## Appendix E.

Field Records in DOE/Sandia Reports for Drilling the Boreholes for Monitoirng Wells MWL-BW2, MWL-MW7, MWL-MW8 and MWL-MW9.

The Field Records for Monitoring Well MWL-BW2 are from the following DOE/Sandia Report:

Griffith, Stacy, April 2008. DOE/Sandia Summary Report for Mixed Waste Landfill Monitoring Well Plug and Abandonment and Installation: Decommissioning of Groundwater Monitoring Well MWL-BW1 and Installation of Groundwater Monitoring Well MWL-BW2. Sandia National Laboratories/New Mexico. http://www.nmenv.state.nm.us/hwb/documents/Summary\_Rpt\_MWL\_MW\_PandA\_Install-Decom\_GW\_Mon\_Well\_MWL-BW1\_Install\_GW\_Mon\_Well\_MWL-BW2\_4-200.pdf

The Field Records for Monitoring Well MWL-MW7, MWL-MW8 and MWL-MW9 are from the following DOE/Sandia Report:

Sandia National Laboratories/New Mexico Environmental Restoration Project, September 2008. DOE/Sandia Summary Report for Mixed Waste Landfill Monitoring Well Plug and Abandonment and Installation: Decommissioning of Groundwater Monitoring Wells MWL-MW1, -MW2 and -MW3, and Installation of Groundwater Monitoring Well MWL-MW7, -MW8 and -MW9. Sandia National Laboratories/New Mexico.

ftp://ftp.nmenv.state.nm.us/hwbdocs/HWB/snl/MWLDrillingSummaryReport\_Final\_Sept0 8.pdf

Monitoring Well MWL-BW2 – Field Records for Drilling the Borehole and Installing the Monitoring Well from Pages 174-179 in Attachment B in the DOE/Sandia Report.

Well MWL-BW2 - page 1 of 6

174	
- I-15-08 Twoday - Task: MWL Dilling	
- Weather; Cold, clear	
Personnel: SRG-SNYGRAM  Mark Green WOC  Richard Bare	
Richard Bare	
- 0700: Personnel on-site. Conduct H+S integs.	
- 0732 Progre to resume drilling @ 300' 220' of casing	
$0.740$ ; casing 1x $20^{\circ} \rightarrow 320$ $200^{\circ}$	
-0802: 2x20'->340' 180' -0818': 3x20'->360' 160'	
$-0840$ : $4\times20' \rightarrow 380'$ $140'$ $-0902$ : $5\times20' \rightarrow 400'$ $120'$	
10917: 6x20' ->420' 100'	-
Mark Green - CT41780	
0935: 7.X20' -> 440' 80'	_
0950: 8X20' ->460' 60'	
1000: 10x20' >500' 20' + 10' on truck 1100: Cyclone of tube blocked after encountering meterial	
below WT.	

. 175
1140; Add 10' casing > total 510'
1210: Total Depth ~ 509', Added ~ 100-150 gallons water to clean out. Will evacuate all added
water.
1315; All drill stem out of hole.
1330: Drill crew prep well materials. SRG offsite to FRMQ
1400: Skelly SRG of Jet West Goodysical Services on site.
Newfron probe of resistivity logging of well w/n
drive casing (Jet West personnel- Al Harderson
1700: Jet west faished Skelly offsite
1720: Secure site, SRG w/ JetWest to Eubant Gate.
The state of the s

176	
1-16-08 Wednesday	
Task: MWL. Drilling	~
- Weather: Very cold, windy.	
Personnel: SRG SNL/GRAM	
Mark Green	
Richard Base / WOC	
- Casey Houth -	
- 0645. SRG @ BRMO mob to site.	
- 0700: At personal on site. Conduct H+5 m/g	. \
- 0740: Water level 485 bgs. (measurement 489-3.8 stick	4)_
We has not reached auticipated ~ 472' logs.	
- 0800 SKg offsite to ERMO to discus situation.	. —
- 0930: Call Mark Green - trip drill stem back in hole	
- d drill an additional 10:	
- 1000: 526 on ste drill crow troping into bochole	
1030: Mike Skelly on site. Begin drilling @ 509	
grave layer only few inches thick. Buck into	
- Some grand but w/ day.	
- 1120: Not much difference in Athologies -> information	-1
sands, clay, very few gravel leases. TD = 519' logs.	
1145: Trip out drill stem.	-
- 1220' All drill stan out	
1300, Sing 24-54E to EDIO.	. —
A CONTRACTOR OF THE PARTY OF TH	
	.3

