Location MDA L Date 05/04/2015

Project / Client VAPOR SAMPLING
54-24399

Crew: BRappe, MShendo, JJordan
D. McDonald (Boart Longyear)
Equipment: see page 10; plus:
Pulstar Drill Rig; GAST Pump
SN DIOJ150116; TAM Packer,
BIMBAR STRADDLE PACKER,
Nitrogen tanks, Regulator
from TA-64.
~~0700 MShendo Calibrat~~ For 05/04/2015
Weather: High 68°F, 40% TStorms
Activities: Sample open borehole
54-24399.
0600 BRappe gathers equipment,
charges battery and MultiRae,
preps paperwork, emails
0700 MShendo calibrates
MultiRae #4255-see logs.
0730 onsite at TA-64. With
Mark BIBAULT-Engineer
with LANL to approve pressure
system. M. Bibault request
nitrogen set to 25psi. He requests
we go to 300psi. Crews advised
against this when outside

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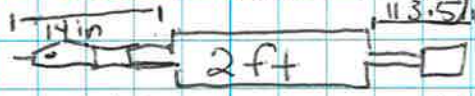
Project / Client VAPOR SAMPLING
54-24399

of Borehole. Tried explaining
it's a simple leak test. OK
with single TAM packer.
Connect BIMBAR Straddle
packer for leak test. Set at
50 psi. Packers inflated.
M. Bibault gives OK. Off to
TA-54.
0815 onsite at Ops to sign in.
0838 Set up drill Rig over
borehole. Sign tailgate.
Set up equipment:
0843 Rig up - fit cable (wireline)
to fit small TAM single packer



Packer will be set at 568 ft bgs
(bottom of casing) Sample
interval will be 568 ft (bgs) - 608 ft
Total length of packer = 4' 3.5" (bgs)
0857 attach packer to wireline.
0910 Electrical safety briefing
by STR.
0912 Begin placing packer
For 05/04/2015

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Project / Client VAPOR SAMPLING
54-24399

down borehole 54-24399.
0940 Packer set at 568 ft bgs.
Connect pump to sample line.
Connect all pressure safety equipment. Purge calculated to 60.5 minutes. Pressure set to 300 psi per TAM guidelines.
0958 start pump. Begin purge of 60.5 Min.
1004 T. McFarland and S Rogers offsite. Continue to purge.
1110 Sample 568 ft bgs - 569 ft bgs.
CH4 = 0% CO2 = 530 ppm O2 = 20.9% VOC = 0.0 ppm
1115 Remove Single Packer from well.
1140 Packer out of well. Disassemble packer and wire line. Prepare to ~~Come~~ Connect straddle packer.
1149 Begin to lower straddle packer.
1213 Packer inside well. Set nitrogen to 140 psi.

PAR 05/04/2015

Location MDA L Date 05/04/2015

Project / Client VAPOR SAMPLING
54-24399

1217 Begin purge for sample interval 568 ft - 569 ft bgs. Top of straddle packer set at 568 ft bgs.
1229 Sample 568 ft - 569 ft
CH4 = 0% CO2 = 1370 ppm O2 = 20.9% VOC = 0.0 ppm
Summa # 1054-1
FD = MD54-15-93305
FB = MD54-15-93314
1239 Begin Removing Straddle packer from well.
1308 Straddle packer out of well. Pack up field equipment.
1315 Return Radio to TA-64.
1350 Relinquish samples to SMO.
1400 Unload Van and truck. Store packers in conner-TPMC
1430 Emails, scans, daily field report.
1500 Daily field Report sent to LANL.
1510 Logbook close out.

PAR 05/04/2015

Location MDA L Date 05/04/2015

Project / Client VAPOR SAMPLING
54-24399

Summary

BR 05/04/2015

Daily Field Summary Report
MDA L Vapor Sampling

Date: 05/04/2015 Crew onsite from 0730-1330

Crew: B. Rappe, M. Shendo, J. Jordan, and D. McDonald (Boart Longyear)

Activities completed: The following samples were relinquished to the SMO:

Well	Port Depth (ft)	Analysis	Sample ID	Notes
54-24399	568-608	VOC	MD54-15-93223	
	568-569	VOC	MD54-15-97299	
	568-569 FD	VOC	MD54-15-93314	
	568-569 FB	VOC	MD54-15-93305	

Plans for Tuesday: Vapor sampling at location 54-02021 (outside fence at MDA L).

Visitors: Sam Rogers, Tracy McFarland, and Mark Bibeault.

Notes: Prior to field activities, everyone met at TA-64 for pressure system approval by Mark Bibeault.

*STR, Tracy McFarland, gave an electrical safety briefing. Crews were reminded to stay focused on task!

*See purge forms for purge volumes and parameter information.

BR 05/04/2015

Location MDA L Date 05-05-2015

Project / Client VAPOR SAMPLING
54-02021

Crew: BRappe and MShendo
Weather: Upper 50's - RAIN
Equipment: See page 10
Activities: Vapor Sampling at 54-02021

0600 Load van, paperwork, emails
0700 move van to building
0730 MShendo calibrates Multirae #4255 - see cal logs
0745 TA-64 radio.
0800 Sign in at TA-54 OPS.
0810 Health and Safety tailgate.
0827 Begin purge at Port 1 (20ft)
0839 Sample Port 1
CH4= 0% CO2=2000 ppm O2=20.9% VOC=0.2 ppm
Summa # 9444
0844 Begin purge on Port 2 (40ft)
0856 Sample port 2
CH4= 0% CO2=2010 ppm O2=20.9% VOC=0.3 ppm
Summa # 35271
* Partially Plugged *

BR 05/05/2015