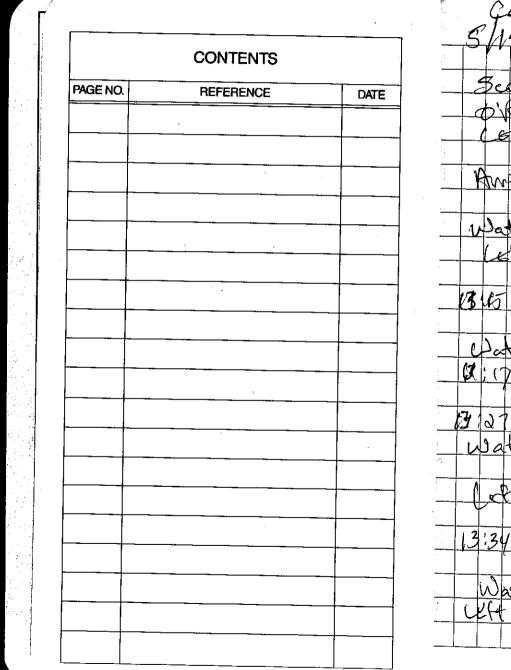
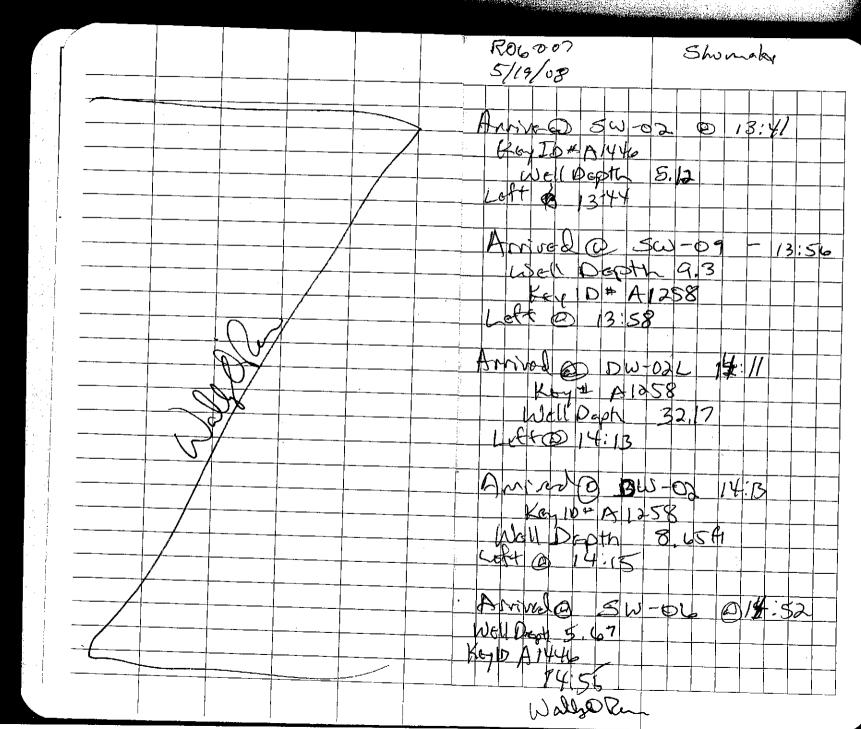
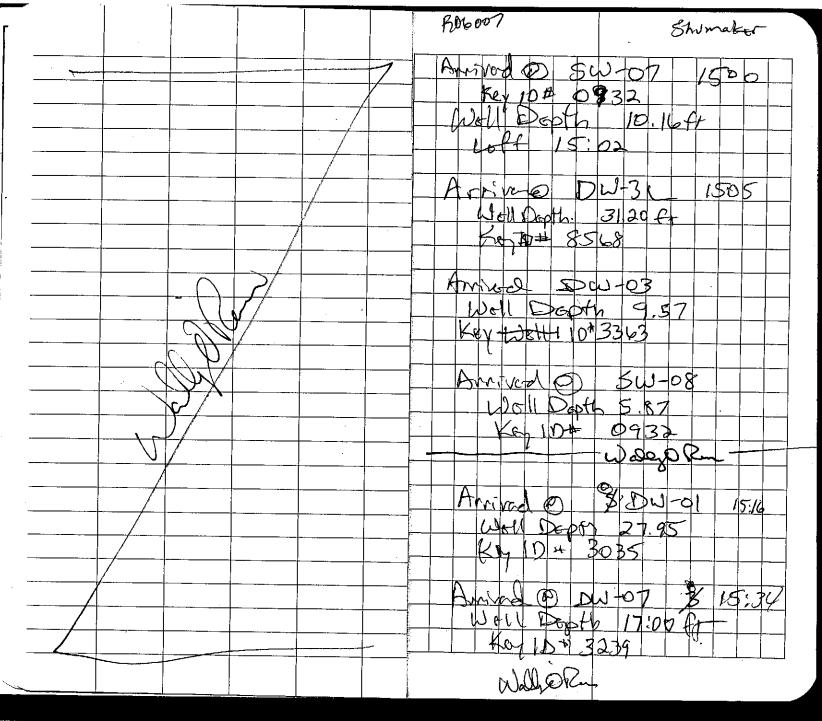
## **APPENDIX B Shumaker Log Books**

建成于生态 计标识 Shunder Navel Amumita Contract Not EP-W-074 Task Order No ROCOD ok is with By willy O'Ren The paper in this book made of 50% high grade rag stock w a WATER RESISTING surface sizing. sizing. grade rag i surface

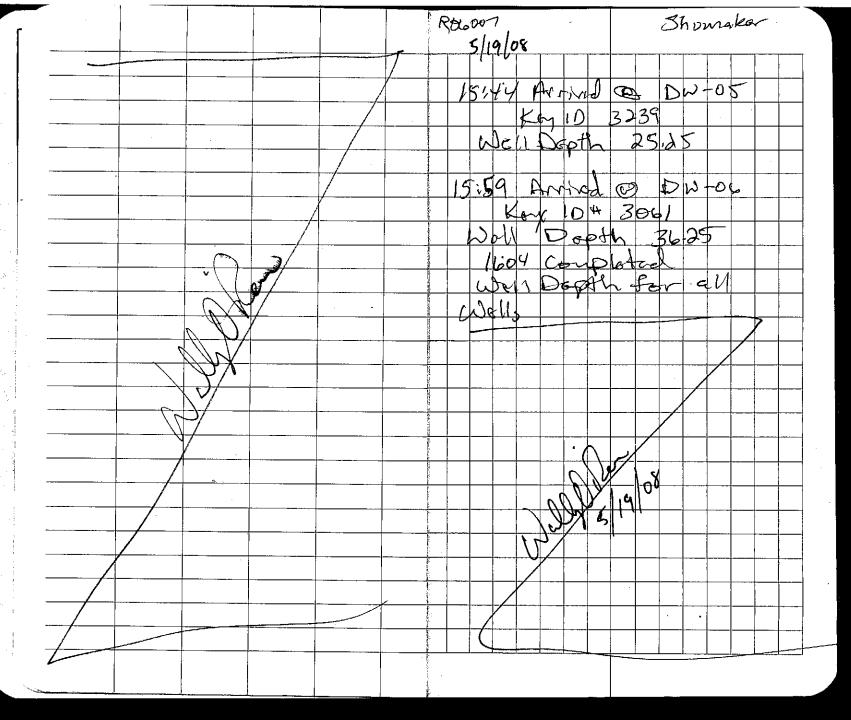


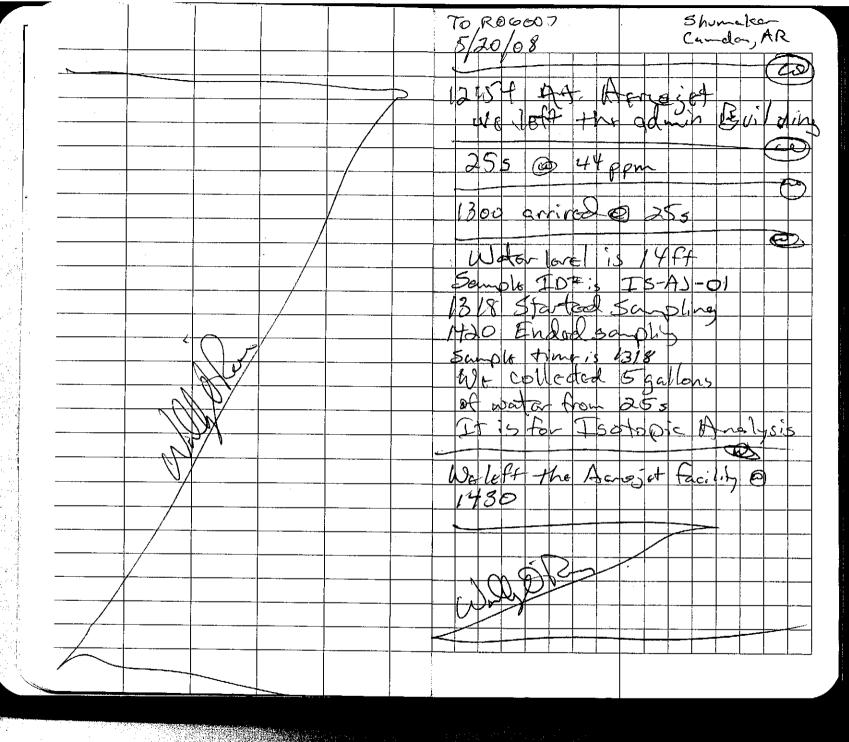
Gandon Arkansos Shumater 11.9.108 ROb007 Elliner. CIS *ზ*6' GUM m 64  $\mathbf{\hat{n}}$ SW-04 Anniveral MA- $\bigcirc$ 25 Ho #A41 522 5.83 ++ 1 Nato 6100 SW 1:02 -104 Ø Ani BUJ-Ø 40 Ast. # 141522 Ke 6.05-4 5 1 540-03  $\bigcirc$ 10.60F+ Wato ere. 5 IKel 41522 73 0 3:34 Andived 5W-0 (A) # A 1446 0 22,554 6 J¢ ĩ۵ 3 39 8