	177
	2.41
1-17-08 Thursday	
Task: MWL Drilling	
Westler: Very very cold > 1°	if w/ wind chill
Pasonael: SEG /SNL/GR	ZAM
Mark Green	
	) woc
Richard Bure	
0030: SRG @ ERMO MO	b to sit
Olossi Sky Green 4 Heath	on site. Very cdc conditions
0720: Conduct 14+5	mags.
	rel. 502.3' - 38' stick up = 498.5
Brownle struck	open, water level has not
come up to	expected level (~472')
There is rac	expected level (~472')
typeet ~ 47' of	- world is burchole.
0945: Mike Shelly called	Will Moats (NMED) to discuss
- situation! Mosts	agreed to set the well as
	anticipated water land of
1000: Bour to bild	well. Brand new tape nessure for tog.
1030: Add Volcky course	chips to bottom of hole
50 15 bags -> H	<u> </u>
- pulled 10' chainy	left in hole 510
added plus to 50°	1.2' bgs ap, sump, 30' 0.010 slot screen of screen of at top
Build Wall = 5	ap, sump, 20 0.010 slot screen
centralizer & base	of screen 4 at top
	·

178 1-17-08 cm 1400 Set well -> 504.66 of PK set bottom (7.66' of stick up w/ addition)
1420: Start adding 20-40 sand 5016 bags HTHI Dinging and up to 462 (need ~ 37 bags 20-40 send ... Clust mosite to deliver more 20-40 sound. 1440; Pull casing 1 x10' -> 500 in hole 1500: pull casing 1x80 -> 480' in hole add sund @ ~ 489' A HT HT 1515! pull 1 x 20 4/60' in hole add sand to ~4169' Litt Litt tag sand @ 400' sunb the well to settle sand around a screen. Used 40 bags 2040 suc (40-60 sand is no longer available) 100 lb bags > 11 (2 total) tag top of 60 sand @ 456 pull 1 x 20' casing (440' in hole) 1630: Adding volday chips 50 15. bags HHII (cale. 9, use] pull 1 x 10' assing (430' in hole) chips @ 438' will hydrate & let sit overnight 1715; 1730:

1-18-08 Friday
Taski MWL Drilling. Weather: Cold & clear
Personnel! SRG SNL/GRAM
Marte Green Richard Bare ) WDC
Casey Heath
0700: SRG @ ERMO, mob to site 0750: All personnel @ site Conduct H+5 mtgs.
0754' Adding Volclay chips to 426' need 4 > 1111 used
0830: Hydrate last 10' of drips w/ 140 gallons 0850: Pull 1x20' casing (410' in hole)
- Well Construction Digram
Top 1st grout 1'fl 10'305' XXX Benderite Grout #
Top Volcky Plus 426 121
Top 60 sand 456' Volcky Chip Flug to
Top princy and 461.5
Water Level 4725 - 3 0.010 slot 'so' Park  Water Level 4725 - 3 0.010 slot 'so' Park  48.5
Bottom of well 502' 5' Sunp.
510' SIG' WINNING Chip Plug &

## Monitoring Well MWL-MW7 – Field Records for Drilling the Borehole on Pages 7-8 in Appendix C of the DOE/Sandia Report.

Well MWL-MW7 – page 1 of 2.

	mwc-mw7
	10:1011
-	Michael Sheller 28 april 08
-	0713 at ER MO, Send email to Mick Peterson (Totaled)
-	Michael Gulle 28 april 08 0715 DT ER MO Send emil to Wick Peterson (Tet Work) Ve: Health and Softy documents. Pack gear wead to gite
	0735 Ousite new is warning up equipment and
	neparing to dail. Tailgate Sopler frieting
	0735 Ousite crew is warning up equipment and preparing to full. Tailgate Saply friefing 0753 Begin drilling 200 staft w/ 95/8 dive
$\perp$	casing
-	0808 Bit at ~ 217 bgs, add another joint.
_	0829 But at ~ 237 bys, add a notice joint.
	0856 Bit at ~ 757 bgs, add another joint,
-	0912 But at ~ 277' bgs, add another joint;
-	Honey dipper on site to service port-o-let.
-	0924 Talked to Schoffeld. Facilities crew is
-	supposed to do some dut work on the bern.
	0936 Bit @ ~ 297 bgs, add another joint.
$\dashv$	1002 Bet @ 13/7 bys add another joint:
$\neg$	Schopeld on site 'n/ bird survey. Road
	DZZ Bit @ 1337 bgs, add another joint.
	1043 Bit @ 2 357 bas add another joint.
	1043 Bit @ ~ 357 bas, add another joint.
	11/2 Stacy briffth onsite, Road onew working berry.
-	1125 Frank Caupper ousite
_	1137 Bit @ n 297 Ags, add another joint. Stacy
	Mads offsee.
-	1202 But @ 1/2 417 bgs, add another joint.
$\dashv$	1211 Take hunch treak.
	1243 Fine up ria. Road crew back on site.
-	1257 154 C -4511 Das, and another joint.
	1323 Bolla 2 45/ Bgs and another four turney
	1759 Bit @ 437 bgs, add another joint. 1325 Bit @ 1457 bgs add another joint. Cullings are down to wet, sticking world discharge line and enclare. Not adding water (air only). 1404 Distrary line cloqued at cyclone. Dis - connect and clean out cuttings. 1427 Bit @ 1477 bgs, add another joint. Pe-
	1404 Derkane Clare Cloqued At well all Din -
	cornect and clear out cuttinas.
,	427 Bit@ ~477 bas add another joint Re-
	attach discharge line to cyclond.
- 1	q /

	MWL-MW7
8	nwe-mw
	1456 at 1495 Jt 695, discharg line is
	sugged due to very wet cultings. Descound
	and deen out
	1505 Begin tripping out will stem and bit.
	Stough hall off during trip. Tag to D of Blough
-	out dul - no water at top of Scripte Trip dill steel and but back in to remove sough.
	diell steel and but back in the remove stough.
	1640 clean out slough; add a 100 gallons of water to clean out drill stem (direct casing; slow
_	will wrater out of drive casina.
	1653 Trip out drill stem and bit; pipe statuck
	1 1 1
	Readys ris for the night.  1721 Finish tripping dill stem and bit WDC Crew  Readys ris for the night.  1735 Unload over at Failnapte ERMO  1802 Leave ERMO for the night.
	1802 leave ERMO for the night.
_	

## Monitoring Well MWL-MW8 – Field Records for Drilling the Borehole on Pages 20-21 in Appendix C of the DOE/Sandia Report.

Well MWL-MW8 – page 1 of 2.

Driller @ MWI : MWI - MWB  Therenare! S. Grithth  H. Leon Y WDC  Whother: Parthy Glossly expected high 80°s of breezey  Whother: Parthy Glossly expected high 80°s of breezey  Driller @ 180° high 80°s of breezey  Driller @ 180° high 180°s of breezey  Driller & 180° host 180° high 160°s		
work: Drillia @ MWI : MWI-MW8  Horomel: S. Griffeld  H. Leon > WOK  I Leon > WOK  I Leon > WOK  I Leon > Wob to site. Conduct  to lighte mto w/ Leon brothers  O700 Resume drilline @ 380 bgs. Mark Green  Offisite for Orled. Plan to drill to ~535 bgs.  O845 Add 20' > 420' total  O920 Add 20' > 440' clean Sand  Sample @ ~ 440' clean Sand  Sand & Work of Wester  Sample @ ~ 440' clean Sand  Sand & Work of Wester  Sample @ ~ 440' clean Sand  Sand & Work of Wester  Sand & Wester  Sand	20	
Westernel: S. Griffeld  H. Leon J. WOK  Theory Look  Wester: Partly Glosdy, expected high 80°s of breezey  DEST SIRG & ERMOS. Mob to site. Conduct  to lighte mity w/ Leon prothers  DEST Add 20° > 400° total  DEST Add 20° > 420° total  OF 30° ~ 428° sound of ground of charles  DEST Add 20° > 440° total  DEST ADD CONTROL OF TOTAL  Soundle & ~ 440° clean Sound		or may 08
Ulbertice: Partly Glowly expected high 80°s of breezes  DISO: Siles & ERMOS. Mode to site. Conduct  triligate into W/ Lean mothers  O700. Resource drilling @ 380° hgs. Much Green  Offisite for Gilel. Plan to drill to ~535° hgs.  O845 Add 20° > 400° total  O940 Add 20° > 420° total  O920 Add 20° > 440° total  O930 ~ 422° sourch of ground possible 'ARLY B' with  O945 ~ 435 well-roomded ground of clay Osalo.  Add 20° > 440° dean sound  Sample @ ~ 440° clean sound  Sample @ ~ 440° clean sound  Sample @ ~ 440° dean sound  Sample @ ~		Tusk: Drilling @ MWL: MWL-MW8
Leon y two to the street of the 80°s of breezes when the street of the s		Personnel: 5. Griffly
DESTINATION OF A STATE CONDUCT  DESTINATION OF A STATE OF		H. Leon Stuff
DESTRUCTION OF STREET CONDUCT  DESTRUCTION OF STREET CONDUCT  DESTRUCTION OF STREET CONDUCT  DESTRUCTION OF STREET O		Tileon
0700. Resome drilling @ 380 bys Much Green  Offisite for Old. Plan to drill to ~535 bys  O845 Add 200 > 420 total  O845 Add 200 > 420 total  O820 Add 200 > 440 total  O930 ~ 428' sourt of ground possible 'ARLY B' unit.  O945 ~ 435' well-roonded ground of clay balls  Scally on site  Sample @ ~ 440' clean sound  Sample @ ~ 450' stally sound grounds collect  No 400' Stally sound for this well will stated  To set well as possous in work plan  World Plan states access patental  World Plan states access patental  World Plan states  No 50' - 460' bys cyclone line Plugs, cuttings  Moist (sithy sound), some the 1475  Oxider of the plugger  Oxider cyclone of the resource drilling.		Weather: Partly Glowdy, expected high 80°s of breezey
0700. Resome drilling @ 380 bys. Much Green  off site for Old. Plan to drill to ~535 bys.  0845 Add 200 -> 4200 total  0845 Add 200 -> 4200 total  0820 Add 200 -> 4400 total  0830 ~428 sourt of ground possible 'ARLY B' usit.  0845 ~435 well-roomded ground of clay balls.  Skelly on site  Sample @ ~4400 clean sound  Sample @ ~4500 corect whater toble  In this next interval (4600-4800)  Will modes (NMEII) this morning concerning  Setting the sound of this well will stated  to set well as possessed in work plan.  Worth Plan states are plage, cultures  Most (sith sound), some the 2475  Mo	0630.	ERG @ ERMOs Mob to site Conduct
DECO Add 20° > 420° total  MYDS' silts of due bein to plug cyclore line  OP20 Add 20° > 440° total  OP30 ~ 428° sound of ground possible 'ARG B' unit.  OPUS. ~ 432 well roomded ground of clay balls.  Add 20° > 160° total  Sample & washed well roomded grounds collect  Sample & washed well roomded grounds collect  N 435°  IO10' Add 20' > 480' expect water toble  in this new interval (460°-480°)  Skelly offsite Skelly's discussion w/  Will mode (NMEN) this morning concerning  Setting the screen for this well will stated  to set well as proposed in work plans  Whot's Plan stated screen interval  Not's Plan stated screen interval  (460° to 500° to 500° to 600° to 600		tailante mto w/ Loop brothers
DECO Add 20° > 420° total  MYDS' silts of due bein to plug cyclore line  OP2D Add 20° > 440° total  OP3D ~ 428° sound of ground possible 'ARG B' unit.  OPUS. ~ 432 well roomded ground of clay balls.  Add 20° > 140° total  Sample & ~ 440° clean sound  No 435°  IOIO! Add 20° > 480° expect water toble  in this next interval (460° - 450°)  Skelly effects Skelly's discussion w/  Will mode (NMEI) this morning concerning  Setting the excent for this well will stated  to set well as proposed in work plans  Whom the stated excent interval  North Plan stated excent interval  (460° of 500° of 500° of 160° of 16	0700	Resine detiline @ 300 has Much Green
DEAD Add 20' > 420' total  OPED Add 20' > 440' total  DESINE on site  DEAD CHOO' total  DEAD OPED OF ADD OPED OPED  Sample @ ~ 440' clean sand  Sample @ ~ 440' clean sand  Sample @ ~ 440' clean sand  Sample @ ~ 440' expect water total  No 435'  1010' Add 20' > 480' expect water total  in this next interval (460'-480')  Skelly effects Skelly's discussion wy  Will mode (NMEI) this morning concerning  Setting the excent for this well will stated  to set well as proposed in work plans  Whom the stated excent interval  North Plan stated excent interval  North Plan stated excent interval  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the result of 1475'  Open of the plans of the plans of 1475'  Open of the plans		officity for file. Plan to drill to ~535 kgs.
0845 Add 20' > 420' total  MOS' silts of due bein to plug cyclore line  0920 Add 20' > 440' total  0930 ~ 428' sound of ground possible 'ARG B' unit.  Skelly on site  0945 ~ 435 well rounded ground of clay balls.  Add 20' > 140' clean sound  Sample & wested well rounded grounds collect  No 435'  1010' Add 20' > 480' exact water tolk  in this need interval (460'-480')  Skelly offsite Skelly's discussion w/  Will mode (NMEN) this monine concerning  Setting the serven for this well will stated  to set well as proposed in work plans  Work Plan stated screen interval  1035: ~465' bys cyclore line 2 lugs, cultures  moist (sity sound), some 150 x 475'  Oxdone of the plugged.  1100: Clear cyclore of like, resure drilling.	07000.	A-A-1 20 -2 500 TOTAL
O930 ~ 428' said of ground possible 'ARG B' unit.  Skelly on site of ground of clay balls  Add 20' > 160 total and said  Saught of worked well roughed grounds collect  ~ 435'  1010' Add 20' > 480' expect water table  in this need interval (460'-480')  Skelly offsite Skelly's discussion w/  Will mods (NME) this monite concerning  Setting the excent for this well will stated  to set well as proposed in work plan.  Work Plan status excent pare 10 12475  Moist (silly said), same 40 12475  Oxfore of the plugger.  1100: Clear oxfore of the resure drilling.	0845	Add 20' -> 420' total
O930 ~ 428' said of ground possible 'ARG B' unit.  Skelly on site of ground of clay balls  Add 20' > 160 total and roughed grounds collect  Saught of worked well roughed grounds collect  ~ 435'  1010' Add 20' > 480' expect where tollect  in this need interval (460'-480')  Skelly offsite Skelly's discussion w/  Will mode (NME) this monite concerning  Setting the excent for this well will stated  to set well as proposed in work plan.  Work Plan status excent parely work plan.  Work Plan status excent parely 1, 2, 2, 2, 4, 175  Oxfore of the plugger.  Oxfore of the plugger.  Oxfore of the plugger.		~405 silts & clas bein to she cyclone line
O930 ~ 428 sound of ground possible 'ARG B' unit.  Skelly on site  O945 ~ 435 well-roomded ground of clay balls  Add 20' > 160 total roomded ground of clay balls  Sample @ ~ 440' clean sand  For this need interval (460'-450')  Skelly offsite Skelly's discussion w/  Will mods (NME) this monite concerning  Skelly offsite Skelly's discussion w/  Will mods (NME) this monite concerning  Setting the accent for this well will stated  to set well as proposed in work plan.  Work Plan stated screen interval  Work Plan stated screen interval  Oxfore of like plugged.  Oxfore of like plugged.  Oxfore of like plugged.	0920	Add 20' -> 440' total
1010' Add 20' of 480' exact water table  in this need interval (460'-450')  Skelly offsite Skelly's discussion w/  Will mode (NMEN) this morning concerning  Setting the excent for this well will stated  to set well as proposed in work plan.  Whote Plan stated excent plans.  Whose of the excent for this well will stated  1035: 1465' bys cyclone line plugs, cultures  Moist (sith sand), some to 2475  Optione of the plugger.  1100: Clear cyclone of the resure drilling.	0930	~ 428' sourt of ground possible 'ARG B' with
1010' Add 20' 5 480 , exocat water table  Sample & 440' clean sand  Sample & 460' stable grands collect  N 435'  1010' Add 20' 5 480', exocat water table  In this new interval (460'-480')  Skelly offside Skelly's discussion w/  Will moots (NMEW) this morning concerning  Setting the sercen for this well will stated  to set well as proposed: work plans  Work Plan stated sercen interval  1035: 465' bys cyclone line Plugs, cultures  moist (sity sand), same to 475  Oplore of the plugged.  1100: Clear cyclone of the resure drilling.	- 100	Skelly on site
