 20 MPH, Gate lock – 2659. Veer right (second right from the gate) and travel 1.5 miles. Veer right and travel 0.4 miles to location. Location is approximately 23 miles from Rangely, Colorado.

**OBJECTIVE:**

Repair.

**SUMMARIZED****PROCEDURE:**

1. MIRU workover rig
2. Set CBP Below holes
3. Squeeze cement across holes.
4. WOC
5. Drill out cement and CBP
6. Test Casing
7. Retrieve RBP

**EHS:**

- ROBERT L BAYLESS, PRODUCER LLC REQUIRES THAT ALL EMPLOYEES AND CONTRACTORS WHO PERFORM WORK AT A BAYLESS LOCATION PLACE A HIGH PRIORITY ON ENVIRONMENTAL, HEALTH, AND SAFETY PERFORMANCE.
- CONTRACTORS SHALL CONFORM TO ALL SAFETY AND ENVIRONMENT REGULATIONS SET FORTH BY THE BLM, STATE OF COLORADO, EPA, OSHA, ROBERT L BAYLESS, PRODUCER LLC AND ALL OTHERS IN PERFORMANCE OF THE WORK. PERSONNEL VIOLATING KNOWN SAFETY PROCEDURES OR POLICY ARE SUBJECT TO IMMEDIATE REMOVAL FROM BAYLESS PROPERTY.
- NO TASK IS SO IMPORTANT THAT IT BE PERFORMED AT THE RISK OF HEALTH AND SAFETY. EVERY PERSON ON LOCATION HAS THE AUTHORITY, AND OBLIGATION, TO STOP WORK AT ANYTIME IF UNSAFE CONDITIONS ARE OBSERVED.
- ALL PERSONELL ON LOCATION SHALL UTILIZE PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED BY BAYLESS, CONTRACTORS, OR REGULATORS.
- THE WORK AREA WILL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION. MINOR LEAKS AND SPILLS MUST BE CLEANED UP PROMPTLY AND THE SOURCE OF THE SPILL/LEAK REPAIRED.
- MAJOR LEAKS MUST BE CONTAINED AND REPORTED TO BAYLESS REPRESENTATIVE AND CONTRACTOR SUPERVISOR. REPORTABLE SPILL VOLUMES MUST BE REPORTED TO APPROPRIATE REGULATORY AGENCIES.
- ALL WORK-RELATED ACCIDENTS, INJURIES, NEAR MISSES, AND UNSAFE CONDITIONS OR ACTS, REGARDLESS OF SEVERITY, SHALL BE IMMEDIATELY REPORTED TO AN ONSITE SERVICE COMPANY SUPERVISOR AND A BAYLESS REPRESENTATIVE.
- NO SMOKING IS ALLOWED AT WORK SITE EXCEPT FOR IN DESIGNATED AREAS.
- NO WORK, PARKING, OR OTHER ACTIVITIES SHOULD TAKE PLACE OUTSIDE OF THE PREVIOUSLY DISTURBED WORK AREA (LOCATION).

**OCCASIONALLY, EVENTS NECESSITATE DEVIATING FROM THE COMPLETION PROCEDURE. IF SAFETY IS AT RISK, PERFORM THE NECESSARY CHANGES AND THEN NOTIFY THE BAYLESS REPRESENTATIVES LISTED ON PAGE ONE. OTHERWISE, BEFORE ANY CHANGES ARE MADE TO THE PROCEDURE, CHANGES NEED TO BE CLEARED WITH ONE OF THE PEOPLE ON THE CONTACT LIST.**

**DETAILED PROCEDURE:**

1. Move and rig up workover rig.
2. Nipple down wellhead and nipple up BOP.
3. Pick up Composite Bridge Plug and TIH
4. Set CBP at +/- 1,980'
5. Release from CBP and circulate hole.
6. MIRU Halliburton Cementers
7. Pump 5 bbl of Halliburton Fine Cement.
8. Displace with 7 bbl of water to set plug.
9. Pull 6 stands of tubing out of cement.
10. Circulate hole 45 bbls (2x capacity) to insure tubing is clean.
11. Pressure tubing and casing to 600 psi to begin squeeze.
12. Allow pressure to bleed to 500 psi.
13. Pressure to 600 psi.
14. Continue until cement is set. Record Volumes squeezed.
15. Stand back Tubing.
16. WOC 24 hours.
17. MIRU power Swivel.
18. PU 3 7/8" cement bit.
19. TIH and tag cement top
20. Pressure test tubing casing annulus to 500 psi. Observe pressure for 15 minutes.
21. Drill out cement and CBP.
22. Tag RTB and Circulate hole.
23. Pressure test tubing and casing to 500 psi. Record pressure for 15 minutes.

24. Report test results to Bayless office. 505-326-2659.
25. TOOH with Tubing.
26. PU Retrieving head and TIH to RBP @ 6,300 ft.
27. Latch RBP and TOOH. Lay Down RBP. Return to Halliburton.
28. TIH with Tubing and SN.
29. Tag Fill on CIBP @ 6,410 ft.
30. Lay down one joint and hang off tubing.
31. Nipple down BOP and Nipple up WH.