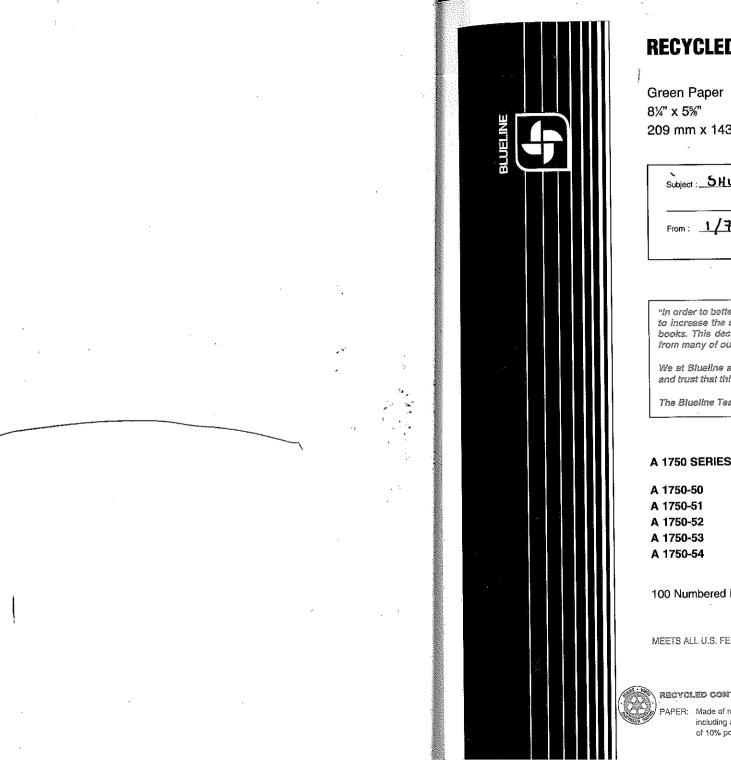




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## **RECYCLED ACCOUNT BOOKS**

209 mm x 143 mm Subject : SHUMAKER From: 1/7/08 To: "In order to better serve you, Dominion Blueline has decided to increase the spacing between the lines of its accounting books. This decision was based on numerous suggestions from many of our loyal customers. We at Blueline are committed to total customer satisfaction and trust that this modification will meet with your approval." The Blueline Team A 1750 SERIES Record Single Entry Ledger

Journal Cash **Double Entry Ledger** 

100 Numbered Pages

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RECYCLED CONTENT Made of recycled paper,



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QUESTIONS? Fax 1-800-323-7075 e-mail: blueline@bluelineinc.com http://www.bluelineinc.com

	01
	MONDAY 01/07/08 TOROLOOO2 SHUMAKEL
	ONSITE: SCOTT ELLINGER, EPA REGION & (EPA)
	WALLY OREAR, TECHLAW (TL)
	NICOLE GUYER TL
	CONDITION: @ 700. PARTLY CLOUDY. 70% HUMIDITY.
	60 F. 15 MPH WINDS 30.03 BARAMETRIC PRESSURE
704	MOBILIZE FOR SITE FOLLOWING EPA.
1.5	TE RECEIVED CALL FROM JANA DAWSON OF TL.
-705-	COLLECTION OF SAMPLES SHOULD BE IN THE FOLLOWING
	ORDER: REACHLORATES, EXPLOSIVES, 9 METALS.
+21	ARRIVE @ FIRST WELL. EPA UNLOCKING (ATTEMPTING TO UNLOCK)
(A)	GATES FOR ACCESS
3.75	PHOTO 1 : VIEW WEST OF DW3L. WELL IN GOOD CONDETION
	TE USLOGKS DW34.
	TL GOES OVER HOS ISSUES @ SITE. HOS PLAN SIGNED BY
<u></u>	the staff
	TL REPOSITIONS VEHICLE P DW3L BEGINS UNPACING
<u></u>	NECESSARY EQUIPMENT
	PHOTO 2: VIEW WEST OF TH DECONING WATER LEVEL METER
7717	+ DEPTH TO WATER 31. 81 FT. DEPTH TO WELL BOTTOM = 140. 28
_	20 20 20 57
75	F TL DECONS BLADDER PUMP
<u>67</u>	PETOTO 3: VIEW WEST OF TL DECON ING BLADDER PUNCS
82	5 EQUIPMENT BEING USED INCLUDES:
<u> </u>	5 EQUIPMENT DEMY LOLD TALLOW

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			1/7/08 TOROWOOD SHUMAKER
02	1/7/08 TORO 6002 SHUMAKER		WIL PH C T DO T TOS OFF
<u></u>	MICROPURGE BASICS - MPIO CONTROLLER MPIO - 2320		32.1 11.81 0.15 160 65 19.6 0.9 -271
	AIR COMPRESSOR - PD-1006 MODEL 148 3.4 CFM	¥	32.15 11.83 0.15 130 5.9 19.5 10 -277
	150 9001 150 PSI / 135 PSI Q8110153	1423	32.11 11.85 0.16 116 5.4 19.5 1.0 - 225.
	BLADDER PUMP - HORIBA 4-22XD 7013003	1428	32.15 11.85 -15 116 0.4 19.6 1.0 -285
934	76952 - QUOTE NUMBER FROM JANA DAWSON,	1432	32-12 11.84 0-15 110 0.3 19.6 1.0 -287
	TLA EPA ARRIVE BOCK @ SITE	1436	32-21 11-13 0.15 100 0.3 196 0.9 -290
	SETUP PUMP, BEGIN PUMPING	1445	The COLLECT   ALMBER JAR.
<u>1045</u>	PROBLEMS PUMPING. REMOVED FUMP TO TROUBLES HOST	1440	GENERATOR ON VAN DIES, COMPRESSOR DIES
······································	AR LEAKING FROM TOP OF BLADDER fump	1517	TL OPEN DW-03
1215	Fix PUMP WASHER/O-RING NOT IN CORRECT ALIGNMENT	1579.	PHOTO 4 . NEW WEST OF DW-03. GOOD CONDITION
	CAUSED AR LEAK	1525	WATER LEVEL @ 9.4 tor; WELL DEPTH = 54.8
	CONTINUING TO STABILIZE FLOW PATE		BEGAN CHING WATERRA VALVE TO SAMPLE DW-03
1249	WATER LEVEL = 32' toc. PH USING PH PAPER= HORE	1445	WL PH C T DO T TOS ORP
	FLOW RATE @ 550 ML/MIN, WATER LEVEL = 32.1' toc		13.4 6.98 32 17 0.7 20.2 0.21 -127
	14 1175 C 0.14 T 57 DO 3.4 T 19.7°C TDS 0.9 ORP-	1550	NC 6.95 34 17 0.4 20.2 0.22 -137
/339	WATER LEVEL = 32.1 toc	<u> </u>	NC 6.94 31 16 04 20.2 0.20 -132
<u> </u>	PH 11.79 CO.14 T55 D6 3.1 T 19.7 TOS 0.9 ORP-2	<u> </u>	NC 675 32 20 0.4 20.1 0.21 -136
1344	WATER LEVEL = 32.11 toc and a stand	<u>1605</u>	SAMPLES COLLECTED @ DW-03, 2LAMBER, 2 YIALS,
<u></u>	041 11.79 C 0.14 T 40 Do 28 T 19.8 TOS 0.9 OCP -2	N <u> </u>	250ML PLASTIC M/ HAOZ REPRESERVATIVE
1346	PULLED BLODDER PUMP OF AFTER IT DEASED funding. EVERYTH	q	WC PHARE TO DO TO TOS OR
	GKay	1036	32.2 11.89 0.15 85 1.6 219.9 1.0 7238
1405	WATER LEVEL = 32.1 to the stand the second the	1640	32.18 11.76 0.15 60 0.4 19.7 0.9 -245
	PH 11.90 C 0.17 T 140 DO 8.3 T 19.7 TDS 1.1 Off -20	1645	82.21 1178 0.15 57 0.6 19.7. 1.0 -291
<u>1409</u> 1	WATER LEVEL = 32.11	1649	92.14 11.79 0.15 57 0.5 19.6 0.9 -301
	24 11.81 CO.15 T 250 DO 7.5 T 19.4 TOS 09 0(P-25)		32.11 11.79 0.15 59 0.4 19.6 0.9 -308
		11_CO	

- -			Sec. 25
04	1/7/08	TORO4002	SHUMAKER
1700	COLLECTED SA	MPLES @ DW-03L	<u></u>
1733	WATER DEPTH	0 5w-8 = 8.37' +	OC The second
	WELL DEPTH	= 30 toc	A CONTRACTOR OF THE OWNER
1737	BEGAN USING	HATERRA @ SW-8	- And - And - Targe
			T TOS OR
	•		19.7 0.86 80
			19.7. 0.06 88
1			19.9 0.06 96
			20.0 0.06 100
			19.9 0.06 100
1758	TL COLLECTS S	CAMPLES @ DW-03L	INCLUDING: 2 VULLS,
		•	w/ PREPLESERVE (HNO3)
1			SITE FOR EVENING.
1		DECON & PACKS-UP	
1831	TL CLOSES G	ATE TO APPEAR CLO	SED & LEADES SITE
			TER LEVEL MEASUREMEN
		2	ON DUE TO 2" WATER
	-		AFTACHED TO DW-03L
			NER TO POWER COMPRESS
l I		IDA & DISMANTLE	
, i			AS EXTREMELY TURBIDA
		/YELLOW COLOR	
			WAS ABLE TO FONTER
1.4	Same - Cas		SLY. FLOW RATTES - PARAUE
	NERE RE-RON	1 	
a ya da ba	MERE RE-RUN	MEG 1/ These	ELSI ELSI

05TUESDAY, 01/08/08 TORO 6002 SHUMAKEK ONSITE SCOTT ELLINGER, EPA WALLY OREAR TL NICOLE GUYER The MELESSIE AND CONDITIONS . BARAMETRIC PRESSURE - 29.91 , CLOUDY, SCATTERED SHOWERS, SLIGHT WINDS, UGF 132 TL + EPA ARKIVE @ PW- 00 DW-07 732 EPA LEAVES TO OBTAIN GATE ACCESS TO DW-06 735 CALIBRATED HORIBA 744 WATER LEVEL @ DW-07= 17.6 foc 746 134.7 for = WELL DECTH 808 WATER LEVEL @ DW-07-17.58 toc 826 BEGAN PUMPING DW-OF W/ BLADDER PUMP , HORBAU-22. 848 COLLECTING SAMPLES @ DW-07 855 BEGAN CLEAN-UP & DECON. COLLECTED LESS THAN 5 gallons OF WATER FROM WELL. WL PH S C T DO T TDS ORP 831 18.9 7.73 28 26 08 18.8 0.18 -88 836 18.9 7.58 88 15 0.4 187 0.18 -110 841 19.02 7.59 28 12 0.4 18.7 0.18 -125 846 171 7.60 28 10 0.4 18.7 0.18 -131 . 943 TL + EPA APRILE @ DW-06 953 WATER LEVEL @ DW-06 = 36 6' toc 956 WELL DEPTH @ DW-06= 173 toc 1000 WATER LEVEL @ DW-06= 36.66 toc - Min Day 1/1/10

and the second se			
06			. 07
	01/8/08 TOROGOOD SHUMAKER		1/8/08 TOROLOOD SHUMKER
1028	BEGAN PUMPING DW-DG WITH BLADDER POMP, MID CONTROL	1646	TL AKRIVES @ SWID.
	AND HORIBA SETUP	1654	WATER LENEL @ SWID = 5.43' for
	COLLECTING SAMPLES @ DW-06 ~4 gollar Hokm		WELL DEPTH @ SWID = 28.85 for
1124	LEADING DW-OG FOR ICE 9 FEDEX SHIPMENT OF COOLER	1705	BEGAN RUMPING W/WATERRA VALVE
52 	WI PH C T TO T TOS URP		WL PH ( T DO T TOS ORP 4.6 4.88 13 490 3.2 14.9 0.09 219
<u>    103(p    </u>	36.8 6.31 21 36 1.0 13.6 0.13 -37	1716	6.7 4.91 15 -5 2.8 17.0 0.09 222
/041	36.89 4.23 20 13 1.0 18.6 0.13 -37	1721	6.85 4.91 13 -5 2.7 17.0 0.09 232
1546	36.9 6.23 19 1 0.7 18.6 0.13 40	1726	6.84 4.92 13 -5 2.6 17.2 0.08 233
1050	36.89 6.27 19 0 0.7 18.6 0.12 -41	1730_	TL COLLECTS SAMPLES @ SWID .
	36.9 6.29 19 0 0.6 18.6 0.12 -44	1747	TL+ EPA LEANE STRE
1304	TL SAIPS IST COOLER. VIA FEDEY CONTRAINING BOTTLES	* 1505	TE ADJUSTED MID CONTROLLER IN AN ATTEMPT TO
	FROM 3 WELL LOLOTIONS		SLOWDOWN THE WATER DRAWDOWN AFTER ADJOSTMENTS
<u> </u>	TL + ELA ARSIVE @ DW-05		WATER CONTINUED TO DRAWDOWN. TI COLLECTED SAMPLE
<u>1416</u>	WATER LEDEL @ DW-05 = 25.55 to2		BEFORE TOO MUCH WATER WAS PUMPED. EPA STATED THAT
	WELL Depth @ DW-05= 83.75 toc		DW-05 PREWOUSLY GADSED PROBLEMS DURING SMUPLING
1423	WATER LEVEL P DW-05= 25.6 toc		EVENTS.
	COLLECTED EQUIPMENT BLANK FROM BLADDER PUMP	<u> </u>	
1	COLLECTED SAMPLES @ DW-05 ~ 4 gellands Hellen		
1	TL LEAVES DW-05. SAMPLES WERE COLLECTED WHEN		
	PARAMETERS Stabilizes due to increased drow-down		A CARLER AND A CARLE
	WL PH LE T. DO T. TDS ORP		
· · · · · · · · · · · · · · · · · · ·	27.78 7.00 46 320 5.3 18.0 0.30 -49		
-	30.2 7.07 45 120 4.8 18.0 0.29 -85		The state of the second s
	32.95 7.09 45 100 44 18.0 0.29 -98		
1511	36.97 7.10 45 75 4.0 19.9 0.29 -105		
1522	42.00 7.09 45 51 3.4 17.9 0.29 -114		

08			. 09
	WEDNESDAY, 1/9/08 TOROLOOD SHUMAKER	<u> </u>	1/9/08 TORO6002 SHUMAKER
	ONSITE : SOOTE ELLINGER, ERA	951	WATER LEWEL @ DW-022= 32.45 to2
99 	WALLY OREAR TO	1010	BEGAN FUMPING USING BLODDER PUMP, MID CONTROLLER "
	Nicore Guner, T		HORIBA.
	CONDITIONS: CLEAR, 50°F, 5UGHT BREEZE	1014	WL PH C T DO T TDS ORP
<u> </u>	TL ARRIVES @ DW-02 & DW-02L	1014	33.4 7.92 28 460 5.9 16.9 0.18 5
810	TL BEGINS SETUP @ DW -02	1019	33.4 8.12 28 470 4.8 17.5 0.19 -89
817	WATER USUEL @ DW-02= 8.08' for	1024	33.4 8.13 28 480 3.8 17.7 0.19 -113
824	SWITCH WATER LEVEL METERS	1029	33.25 8.15 29 890 2.9 17.8 0.19 -121
	WATER LEVEL @ DW -02 = 8.08 toc	1034	4 33.4 8.14 29 -5 2.3 18.2 0.19 -121
	WELL DEPTH @ 53.44 toc	1038	3 33.27 8.12 29 -5 1.9 18.1 0.19 -122
836	BEGAN POMPING USING WATERRA VALVE.	1042	2 33.35 8.13 29 -5 1.6 18.2 0.19 -124
	WL PH C T DO T TOS ORP	1046	<u>33.4</u> 8.13 29 -5 1.3 18.3 0.19 -120
<del></del>	8.68 6.54 20 130 -1.5 17.3 0.17 -44		
		1054	33.25 8.13 29 -5 1.0 18.3 0.19 -129
	9	1058	33.3 8.13 29 -5 0.9 18.3 0.19 -131
858	8.65 6.97 26 110 0.4 17.5 0.17 -83	1102	33.32 8.14 29 -5 0.8 18.4 0.19 -133
902	8.6 6.97 26 99 0.4 17.5 0.17 -34	1105	TL COLLECTS SAMPLES @ DW-021
906	8.68 6.97 25 69 0.4 17.4 0.17 -85		DUPLICATE SAMPLES COLLECTED @ DW-02L
910	8.6 6.97 25 56 0.3 17.6 0.17 -86		LABELLED AS DZ GW- D21 W/TIME OF 1434
914	1.7 6.95 25 47 0.4 17.6 0.16 -86		DECON Y CLEANUP.
918	8.7 6.98 25 43 0.3 17.6 0.16 -88	- 1147	LEAVE DWOZ + DWOZL
922	8.7 6.99 25 39 0.3 17.6 0.16 -89		PHOTO 5: VIEW SOUTHEAST OF WALLY DECON, ING EQUIPMENT
428	TL COLLECTS SAMPLES @ DW-02		C Dw-02L
945	WATER LEVEL @ DW-02L = 32.23' foc		ARAWE @ SWO9
	WALL DEPTH @ DW-DZL = 141.47 toc	11.59	5 WATER LEVEL @ 5wog = 8.85 toc
-			WELL DEPTH @ SWO9 = 28.8 toc

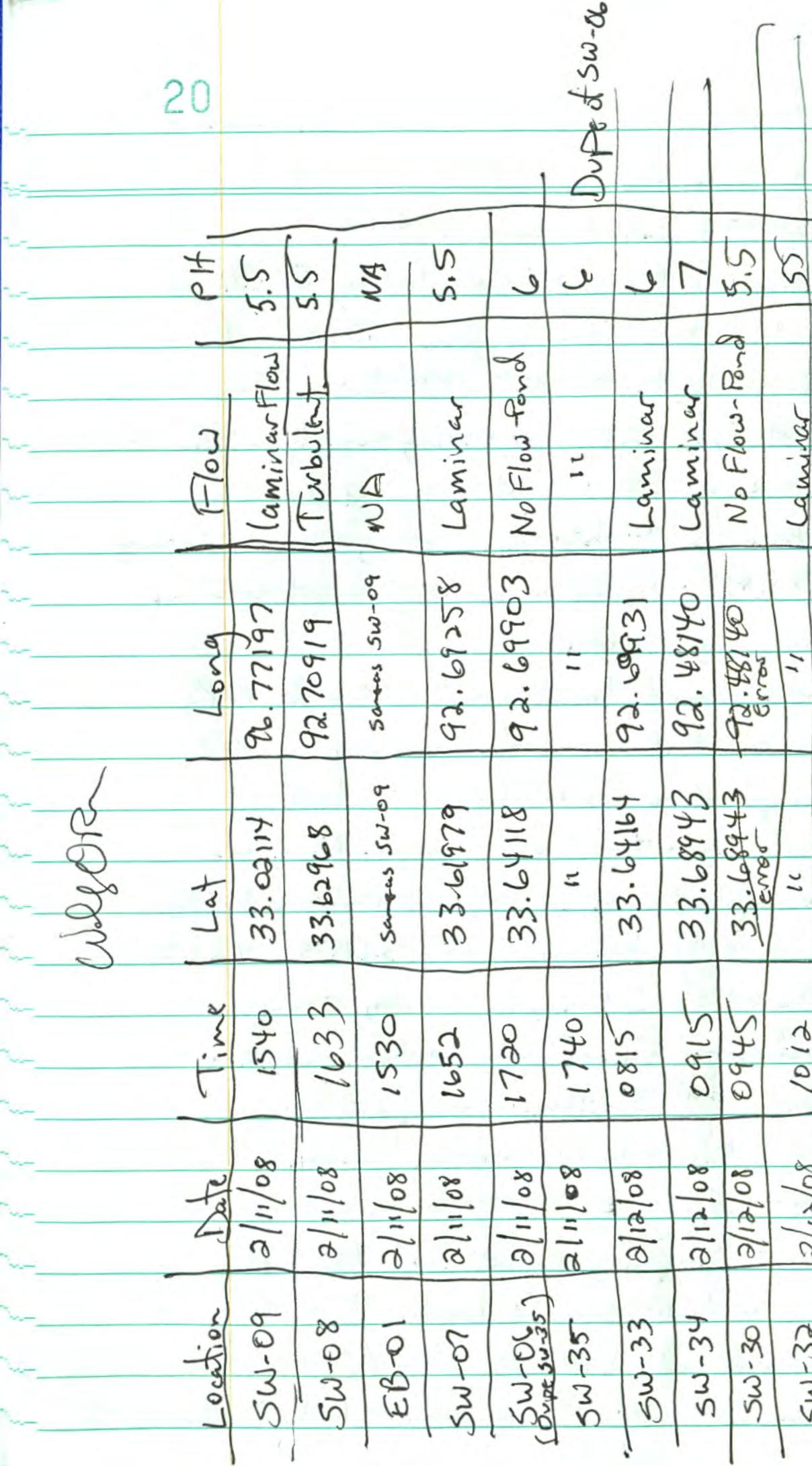
			1/9/08	T09.06002	Shumaker
10					11
	1/9/08 TOROLOOO2 SHUMAKER		WL PH	3	T TOS ORP
1200	WATER LEVEL P SW09 = 8.85 toc	<u>1459</u>	29.61 7.82	32 330 0.	- · · · · · · · · · · · · · · · · · · ·
<u>، یہ 8مگا ہے ۔</u>	BEGAN PUMPING CO SWOG USING QUATERRA PUMP.	1503	27.62 7.82		
	M_PH C T DO TOTOS ORP	1505	1		WOI. (GW-DOI)
1209	9.5 6.07 10 300 1.0 17.4 0.07 88		TL ALSO CON	LECTS DUPLICA	TE @ DWOI (4W-D22)
· · · · · · · · · · · · · · · · · · ·	9.8 5.81 10 -5 0.5 17.5 0.06 72				MATRIX SPIKE @
	1.88 5.81 10 5 0.4 17.6 0.06 68		DWOI (GW	DOL MS)	<u> </u>
1222	7.9 5.81 10 -5 0.4 17.8 0.06 66	1548	TL LEAVE DU	NOI TO GET ICE T	HROW AWAY TRASH 4
1225	The CONFETS SAMPLES @ Swog		MOVE TO NEX	1 STTE	
1248	TL COLLECTS FIELD BLINK (FBOI)	1632	TL ARRIVES @	5WOI EPA DAOU	ETL TO ALL WELLS
- 1312	TL LEAVES SWOQ	1637	WATER LEVE	L @ Sw01 : 21.3	toc
1323	TL ARRIVES @ DWOL AFTER BATHROOM BREAK		WELL DEPTH	@ 5wo1 : 50.12'-	toc
1406	TL BEGINS PUMPING @ DWOI WITH BLADDER PUMP, MID,	1649	TE BEGAN P	MEING SWOI	the second second
	Heriba SETUP	1 . A.	WL PH	<u> </u>	TTO TOS ORP
	WL PH C T DO T TDS ORP	1650	22.6 120	550 330 43	17.2 0.08 -5
- <u></u>	29.5 7.98 36 -5 4.6 18.6 0.24 -94	1655	23.5 6.45	13 270 0.4	17.1.0.09 -33
	29.52 7.95 36 5 3.6 18.8 0.23 -115	1059	24.3 6.47	14 320 0.1	1 17.4 0.09 -44
1.419	19.5 - 7.91 - 35. 5. 2.7 18.8 0.23 -125	1703	24.5 6:48	14 340 0.4	17.0 0.09 -52
	19.54 7.89 34 5 2.1 18.9 0.22 -127	1707	24.65 6.47	14 300 0.4	17.2 0.09 -49
1427	7.56 7.87 33 5 1.6 18.9 0.22 -129	1710	TL CONECTS	SAMPLES @ SWOI	(gw-501)
<u> </u>	29.56 7.87 33 -5 1.3 18.7 0.22 -132	1735	TE LEADES SL	301	1.9 <u>6.32</u> 340 <u>-</u>
1435	19.57 7.87 33 790 1.0 18.7 0.21 -135		a and	<u></u>	
	19-67 7.86 33 760 0.9 18.8 0.21 -137			Hard A.	the starte start
	9.57 7.86 32 650 0.8 18.8 0.21 -137		<u>а</u>		
	19.59 7.85 32 480 0.7 18.8 0.21 -137		- <u> </u>		22
<u> </u>	1.59 7.84 32 450 0.6 18.7 0.21 -138				
1455	29.6 7.83 32 360 0.5 18.7 0.21 -14		2 19. 1	n an	

	12	THURSDAY 1/10/08 TORO 6002 SHUMAKER		13 1/10/08 TORO 6002 SHUMAKER 13
1999 (a. 1997) 		THUESDAY TITOTON TOROBOOL SHOWARE		
		ONSITE : WALLY OREAR, TL	1020	
, 		NICOLE GWTER, TL		WATER LEVEL @ DW-04 = 9.7 toc
		CONDITIONS: FOGGY, RAN, 55°F	1025	BEGAN RUMPING @ DW-04
	736	TL+ EPA INROUTE TO WELLS FOLLOWING SHIPPING		WL PH C T DO T TDS USP
		3 GEOLERS VIA FEDEX	1029	9.6 7.56 32 40 3.3 18.5 0.21 105
	809	TL + EPA ARRIVE @ DW-04L	1034	12:2 7.62 32 600 0.4 18.5 0.21 -49
	815	WATER LEVEL @ DW-04L: 30.2' for	1038	12.27 7.62 32 54 0.4 18.5 0.21 -86
		WER DEPTH @ DW-04L: 137,9 + toc	1044	
9 13 22 3 <u>3</u> 19-13		WATER LEVEL @ DW-04L	1048	12.2 7.72 33 36 0.4 18.6 0.21 -122
, , ,		SETTOP @ DW-OYL / BEYAN PUMPING	1055	TL COLLECTS SAMPLES @ DW-04.
		WL PH C T DO T TDS ORP	1120	
4	840	30.3 8.37 30 -5 1.8 17.7 0.20 87	1124	
		30.6 8.46 30 -5 1.2 17.8 0.20 28		WELL DEPTH @ SW-05: 27.4 toc
		30.25 8.46 30 780 1.0 17.8 0.20 -27		WATER LEVEL @ 500.05:
<del>                                 </del>		30.4 8.45 30 590 0.8 17.9 0.19 -67		BEGAN FUMPING @ SW-05
		30.27 8.43 30 480 0.8 17.9 0.19 -89		W pH C T DO T TOS CRP
		30.25 8.42 30 310 0.7 17.9 0.19 -112	1133	3.9 5.41 7 250 2.9 18.0 0.05 259
;; <del>;;,,,,,</del> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,		30.25 8.42 30 270 0.6 17.9 0.19 -13		3.95 4.91 7 300 1.7 18.0 0.05 292
		30.25 8.41 30 230 0.5 18.0 0.19 144		4.03 4.63 7 850 1.6 18.4 0.05 320
 				403 4.65 7 770 1.6 18.5 0.85 319
<u>,</u>				4.08 4.75 7 740 1.4 18.5 0.05 314
1				4.08 4.83 7 620 1.6 18.5 0.05 305
, <del>17</del> , 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	Í			
		30.4 8.40 30 100 0.4 18.0 0.19 767		
·		TL EOLECTS SAMPLES @ DOYL		
	1019	WATER LEVEL @ DW-04= 9.7 toc	1206	4.1 4.97 7 540 1.5 18.6 0.05 294
i		Min Jouge 1/10/08		Mind Duga 1/10/08

