

# Exploration and Production

## Water Isolation Procedure



Wellname: **PA 514-16**  
Location: **NENE 20 6S 95W**  
Field: **North Parachute**  
API: **05-045-18104**

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Surface Casing:	9-5/8" H-40 32.3# set @ 1052.7'
Production Casing:	4-1/2" E-80 11.6# set @ 9884.8'
Tubing:	2-3/8" tbg @ 8308.3'
MV 4 Completions	7,602'-7,778'
MV 3 Completions	8,053'-8,282'
MV 2 Completions	8,313'-8,502'
MV 1 Completions:	8,551'-8,768'
Cameo Completions:	9,050'-9,334'
Lower Cameo Completions:	9,409'-9,659'
TOC/Correlate Logs:	4960' / Baker Atlas CBL 11/14/2010

Purpose: Isolate water producing zone

### **Proposed Procedure:**

- 1 MIRU service rig
- 2 Unland 2-3/8" tubing, tag, POOH w/ 2-3/8" tbg
- 3 RU wireline and RIH with RBP
- 4 Set RBP at ~9372' (above Lower Cameo Completion at 9409'-9659' and below Cameo Completion at 9051')
- 5 RIH with 2-3/8" tubing, land at 9100'
- 6 Swab on well with rig (want to see if well will run with Lower Cameo isolated)
- 7 If well runs with Lower Cameo isolated:
  - A POOH with tubing
  - B RU wireline and RIH to retrieve plug
  - C RIH with CIBP and set at 9372' (above Lower Cameo Completion at 9409'-9659')
  - D Using bailer, set 2 sacks cement on top of CIBP
  - E POOH and RD wireline
  - F RIH with tbg and land at 9100'
- 8 If well does not run with Lower Cameo isolated:
  - A POOH with tubing
  - B RU wireline, RIH to retrieve plug, Reset plug at 8843'
  - C RIH with 2-3/8" tubing, land at 8590'
  - D Swab on well with rig (want to see if well will run with Lower Cameo and Cameo isolated)
  - E If well comes around, repeat steps 7A-7F (Exception: Set CIBP at 8843' and land at 8590')
- 9 If well still will not come around after Lower Cameo and Cameo are isolated:
- 10 POOH with tubing
- 11 RU wireline and RIH to retrieve plug
- 12 Begin water hunt by isolating the zones with a RBP and packer as follows to determine the high water producing zone:
  - A Lower Cameo
  - B Cameo
  - C MV 1
  - D MV 2

**E** MV 3

**F** MV 4

**13** Farther remediation efforts will be evaluated after determining the high water producing zones

**14** Submit subsequent report



Revision Date:  
5/19/2015

9050'-9334')

659' and below Cameo Completion at 9050'-9334')

isolation zone isolated)  
and reland tubing at 9100')

isolation zones: