

Crew: B. Rappe and M. Shendo  
 Weather: Upper 70's, cloudy, and  
~~Stt~~ hot.

PR 09/23/14

Equipment: See page 14; Bimbae  
 Straddle packer from LANL,  
 TAM packer; Nitrogen tanks.

Activities: Sample borehole  
 54-24399.

0600 Fuel field truck and load  
 equipment.

0735 M. Shendo calibrates  
 MultiRAE 2604. See call logs.

0710 Call to T. McFarland  
 that we may be late to TA-54.  
 0736 Call to driller D. Toney  
 that we may be late to dog  
 sniff station.

0815 meet Precision at dog  
 sniffers. Escort to TA-54.

0846 onsite at TA-54. P. Bauman  
 and T. McFarland onsite.

0915 onsite at MDA L. Flatbed  
 trailer blocking access to  
 54-24399. Site personnel

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preparing to move flatbed.

0923 Drill rig inspection forms  
 handed to Tim Rose (Precision  
 Helper)

0945 Drill rig set up over  
 54-24399.

0958 Single packer attached  
 to wireline.

Packer will be set at 568 ft  
 bgs (bottom of casing)  
 Sample interval will be  
 568 ft - 608 ft bgs.

Total length of  
 packer = 4 ft 3 1/2 in.

1024 Bump check on packer.  
 Everything in working order

1104 Single Tam packer set at  
 568 ft. Setting up to inflate  
 packer and begin purge.  
 Purge calculated to 60.5 min.

1112 Packer inflated to 300 psi  
 according to Tam International  
 Chart.

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1114 Set up to purge 54-24399.  
Gast Pump SN D105150116

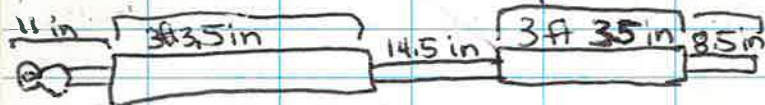
1247 Purge complete. Collect  
Sample at 54-24399 from  
568 ft - 608 ft bgs.

CH = 0% CO<sub>2</sub> = 700 ppm O<sub>2</sub> = 20.9% VOC = 0.0 ppm

Collect FD = MD54-14-85504

Collect FB = MD54-14-85523

1332 Deflate packer and begin  
removing packer system to  
install straddle packer.



1412 Tam packer out of hole.  
Sample line and inflation line  
will be reused for Bimbar  
Straddle packer. Cable being  
removed to attach to straddle  
packer.

1414 Attach Bimbar packer to  
cable. Bump test good.

1453 Straddle packer downhole  
to 568 ft bgs. Set to sample

for 09/23/2014

568 ft - 569 ft bgs. Packer  
inflated to 140 psi per Bimbar  
chart for size of packer.

1500 Begin 10 min purge

1512 Collect sample at 1 ft  
interval of 568 ft - 569 ft.

CH = 0% CO<sub>2</sub> = 2705 ppm O<sub>2</sub> = 20.9% VOC = 0.6 ppm

1621 Straddle packer out of  
open borehole. Tear down  
equipment and move rig  
from borehole.

1640 Sign out at ~~MDAL~~ TA-54.  
call to K. Greene that samples  
will be delivered after 1700.

1700 Relinquish samples to  
SMO.

1735 Daily sent to STR.

### Summary

- Single packer sample at  
568 ft - 608 ft
- Straddle packer sample  
at 568 ft - 569 ft

| Well     | Port Depth<br>(ft) | Analysis | Sample ID     | Notes |
|----------|--------------------|----------|---------------|-------|
| 54-24399 | 568-608            | VOC      | MD54-14-85463 |       |
|          | 568-608            | VOC      | MD54-14-85504 | FD    |
|          | 568-608            | VOC      | MD54-14-85523 | FB    |
|          | 568-569            | VOC      | MD54-14-87493 |       |