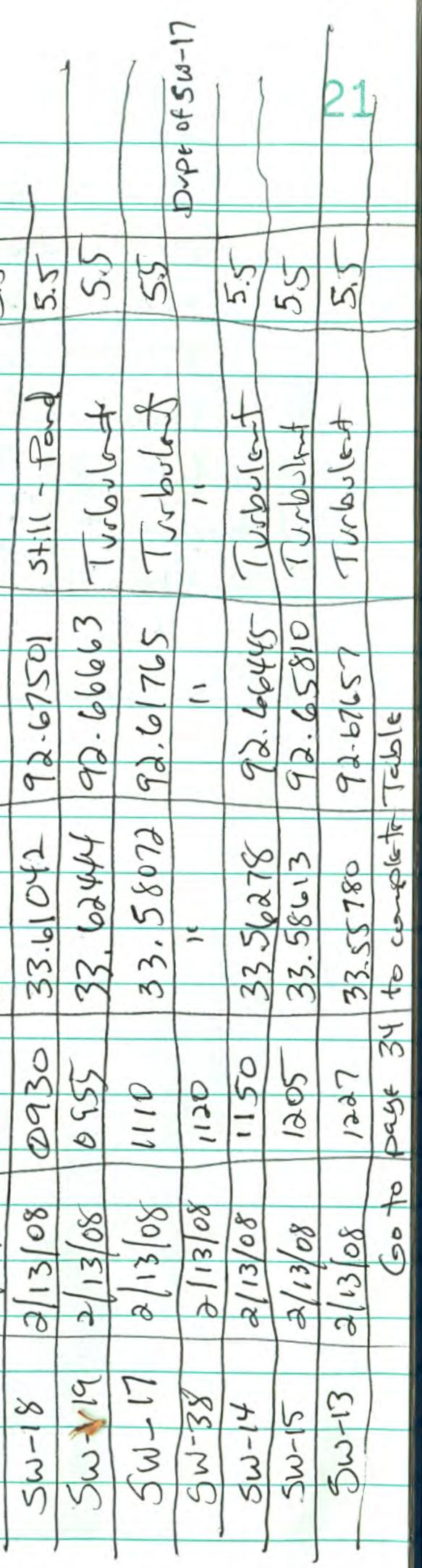
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		14			15
			1/10/08 TORO6002 SHUMAKER		1/10/08 TORO6002 THUMAKER
			WL pH C TITLE DOME TO TOS OFF		WL CH CT DO T TOS OKP
	/	210	4.1 5.00 7 546 1.5 19.7 0.05 289	1454	4.02 5.06 5 740 1.3 14.9 0.03 228
		212	TL COLLECTS SAMPLES @ SWOS, -7 yollow Hed	1459	4.04 4.96 5 290 0.8 17.4 0.03 208
/ 	<u>- 1</u> 1	237	TL + ADED LEAVE SWOS DIANNA KILBURN	1503	4.02 4.97 6 910 1.0 17.7 0.04 204
}	<u> </u>	331	TL ARRIVES @ 5W-7.	1507	4.02 4.91 10 -5 21 17.8 0.07 211
		1334	WATER LEVEL @ SW-7: 12.07 for sure	151a	4.05 4.88 12 -5 2.9 17.9 0.08 219
	194 <sup>- 19</sup> 1		Were DEPTH @ 5w-7: 29.38 toc	<u>151 (o</u>	4.03 4.88 12 -5 2.9 17.9 0.08 221
	<u> </u>	340	WATER LEVEL @ JW-7: 12.07 tec	1520	4.03 4.87 12 620 3.0 17.7 0.08 223
		345	TE BEGINS PUMPING	1524	4.03 4.87 12 500 3.0 17.8 0.08 225
مىربى مىربى مىربى مىربى مى			WL CHILLET DO T TOS OR	1528	4.03 4.84 12 430 3.0 17.9 0.08 229
	. 1	346	12.1 4.87 6 59 4.2 18.1 0.04 310	1532	4.03 4.87 12 320 3.0 77.8 0.08 231
		351	12-1 4.76 6 130 5-8 17.6 0.04 331	1530	4.03 4.87 12 300 3.0 17.8 0.08 234
	•	355	12-1 -4.63 5-5-5 5-5 18.5 0.04 354	1540	4.03 4.87 12 250 3.0 17.7 0.08 237
		1359 1	12.09 4.70 6 -5 5.5 18.7 0.04 355	1544	4.03 4.87 12 230 20 17.9 0.08 233
	(	403	12.1 4.78 5 -5 55 189 0.04 350	1550	TE COLLECTS SAMPLES @ 506 ~ 10 galloro Hoo
1	<u> </u>	405	TI COLLECTS SAMPLES @ SOT.	16(2	TZ LEDVES SOG FOR-TRASH.
	<u>.</u>	432	TL LEADE SO7		
<u></u>	<u></u>	436	TL ARRIVES @ SOL		
	\$\$ <u></u>	194{p	WATER LEVEL @ SWOG : 3.95 toc		
		-	WELL DEPTH @ SWOG: 299 toc		
	**. <b>.</b>	~~`\.	WATER LEVEL @ Swo6 3.95		
	10,	453	BEGAN PUMPING @ SWOG		
·	S. S.	~ 1			and the state of the second second
		2.4×0			and the state of the
		2 2 2			Alter and a second s
		900000 FI 1880			

16	FRIDAY, 1/11/08 TORO 6002 SHUMAKER		<u>1/0</u>	08	To	Robos	2		SHUMAK	17 ER
	ONSTE : WALLY OREAR ,TI.		WL	PH	c	<u> </u>	DO	<u> </u>	TDS	orp
·····	NICOLE GUYER, TL	904		4.96	15	ITO	9.1	12.8	0.09	267
	CONDITION : PARTLY CLOUDY SLIGHT BREEZE, 50 F	908	9.05	5.28	15	99	1.1	16.5	0.10	225
	TL ARBIDES @ SWOY	912	9.1	5.08	14	150	1.3	14.8	0.09	235
7.36	WATTER LEVEL @ SWOY : 3.02' toc	916	9.02	4.95	12	200	1.6	16.7	0.08	239
	WELL DEPTH @ SWOY: 22.3' for	920	9.02	5.08	13	200	19	17.1	0.08	228
+- <u>-</u>	WATER LEVEL @ SWO4: 3.2' toc	924	9.06	5.01	11	960	2.3	17.2	0.07	226
	BEGAN PUMPING @ Sway USING WATERRA VALUE	928	9.05	5.08	IQ	190	23	16.8	0.08	214
	WL pH C T DO T TDS ORP	932	9.05	5.00	u	(30	2.3	16.8	0.07	aaa
- <u>-</u>	4.23 4.03 6 290 6.4 126 0.04 296	936	9.08	4.97	10	170	2.4	(7.1	0.07	
	4.6 4.76 6 500 3.7 14.5 0.04 250	940	Tia	outors	5000	LES @	Swag	<u>~5</u> ;	Jullons	Ho
	4.95 4.76 5 970 3.6 15.3 0.03 264	955	TLU	EAUES S	jwag	<b>.</b>		······		
80.2	4.95 4.75 5 -5 3.5 15.3 0.03 273	958	TL /	ARRIUES	(a 5	wor			<u></u>	
806	4.7 4.39 5 -5 3.3 15.1 0.03 290	1003	WAT	ER LEUE	4 @	Smaz	: 3.5	55 ' +	<u>+</u>	
810	4.9 4.67 5 950 33 15.6 0032 241	1005	WEL	r denn	. @ 5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	30. 02	'tre		
814	1.8 471 5 950 33 15.9 0.03 271	1012	TL f	BEGINS	UMPL	NG				
8(8	4.8 4.71 5 5 3.2 15.8 0.03 271			<u>рн</u>		T	00	T	TDS	ORP
822	4.75 4.72 5 -5 3.2 15.9 0.03 268		-	5.18		230	5.1	15.8	0.04	230
	TI COLLECTS SAMPLES @ SWOY ~ 5 yullins A.O	1017	4.95	5.52	7	-5	0.5	16.7	0.05	128
842	TL CEAVES SWOY			5.68		-5	0.4	16.9	0.00	73
. 847	TL ARTIVES @ SWO3	1025	4.7	5.66	8	~5	0.4	17.1	0.05	73
851	WATER LEVEL @ SW03: 8.6' for		1.51	5.50				+-	0.05	a la companya de la c
	WELL DEPTH @ SWO3 : 30.4 ' for	1030	TLCC	FALE	SAMP	1.65 @	Swa2	50	Wons	He0
	WATER LEVEL @ Swo3: 8.6 toc	1051	TU	FAUE.	Swoz	<b>.</b>				
·	BEGAN RUMPING @ SW03:		-		This	2ha	. Wut	<u>~</u>		
nan maddal e	Rive Ay 1/11/08					جرب				

Shumaker 18 Monday 2/11/08 Shumaker 2/11/08 R06002 Surface Water Sampling SW Sampling R06002 Lat 33.62968 Long92.70919 2/11/08 1540 Arrived @ first location 5W-09 Sample # SW-08 Collected by S. Ellinger + Weather Partly Cloudy, Temp= 68°F bottlod by Linh Nguyen. Stream flow Techlaw Personnel - Wally O'lleas turbulent. Photo PH=5.5 - SampleTimele33 1630 Photo \$\$ \$2 S. Eilinger taking supply, middle of EPA Personnel - Scott Ellinger, (in Creek @, 30ft west of bridge - Looking Jownsend, + Linh Nguyen. 1635 Photo to LinhAgingon bottling sample Looking Latitude 33.02114 Lon 96.77197 All samples will be analyzed for 1635 Photo # 18- Facing bridge from Sample Location @ perchlorates, Explosives + RCRA Metals/ Sampling time is 163.3 (0) 16:45 Lett single location SW-08@ 1645 morcury. EB-01 (Equipment Blank) taken @ 1530 SW-09 was taken 40 ft south of bridge, 16:49 Arrived @ sample Location SW-0? in the middle of the creek, laminar Flow, Sample times is 1652. Collected Sy 5. Ellinger and bottled by L. Nguyon. PH= 5.5 PH+ samples will be taken by EPA Sample taken in between vailroad bridge porsonnel. Scott Ellinger grabbed the and auto bridge. Lat 33.61979 92.69258 1653 Photo #86 S. Ellinger taking sample Sample and Linh Nguyon bottled the Sample facing auto bridge. Looking Sangle. Photo #1 - Sample blank (Time 1530) 1654 Photo #915. Ellinger facing rail bridge Photo#2 - Scott Ellinger & Linh Collected Scople SW-09 1654 Photo #10 - L.N. bottling Looking PH-5.5. time 1532 20 Location Looking South Photo#3- Sample Collection Time 1540 new bridge Time 1541 Photo#4 Collection Swaple SW-09 from Stream. 1708 Left Sarpling Location # 7@ 1708 1715 Arrived O sangle Location# SW-OL Left Location SW-09 @ 1622 Sarple collected @ 1720 (SW-06) anivol & Location 5W-08 @ 1632 Sample collected 8ft of bank. A duplicate webox Wils Oken



	SW-32	2/12/00	6101			minu	
1	-	01/1	10 35	11		Lawing 1	
U	56-21	20/11/0	10 21		0000000	No-Flow Fard	2
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1	2		0000	22 1.7500	92.53937	Nother Pard 6	0
	re mo	0/10/00					
J	FB-01	80/01/08	11:45	Ę	=		
)	54.27	80/10/08	12:17	33.68911	92. 5864C	Law ran Fley S	5
ľ	SW-37	80/e1/c	12:30	1-	11	Collected Matrix Spike Volume	MA DUDG PL
	SW-26	2/12/08	13:15	33.68952	92.61390	No Flow Pul	9
,	Serms	80/e1/e	so:HI	33.66411	93.62286	1	S'S
1	oe-ms	80/c1/8	14:30	33.62996	92.63850		5.0 matrix Spile Volu
	5W23	2/13/08	0 800	33.63424	92.60504	-12	S.o
1	5W-24	2/13/08	0830	33.65083	92.58560	- 0.	
	EB-02	3/13/08	0830	1	1		1
	SW-22	2/13/08	0855	33.61982	92.59061	Turbulant S	5
	5w-21	2/13/08	0160	33.61580	92160.69	Furbulant	SS



