



## Water Shut Off Procedure

Wellname: PA 512-11  
Date: 7/23/2013  
Field: Parachute

Prepared By: Jennifer Schrant  
Cell phone: (303) 885-7752

Purpose: Reduce water production rate by squeezing off high water producing zones

### Well Information:

|                      |                       |
|----------------------|-----------------------|
| API Number:          | 05-045-2182           |
| Production Casing:   | 4-1/2" 11.6# E-80     |
| Shoe Depth:          | 7,813 ft              |
| Float Collar Depth   | 7,786.5 ft            |
| Surface Casing Depth | 901 ft                |
| Top of Mesaverde:    | 4,414 ft              |
| Top of Gas:          | 5,537 ft              |
| Correlate Log:       | Baker CBL - 5/22/2013 |
| Max pressure:        | 2,500 psi             |

### Well History:

- This well was completed through the Lower Cameo stage in July 2013
- The well was completed in July 2013
- The well was turned over to production 7/1/2013
- The well was turned back over to flowback on 7/9/2013 due to excess water production
- The well was swab tested to identify the high water producing zones

### Proposed Procedure:

- 1 RIH and set in RBP at 6,060 ft  
RIH and set cement retainer at 5,742 ft

MIRU cement crew  
RIH with tubing and sting into retainer  
Pump Injection Test: 2, 3, & 4 bpm  
Get ISIP, 5, 10, and 15 min shut in pressures

Pump 75 sacks of 15.8 ppg cement and 50 sacks 17 ppg tail cement  
Sting out of retainer and reverse clean tubing  
POOH with tubing  
Allow cement to set for 24 hours

RIH with bit and tubing and drill out cement retainer and cement to 6,060 ft  
Pressure test squeezed perfs to 1000 psi  
If perfs pressure test then continue on, if not call Jennifer Schrant (303-885-7752)

POOH with tubing and PU retrieving tool  
RIH with retrieving tool and tubing and POOH with RPB

RIH with tubing and swab test well  
Record water production and send to Jennifer

RIH and set cement retainer at 6045 ft

RIH with tubing and sting into retainer  
Pump Injection Test  
Get ISIP, 5, 10, and 15 min shut in pressures

Pump 75 sacks of 15.8 ppg cement and 50 sacks 17 ppg tail cement  
Sting out of retainer and reverse clean tubing  
POOH with tubing  
Allow cement to set for 24 hours

RIH with bit and tubing and drill out cement retainer and cement to 6,045 ft  
Pressure test squeezed perfs to 1000 psi  
If perfs pressure test then continue on, if not call Jennifer Schrant (303-885-7752)

POOH with tubing and PU retrieving tool  
RIH with retrieving tool and tubing and POOH with RPB

RIH with tubing and swab test well  
Record water production and send to Jennifer  
If water production has been reduced turn well over to production