Sample @ ~ 440' clean sand  Sample & washed well possed grants collect  ~ 435'  1010' Add 20' > 480', exact water table  in this need interval (460'-480')  Stelly offsite Skelly's discussion w/  Will mods (NMEN) this monite concerning  Setting the serven for this well will stated  to set well as proposed in work plan.  Work Plan stated serven interval  Note Plan stated serven interval  Most servelone line plugs, cultures  Most silty sand, some to 2475  Most servelone of line plugger.  Most silty sand, some to 2475  Most servelone of line plugger.	0945	~ 435 well-coorded around of clay balls.
Sample @ ~ 440' clean sand  Sample & washed well possed grants collect  ~ 435'  1010' Add 20' > 480', exact water table  in this need interval (460'-480')  Stelly offsite Skelly's discussion w/  Will modes (NMEN) this monite concerning  Setting the serven for this well will stated  to set well as proposed in work plan.  Work Plan stated serven interval  Work Plan stated serven interval  More Plan stated serven drilling.  Moist (silty sand), same to 2475'  Add 20' > 500'		Add 20' -7 4160' total
Sample of washed well possed grands collect  N 435'  1010' Add 20' 5 480' expect water table  in this need interval (460'-480')  Skelly offsite Skelly's discussion w/  Will Mods (NMED) this monite concerning  Setting the serven for this well will stated  to set well as proposed in work plan  Note Plan stated screen interval  Note Plan stated screen interval  Note Plan stated screen interval  Mossist (sitty sand), same to 2475'  Cyclone of the pluces.  1100: Clear cyclone of the resure drilling.  Add 20' 3500'		Sande B ~ 440' clean Sand
1010' Add 20' so 480, exact water table in this next interval (460'-480') Skelly affects Skelly's discussion w/ Will Mods (NMEI) this moning concerning setting the servery for this well. Will stated to set well as proposed in work plan Work Plan stated screen interval 1035: ~405' bys cyclone line Plugs, cultures moist (sithy sand), some to 2475 Add 20' -> 500'		Sample of wasted well roughed a rame collect.
1010' Add 20' so 480, exact water table in this next interval (460'-480') Skelly affects Skelly's discussion w/ Will Mods (NMEI) this moning concerning setting the servery for this well. Will stated to set well as proposed in work plan Work Plan stated screen interval 1035: ~405' bys cyclone line Plugs, cultures moist (sithy sand), some to 2475 Add 20' -> 500'		~ 435'
Shelly offsite Shelly's discussion w/ Shelly offsite Shelly's discussion w/ Will Mods (NMEN) this manise concerning Setting the series for this well will stated to set well as proposed in work plan Hote Plan stated series interval 1035: ~465' bys cyclone line Plugs, cultures moist (silty sand), some to 2475' Optione of the plugged. 1100: Clear cyclone of the resure drilling. Add 20' ~ 500'	LOID!	Ald 20' 5 480' exact water table
Skelly affaite. Skelly's discussion w/ Will Mods (NMEI) this morning concerning setting the server for this well will stated to set well as proposed in work plan hote Plan stated server intendal hote Plan stated server intendal hote Plan stated server intendal moist (sitty sand), same to 2475  Add 20' > 500'		in this next interval (460'-480')
Setting the servery for this well will stated to set well as proposed in work plans to set well as proposed in work plans.  Note Plan stated server interval work plans.  Note Plan stated server interval are plans.  Note Plan stated server interval.  Most set (sitty sand), same to 2475  Optione of the plance.  1100: Clear optione of the resume drilling.  Add 20' > 500'		Shally offside Shelly's discussion ul
setting the servery for this well will stated to set well as proposed in work plans when stated screen interval work plans stated screen interval work by super the plans cultures moist (sithy sand), some to 1475 the moist (sithy sand), some to 1475 the Madane of the planger.  1100: Clear cyclone of the resure drilling.		WILL MORNING CONCERNING
1035: 2465' bys cyclone line Plugs, cultings moist (sithy sand), some to 2475' Oplane of the plugged. 1100: Clear cyclone of like resure drilling.		setting the series for this well will stated
1035: 2465' bys cyclone line Plugs, cultings moist (sithy sand), some to 2475' Oplane of the plugged. 1100: Clear cyclone of like resure drilling.		to set well as socosed in work olan
Moist (sity sand), some to 2475  Add 20' -> 500'		Work Plan shoting social interval
Oplane of the plugged.  1100: Clear exclone of the resure drilling.  Add 20' -> 500'	1035.	
Add 20' -> 500'		moist (sity sand), some 40 12475
Add 20' -> 500'		axlore of the discret.
Add 20' -> 500'	11001	Clear exclore of like traine drilling.
		Add 20' -> 500'
11001 DANG COM- DI 90 NOTHING MY THET TOWN	1130%	
contractors will be or-site next Mondy.		
OK ST		ORG