23 Shumake 22 2/11/08 2/12/08 Shundter TJOSDAY SW supling SW sarpling was taken @ SW-06. The duplicate 0630 prepared samples for shipnent Sauple is SW-35 and time is re-iced + taped. 1740. The sample SW-06 was 0700 left for sample Location taken by S. Ellinger & bottled by Heavy rain, Temp 55°F Sample team some as yesterday Wall O'Ren TL L.N. No, Flow - Pound Scott Ellinger, Tim Townsend + Linh Nguyon, EPA. 0815 Arrived @ 500-0 SW-33 1721 Photo #12- S.E. taking sample Looking Nort & SW [72] Photo#10-LN. botting sample - Looking GPS 33.64164 92.69931 PH-6 + lett SW-06 @ 1735. The sample was collected under power lines Returned to hotel for sample prop. by S.E. + bottled by LN. The stream Flow was laminar. Photo 14017 0820 SE collecting Sungle SW-33, Looking F PH=6 0825 Loft Location SW-33 33.65943 @ 68943 0914 Arrived SW-34 92.48140 48140 SW-34 - Sample collected by Scott Ellinger. Sample time is 0915 Streamflow is laminar. It was collected under power lines PH=7 0911e Photo #14 SE taking Sample Looking 0917 Photo #18 LN bottling sample 0930 1 AFF Low Willing Sampling Location Looking 0930 Left location. All sangles were placed on Waly Oren

2/12/08 Shumaka 25 24 2/12/08 Shomakar Surface Water Saupling Surface Water Supling 0940 Arrived @ 5W-30 33.68943 92.48140 Heavy Rain (Note error in GPS) Scott Ellinger. The sample was collected @ 5 ted from the road. 33.68943 92.48140 (error in reading GPS) Banpling Time is 1035 0945 Sampling Time for SW-30 1036 Photo of S. Ellinger collecting sample No Flow - Pond. at middle of Stream. Photo #20 0944 Scott Ellinger collecting sample Photo#jo PH 5.5 0945 Bhoto #21 Linh collecting sample. Note 1050 Left Location SW-31 1056 Arrived & saysling location 5W-29 ( Bld busin background. 33.16734 92-53937 PH-5.5 Left Location @ 10:00 light rain. The Sample was 1010 Arrived@ SW-32 Location collected the S.E. Corner Weather heavy sain, Tamp 55°F of fond and 10 ft off of bank. Collected Sample @ middle of creek de the end of the road. T GIS 33.68943 92.48149 Erros in reading GPS Sangle Time is 11:00 1059 Photo of simple location Looking NW Photo # 21. Note: sign on Teff side of road. Sample Time is 1012 1101 Photo of sample being taken by S. Ellinger Vaninas Flow PH-7 1011 Photo of S. Ellinger Collecting sample Looking NE. Photo #22 PH-5.5 No Flow Looking South. thoto #19 1115 Loft Location #SW-29 tozoleft the Sampling Location @ 1025 Arrived @ Singling location + SW-28 1030 Arrived at Sampling location SW-31 Cooleded Field Blank FB-01 OK 11:45 Temp 30°F, light rain. Collected Sampling in the middle of stream Flow Tomp 457 no sain 33.67505 92.54907 Sample fine is 11:20 for SW28 Laninor Flow, Collected by allo de

2/12/08 Shundles 26 2/12/08 Shunaker Surface Water Sampling ROBEDZ Surface Water Supling Roboos. Temp to"F. Collected sample on the saple for SW-28 was collected East side of Poal. 10 feet off the bank by Tim Townsond in the SE. Corner at no Flow pond of the pond - No Flow @ 10 ft off 1315 Saugle time is 1315 got Dank Single Time is 1120 1316 Photo#25 T. Townsend collecting sample Sw-26 121 HAO Photo # 23 Photo of T. Townsond collecting Looking NW Sample - Photo by S. Ellinger. All Photos PH-6 left Location @ 1330 Up until now were taken by T. Towsand 1400 Arrived & Sample Location SW-25 Looking N.E. 33.66411 92.61390 We change the order of sangles and Tempto: F Overcast no rain collected the Field Blank @ 11:45. Simple Collected at 5 feet from road PH=C Stream Flow turbulant 1205 Loft location 5W-28 Sarpling Time is 14:05 1212 Arrived @ Sample Location SW-27 Sande Collected by S. Ellinger 33.68911 92.58646 1906 Photo#26 Photo of SE collecting Temp 45 No rain overcast Single SW-25. Looking NW Collected Single on the West side of PH= 5.5 Personnel from ADER arrived. Street. Collected ms at this location Sangling time is 1217 - Collocted Dupes W-37 1420 Left location SW-25 1427 Arrised D. Surpling location SW-20 1218 Photo of S. Ellizer Collectile Scuple 1/28 Photo#27 Photo of bridge that trom stream. Photo #24 crosses over the stream where Sample PH55. SW-37 is Dupg of SW-27 Sw20 will be taken. Note: Sign 1305 left the Sample Location SW-27 Looking NE. Flow 1310 Arrived @ Single Location SW-26 Flow is furbulant. 33. 62996 92.63850 33.68952 92.61390 - No Rain welly or (100000

2/13/08 Shumaker 29 SurfaceWater Samples R06002 28 2/12/08 Shrmater Surtace Water Sampling Robooz 1430 Simple fine for SW-20 0755 Arrived @ Sample location SW-23 Matrix Spike volume was also taken Streamflow Jurbulent, Collected on 14BI Photo#28 Moto of S. Ellinger the east side of road 33.63424 92.60504 taking sangle SW-20 Looking East 0800 Photo of Scott Ellinger sampling at 140 - left the Location This was the last sample of the day SW-23. Looking NW Photo#29 the team is returning to the hotel Sauple Time is 0800. to proporo sangles Sampling Team consisted of Scott Ellinger, Tim Towassond & Linh Neuverwith EPA - de la service service and ally O'Rear, Techlar and to the later and and the second of the s Temp 40°F + Sunny PH= 5.0 0820 Left SW-23 Location. 0824 Arrived at Sample location SW-24 Stream Flow - Gaminar, Collected Sample on the north side of road and 10 ft from road. Sample time for 54-24 is 0825 0825 Photo # 29 Photo of Scott Ellinger collecting Sample. Looking NE 0830 Collected Equipment Blank EB-02 at this location. 33.65083 92.58560 PH=5.5 0840 Lett Location 5W-24 0852 Arrived Q Sample Location SW-22 Willow

Shumaker 31 2/13/08 Shumaker Surface Water Sampling Roboos 30 2/13/08 Shunder Surface Water Sangling Roboos 0931 Photo #32 Scott Ellinger taking Location 5W-22 33.61982 92.59061 Samples from pond for SW-18, Looking E Stream Flow Turbulat. The sample 0935 Left Location 5W2818 Was collected on the North Side of road @ 30 feet ost. PH=5,5 0950 Arrived @ Sampling Location Sample Time is 0855 The sangle was collected by S. Ellinger SW-19 33.62444 92.66663 Storm Flow Turbulat. Collected 0855 Photo#30-5. Elliroger Collecting sample by S. Ellinger. In middle of creek SW-22. Looking East Sauple Time 0955 0907 Left Location @ 0907 0956 Photo#33 Photo of Scott collecting 5 mplos 0909 Arrived @ Sampling Location trom streambank. Looking West SW-21 33.6158 92.62159 PH=5.5 AirTonp 40°F Stream Flo 1005 Left location SW-18 Furbulant, Sunny Day. 11:00 Arrivad a Location SW-17 Sampling Time 0910 Will collect Dupe SW-38 at this location Sampling location is about 50 FEDERET Sarple time for SW-38 will be 1120 From Gridge. In the middle of the Sample fine for SW-17is 1110 Creek. It was collected by S. Ellinger 33.58072 92.61765 0911 Photo#31. S. Ellinger Collecting @ Suple Sw-21. Looking JW. Notresign Flow is Turbulent PH-5.5 11:12 Photo#34 Photo of Scott Ellinger PH=5.5. collecting sample Looking NW 0922 Left Sampling location 5w-21 @0922 11:32 Left location SW-17, 0927 Arrived @ Singling Location 5W-18 11:37 Arrived @ 5W-14 Sample time is 0930 33.56278 92.66445 33.61042 92.67501 willier. well o'Ren

Shumerker 33 2/13/08 32 2/13/08 Shinator Surface Water Scupling Raboos Surface Water Scupling ROGOOD Collecting sample on west side Saupling Time for SW-14 is 1150 of bridge. 1151 Photo #35 - Scott Ellinger collecting supla Sample time is 1255 from SW-14. Looking West 1256 Photo#38-Scott Ellinger collecting PH= 5.5 Sangle SW-107 5W-39. Looking Loft location @ 1203 down. 120- Arrived @ Location SW-15 PH= 5.5 Stream Flow Turbulant 33.58613 92.65810 Loft location @ THIS 1315 Stream Flow Turbulent 1350 Arrived @ SW-12 Sampling Timbis 1205 33.56212 92.70365 1206 Photo 36. Scott Ellinger collection Stream flow is animar Sungting SW-15 on the West side Saupling time is 1400 of bridge. Looking west. 1402 Photo #39-Is Tim Townsond PH= 5.5 collecting sangle. Looking SE. 1215 Left location SW-15 PH=6 1225 Arrived O SW-13 1415 LEFF SW-12 location 33.55780 92.67657 60°F Tomp 1420 Arrived @ SW-11 Daugling time is 1227 33.58487 92.69637 1229 Photo 37. Photo of Scott Ellinger Strem Flow is turbulent taking sample from west side Daupling Time is#25 of Bridge. Looking NE. 23.55780 93.67 PH 35.5 1427 Photo# 40 - Photo of Scott Ellizocollecting SW-11. Looking SE 1240 Loff SW-13 H= 5.5 Sample is in middle of creek 1250 Arrived @ SW-10 1440 Left Location - Return to Hotel & Process Samples 33.58149 92.7022 Ce llou ORu Willow ORan

35 34 humaker 2/1-108 Surface Water Sampling R06002 0830 Arrived @ Sw-4 Oupe 33.64920 92.69259 5 FZ 550 5 vi Sampling Team is Scott Ellinger, Tim Townsendand Linh Nyugen, EPA and ady ORer, Techan Tomp 40°F Sunny Saupling Time is 0835 6837 Photo #41 - Scott Ellinger collecting supple そしょう 500 367 4 of SW-4. Looking NW 182 PH= 5 Flow is laninar 02. 92. 33 33. 53 Es la 25 25 LEFT SW-04 0845 Arrived SW-5 33.56212 7849 33.64985 00 5 666999. 0 33.64985 92.78198 5 5 33.649 Sandetime is 0850 to 33.6 33.5 33 33 33 0852 Photo #42 Photo of Scott Ellinger 33 Collecting single Surs. Collected on the Est side of bridge Looking 310 9915 00 955 0380 1425 1015 Atto SE Water appeared Date brownish yellowin color 08 08 30 0000 200 08 0p PH=S Flow is turbulat 0900 Left 5W-05 0400 Lett 5W-05 0400 Arrived @ SW-12.0216 @33.66+93600 33.66600 92.66472 8 a 50 8 00 C MO Sw-39 10 cation Q SWI 61-Swat SW 33.66195 92.65318 SW Sh SW WalzoRes

Shuncker 2/14/08 Shumaka 36 214/08 Surface Water Sunpling Roboo2 Susface Water Saupling ROG002 0457 Photo#45 - Scott Ellinger collecting Sander collected on the east side Sample SLO-01. Looking East. at Bridge about 2 foot from bridge. PH=5.5 Flowis Laminar Water appeared light yellow. Sangle Collected approximately 5 ft Sample time is 0915 From Bridge. 0917 Photo #43 Looking Qown @ S. Ellinger 1000 Condeted Singling of SW-920 collecting sample 5W-16. Looking Down and left location PH=5.5. Flow is furbulent 1010 Arrived @ Sw-OD 0919. Completed sugly and left 33.67849 92.69971 Location Sw-16 Sample will be collected on the north 6930 Arrived @ SW-03 side of stream. (South of Road). O 33.666600 92.66472 8 ft. Frank. It is 20 feet Pond is west of Road about 100 yards West of motal yellow fonce. The sample will be taken approxi-Jolg Water appeared light yellow. 8A from bank. Sagle time is 1015 Sample fime is 0935 0937 Photo #44- Photo of Scott Ellinger tooking 10/6 Photo#46 Photo of S. Ellizer taking single SW-02 down taking sangle from SW-03 PH: 5.5 Flow is Laminar location. Looking SW 1030 Completed Longling and return to Flow-Pond. PH=5.5 hotel to process Samples. 0941 Completed Sarpling + left 5W-03 0950 Anived @ SW-DI 00950 33.66689 92.72914 Flow's baminan Sample time is 0955 2ll Den

Shumaker Site TO- R06007 5/19/08 Camden, Arkansas 10403 by A. Delgoob -> Sunny, dear, warm, 72°F, wind 6-7mph 5/19/08 Anival on site W. O'Rear, A. Delgado, S. Ellinger at wells well 54-5 7:40 am unload equipment from van, begin set up of generator at SW-5 take water level -> 4.9 inches at SW-5-752 am decontaminate pump with punched water into 5 gal. bucket place pump in well & depth of about 22-23 -ftim the state think amand the solution MA 44:8 measure other well levels before pumping begins in SU-5 DU-H 8.73 inches DW-46 29.95 inches Mar Storad - columna set up for 34-5. G worker frow \*21 # 210 18.9 (18) (P **5**. . #213 1212 connects .W.2 to pump filter columns well 20 F **1** A.P 含意 < 28:40 am 2:3 pumping started at 5 a 53.23 water doesn't seem to be flaring into the filter, stop pump and check out the filter and connections and check reed to turn head of siller to open internal value. this was alone, hooked tubes to back in, start pains again at 8:45 am 2.6 Rept SW-5 Water level 7.15 thetes at 8:47 am 24:18 1

Same St.			
Containing the Co			
72 % 120 6- 7 20	an a		<del>X A Q AL</del>
15 se	is autput	is about 1000 m	L w th so
in Leo S	ks that will	a only be 4.L	, we need &L
50 mugst	increase pu	mp rate	Hottopies Assiant
NAME SET Stopped 1	sumping. Por a	bit 8:52 am	to try and get
	-	n at 8:53 am	n same nat
- 19 28년 3월 19 20일 - 2018년 3월 19 20일 1월 19 20일 19 19 20일 19 20	그 같은 것 같은	at sw-s is 1	a set of the set of th
7-18:55 mm	Water Level	10, rate 15 achieved Rease NOA nachages	Control box
5W-05 18:55 am	Durpose	Nesult (PT)	Slayes Z16.00
8:56 am		11.2 iaches soot	
8:57 am	js ét	11.3 HACKes Reet	it TE TO A
8:57 am	N Strategy	11.45 inches Seet	Sanding Time is
8:59 am	and the second sec	11.75 inches least	
9:01-am	N. Contraction of the second sec	17.00 Ft	Jane Carson
75		1	neriester
9:03 am			
9:03 am	······································	Starting Strategy and St	
9:08 am	ff tf tł starianianianianianianianianianianianianiani	12.53	
<u>9:13 am</u>	······································		suite griganiy
<u>9:18 am</u>	<u></u>	12.9	e sizeut testiti *
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9:28 am		<u>→ 13.0 2 Lad</u>	an a
<u>9:33 am</u> -	Y M BUN	13.2	win an other
9: <b>3</b> 8 am	11 11	13.15	<u>1917 - 1981 - 1935</u>
9:43 pm		<b>3.</b> 17	
2		1 1	
	C.	an fan de fan de steren en ster	which has been provided by some such

Shumater Site TO-RO6007 Camden, AR 5/19/08 Small Site map S É - cod histes rand 2-11 R+ > 54-5 854 DU-4 ¥. DWHL έ 6.94 T Check flow rode at 9:44 am, still consistent, 7 sec 1800 mL (1L) out put is result (74) 13. 27 ft (54-5) -9:48 am 1Crs water level ÷ I 5 11 9:54 am 13.34 eis 8.75 ft 9:58 am Timphouse water level DW-H result (fy) 9:59 am Woller level 13. 34 ft (5w-5) macune water level Dus-41 29.93 ft 10:01 am result (F+) time measurement of (SW-5) \* S. Ellinger leaves 13.4 4 10:14 am water level Site. ... n 13.45 ft 10-29 am 21 .. 13.52 ft \* 11:04 5. Ellinger rotums to site 10:47 am 13.55ft + 11:18 W. O'Rear and 11 11:05 pm 11 11 13.5 ft 5. Ellinger leave site n 11=20 am 11 13.55 ft to measure water large 11 11:35 M 11 13,51 ft at other wells и 11:50 am h π 13.5 ft 12:05 pm  $\mathbf{n}$ Ħ 1358 ft x 12:37 W. O'lear and 12:20 pm 11 n 13.58 ft S. Ellinger restum to site 12:35 pm \* 12:58 W. D'Rear and 3 S. E. Unger Leave site

-10-RO4007 Shumaker Sae 5 19 08 Canden Arkansas result (ft) surpose time 13.58 ft water level 54-5 12: 1:05 pm 13.62 1:35 pm water level \* 2:39 Worear and SEAMORS on H u 13. Colo 2:05 pm 11 11 \* 2:47 W. O'Door and 13. lele 2:35 pm а ı١ 5. Ellinger have site 13.70 3:05 pm н £t. 13.87 3:35 pm I1 11 \* 4:33 W. O'Rear and 5. 13.90 4:05 pm 11 a 4:35 pm 13.90 Ellinger back on Site 13.90 Ł 17:05 ħ 6 13.90 A 11:35 2:43 pm dest flow rave, 8 Bec autput is 1000 mL -11 turn pump up just a little 17:00 Amondu lift the site and will return Result (FF) @ 22:00 <u>(</u>1) 13.90 20 18:05 10 X 13.90 Water Flowing @ 81 permin 18:35  $1 \propto$ 13.90 Gas 1/2 full 19:05 11 へ 13.90 Pump @ 218.03 ٧t 19:35 13.90 Gas 1/2 58 И 11 20:05 13.93 flow 81/min observed И M 10:35 VÉ 21:05 R 13.94 13.95 gas 1/2 se Ń 21:35 11 ιi. u 14.0 10:05 pm 9:37 Amarda back at the site Ц

		TO ROGOOT may 20, 20		shumaker-Ste Camden, Arhansas
		time	punpose	result (F4)
1.2		10:35 pm	water level	14. Xe
		11:05 pm	4 4	14.07
		11:35 pm	11 41	14.1
	5/20/08	12205 am	u u	14.1
		12:35 am	ii n	14-1
		1:05am	71 11	14.1
		1:35 am	11 11	14.1
		2:05 am	ji (t	14.1
ſ		2:35 am	sa ci	14.1
		3:05 pm	N të	14.08
		3:35 am	ji il	14.09
		4:05 am	1( 11	14.09 Wally took over
		4:35	NI 11	14.10
		5.05	1	14.10 I put gas in the generator
		5:35	<u>л 1</u>	14.09 Sun rising
		6:05	15 85	14.09
		6:35	11 21	14.09
	•///	1:05	/u 14	14.09
		7:35	u y	ALLAS SE
	v <u>************************************</u>	8:05	ri , ri	14.05 SE generator ma has 14.05 SE periodie strain noise
	an in the second se	8:35	11 h	14.07 56
		2	1. 11	14.10
		9:05 9:35	ji <i>1</i> 1	14.09 7-8 Second =1 Liter 14.09 Fitter Looks good
		10:05	<i>jt</i> 11	14,10
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		Keep juura her	ļ	1 5