:	
	21
	07 May 08 const
1130'	Add 20' -> 520'
	White GM'- 505 tousiton from found
	situated to hicker to of silt
	Sile from 505-515' doil
1155	Add 20' - 520'  b/w 500' - 505' trusition from fined  silty and to higher 70 of silt  same from 505-515'  Add 20' - 7540' Final length of caseing  @ ~518' sand/grand m/ some sit -> ARG
1205	@ ~518' soud/grand w/ some sitt > ARG
	drill to ~535'
	2518'-522' ARG type send/grant.
	572-535 silty sand + clay
1220!	lotal 124th ~535 BGS
	Begin miseting water to clear out casing.
	All apadded water will be blown-out (~250 gallors)
1235:	thought a Trip out drill stem to ~ 460 hater
<del>-</del>	(about 4) + stand by for goodhysical logging
	1 1 am. Will show sol beauty in
	and before tripping out all drill stem for
	the logging.
1500.	WAC craw remain marke to work on
	stem as end of day or raise 20
	Med Com and appropriate of the same of the
	we did have in our of too aid there
	Mark Green not concorned us/ heaving sands.  Will check bottom is an of trip aid then.  SRG back for ERMO
	Han Sa
	"AUX III
<u></u>	

## Monitoring Well MWL-MW9 – Field Records for Drilling the Borehole on Pages 28 in Appendix C of the DOE/Sandia Report.

Well MWL-MW9 – page 28.

28	mwc - mwg
	Michael Bulles 14 May 08
,	Muchay Thele wale zer over
:	0641 at ERINO pick up your
	1713 but toilast solt bulle been dilling 360-391
	0757 Drive Shore @ 1 387, and pipe joint. Fine
	grained sediments sticking in discharge live
	and coclose.
	0819 Drive Shoe @ ~ 397 add pipe joint
	0841 Dull stem disconnected at bad threads,
	repair.
<u> </u>	0913 Removed bad piece of drill stem, install defenent
	piece of dull stem and drug casing.
_	0971 Resume drilling 397-417'
Ļ	1933 Down Shoe ( n 417 add pips joint, ARb ~ 4/3
<u></u>	1009 Unvi shoe & ~ 437, add pip 10int.
	1041 Drive Shoe @ 2457, dean out eyclone
-	and discharge line. Stace briffith
	1120 All to Contr
-	1128 add another joint.
-	1150 Sauple @ 468' silty sand Cyclore
<del></del>	1200 Add 20' > 500' on ria
	1220 Poor cutings return 480-500; Cyclone
	1220 Poor cuttings return 480-500; Cyclone
-	1320! Don Schofield, Berry Bitch, You Stibinski
	1345; Add 20' -> 520' m si
-	@ 505' cobbles Injecting weter to
	prevent Williams
	1410: Visitor Parote ao to watch soil-vant sindre
	Bottom 20' of borehole (~515 to 535')
	Bottom 20' of borehole (~515 to 535') cobbles, grands, some day, sould. Mark cleans
	out whe of casing blows out all water by
	will sull drill start up "20' inside casing torright
<u> </u>	and is morning can cheek for heaving salida.
	1520; SRG offsite.
-	- Colstant
7	