TO R06007 Shumakar 5/20/07 Camden, Arkansas result (ft) Purposo Time Photo SHI-01 Photo of Isotope Photo 10:12 columns at SW-05, Looking down Photo Photo SHI-02 Photo of Filter unit 10:12 Well pump + generator 10:35 am Water level 14.15 Reet \* Amonda Recording again (back on site @ 10:26) 14.14 & H:05 am Woder level \* O'bear and Ellinger leave site И. Ń H. 15 A 11:35 am и И 12:05 pm 14.16 Pt at 10:46 am 11 61 14.16 12:35 pm 11 11 H.15 13:05 pm 14 и 14.15 13:35 pm н 11 14.15 11:05 pm મ и 14.17 1:35 pm 11 ... 15:05 m 14.16 11 u. 14.17 15:35 11 ι¢ 14.17 10:05 11 11 16:35 14.17 *c* = ... Wally backon site @ 16:45 14.17 17:05 11 17:38 BW-of water level 8,95 17:35 11 14.15 29.94 14.14 DW-04L 18:05 1. ti 14.14 A. Delado reave size 17:10 18:35 )( ١١. ¥. í١ 19:05 14.14 SE  $\mathbf{y}$ h 19:35 14.14 SE 20:05 11 U 14.14 SE 14.15 SE Fael 1/2, Flow Same 20:35 ĮÎ Ń 4 6 21:05 k 14.15

Shumaker Site TO ROLOOT Campen, Arkansas May 20, 2008 RESULT (F+) Time | Purpose | 21:35 Waterlard 14.15 14.15 22:05 a 11 14.15 11 22:35 31 23:05 14.15 ÷1 11 23:35 14.15 4( ιt n 11 \* A. Delgado back on site 14.19 5/21/08 00:05 E F 15 23:55 14.21 00:35 14.24 11 11 1:05 11 и 14.25 1:35 N n 14,25 2:05 v 11 14.25 2:35 11 ٤٩ 14-26 3:05 £ E įŧ 14.26 3:35 11 11 14.25 4:05 11 14.25 v 4:35 11 14:25 11 5:05 ١l 14.25 U 5:35 11 E 14.26 6:05 (0:30 am 5/21/08 Stop pumping, take apart set up, decon all gupment, final wonter level 7.19 for after pump tum off 7

TO RO6007 Shumaler Sik 5/21/08 Camden , Arkanses DW-4 ney ID # 3281 new lock installed 7:60 cm DW-4L key ID #3281 new lock installed Tiol am 5W-5 key ID # 30(02 New Jack installed T:02 am leave SW-05 Site at 7:09 am 5/21/08 Annual at 5W-7 at 7:48 am 5. Ellinger and A. Delgado Withou for U.O'pear to bring covers due to rearness of SW-7 to road side weather surmy clear, about 60°F unload equipment while waiting for W.O. Dear 5. Ellinger leave site at 8:02 am W. O'Rear arrives w/ comes at 8:22 am - SW-7 initial water level 10:56 ft at 8:37 am Leoptation ----( ~ 13-14 Ft S. Ellinger and W. O'Rear leave site at 9:01 am 8

Shamaher Site TO ROG 007 Comden Arkansas 5/21/08 Water Flow Siller well wover from 913-7 ٩ Column set up for SW-7 pump at ~ ZZ & depth Water # 209 # 208 \* 706 # 207 # 204 # 205 S. Ellinger and W. O'lear retarn to site 9:45 am pump started at 9:48 am measured rate is 8 L, but needes to be 12 50 turn up the pump 5 sec to pump 1000 mL (11) 50 this corresponds to 12 L in a minute, this rate was started a 9:54 am result sample ID\* pumpose time 11.5 ft IS-SW-07 9:59 Waster Level 11.55 ft supertanois 09:54 Water level 10:03 1 = 11.59 ft \$ 10:17 S. Ellinger left site 1043 11.6 ft \* 10:20 A. Delgade left site 11 10 10:30 11.59 ft Gastank filled 11 11 11.00 Filter looks ok 11.59 fl. ١., 11 11:30 11.59 ft SE flow consistent Ч H 1200 11.59 ft se И P) 1230 56 £1 4 11.60 ft 1300 11.60 ft A. 11 1330 Q

TO RO6007 Shumcker Camdon, AR May 21, 2007 Time, Purpose, Results (++) Water level 11.6 ft 1400 11.59 F+ 11 h 1430 11.53 Ft j1 Э 1500 11.51 f+ 1530 11 1 īι N 11.55 ff 1600 11.59 f. 1630 Ìι p 11.59 ft 化 z 1 1700 11.59 ft 42 0 1730 11,57-ft 1800 ¥ 11.57 ft se 13 1830 17 11 11.57 ft se 1900 11 11 11.57 ft SE 1930 11.57 Ft SE S. Ellinger left the site 2000 11 11 2030 ·l 11 11.57 ft 2100 ų 11.57f+ 1E 11.57 ft. 2130  $\mathbf{t}$ ٨ e c 11 11:57 ft \* A Delgado aninos at 2142 more 2200 11 ι 11.58 ft 22:30 £2 £€ 11.6 ft 23:00 14  $\mathbf{n}$ 11.6 ft 23:30 5 22 08 24:00 ι١ *i* t 11.6 ft I( 11 11. 6 Pt 00:30 11 L 11.61 Pt 01:00 11 11 01:30 lile 11 ιv. 02:00 11.Le 10

TO RO6007 Shumakar May 22, 2007 Camden, Arkansas Puppose Result Time 11.61 ft Water jovel D2:3011.61 ft water level 0 3:00 n И 11.6 ft 03:30 11 11 11.6 ft 04:00 11 H 0 4:30 11.61 ft 11 11 11.62 ft 0 5:00 11 L1 11.102 ft 05:30 H 11 11.64 4 06:00 11 11 11.65 ft 06:30 11 Ц 11. Lolo fr. \* W. O'Rear arrives on site 07:00 n 11.66 ft at 7:00 am 11 07:30 Water Flow check 11.66ft n 10 08:00 it is the liters per 11 11.68fi ŧτ minute 08:30 11.69 fr 11 11 09:00 k 11.69 Ft 09:30 1 11.70f+ 11 ٢I 10:00 11.70 ft We we we 14 10:30 4 11.71 ft 11 11 11:00 ( ۱ 11.71ft te 11:30 H 11:72 fr K 12:00 11.72 fr 11 12:130 11 51 11.72 ft 13:00 11 11.72 ft 13:30 V. v 11,72 ft 14:00 n VI. 11.70 ft 14:30 N1 ¥L 11

10-R06007 Shumakar Site May 22, 2008 Campon, Arkansas Time Purpose , Result (Fr) Water level 11.69 ft 15:00 n 1) 11.71 ft 15:30 30 Ĵ( 11.69ft 16:00 16:30 h 11 11.68 ft 11 11 11.69 ++ 17:00 17:30 10 11 11.68 n +1 11,70 \* 18:20 A. Delgado annives 18:00 ju 1. 11.72 on site W. o pear leaves 18:30 ul и 11.76 SHE 19:00 il \* 18:40 W. O'lear returns ... 11.77 19:30 .. to drop of gas for generator u 20:00 11.78 ۱ĸ rt and leaves size 11.8 20:30 11 11 11.81 21:00 41 11.84 H. 21:30 n 21 11.85 22:00 11 vL 11.85 22:30 ιt λt 11.88 23:00 11 11 11.9 23:30 · pi N 11.89 24:00 5/23/08 00:30 C. ιt 11.9 и 11 11.9 01:00 ιī. ĿĹ 11.9 01:30 п 11.9 Ľ٢ 02:00 a. i. 11.89 02:30 12

TO ROG007 5/23/08 Shumaker Site Canden Aricanses Result (ft) Purpose. Time 11.89 ft Water Level 03:00 11.89 ft Water Level 03:30 11.89 ft 04:00 11  $\mathbf{n}$ 11.9 ft 04:30 11 h11.9 4 05:00 11 11 11.9 ft 05:30 11 ιt 11.91 ft 06:00 it " 11.91 ft \* W. O'Rear annives on Sile 07:00 0(e:30 • ( 11.95A Amanda left site 10 07:09 0 ŧι. 11.94 07:30 11.94 08:00 11 h 11 11.96 n 08:30 11 11.97 1e 09:00 09:30 11 11.98 1 / 11 10 11.98 10:00 ιţ 11.99 10:30 11 11.99 11:00 I. •• 6, 11:30 30 12.00 ft K h 12.00 ft 12:00 £. 11 11.99 12:30 ŧx 14 13:00 11.99 11.89 13:30 11 11 11.99 14:00 11 11 14:30 ٧L n 11.99 15:00 1x 'nι 12.00 13

	TO RO 5/23/2000			Shumalkor Site Camden, Arkonsas
	Time	Purpose	Result	· · · · · · · · · · · · · · · · · · ·
	6	Water Level	12.00	
	16:00	te 11	11.99	
	16:30	11 /r	11.99	
	17:00	n n	12.00	
	17:30	), iL	11.99	ł
	18:00	R, U	11.99	* A. Delgado on Site at 18:15
	18:30	11 11	12.90	W. O'Rear leaves site of 18:30
	19:00	11 11	12.01	
	19:30	11 11	12.01	
	20:00	ft Et	12.02	
	20:30	11 11	12.02	
	21:00	the st	12.03	
	21:30	и і	12.03	
	22:00	11 11	12.03	
	22:30	12 24	12.04	
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5/24/08		11 11	12.07	· · · · · · · · · · · · · · · · · · ·
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	02:30	14 13	12.96	
X.	03:00	) <b>}i</b> i i	12.06	
			ne en la construcción de la constru La construcción de la construcción d	Щ

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TO ROCE 207 Shumaker Site 5/24/08 Camden Arkansas Time · Aurpose Result (F+) 12.08 FF Woder level 03:30 12.08 ft Amander for left site 04:00 k n 09:30 n 12.10 ft ĸ QU:00 11 12.11 n 12.11 U 05:30 h11 12.12 06.00 11 12.14 11 06:30 Εe 12.16 07:00 n, £1  $\boldsymbol{a}$ 07:20 12.16 () 07:25 Stopped the pump 11.31 after pup was stopped 07:30 71 1 c J. <u> 21/08</u> 15