Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

0074256

OCT 23 2007

08-AMCP-0004

Ms. J. A. Hedges, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
3100 Port of Benton
Richland, Washington 99354

RECEIVED
OCT 29 2007
EDMC

Dear Ms. Hedges:

ADMINISTRATIVE DECOMMISSIONING FOR 21 WELLS WITHOUT SURVEYS

The purpose of this letter is to transmit recent results of a continued systematic effort by the U.S. Department of Energy, Richland Operations Office to identify unique well records on the Hanford Site that require administrative decommissioning.

Attachment 1 lists 21 unique well records numerically by well identification and associated well name. In the past, a well identification number and a formal well name were assigned. None of the wells have survey coordinates. All wells are conventional single cased wells and none are piezometers. Attachment 2 contains copies of the pertinent supporting documentation available to administratively decommission these wells.

All wells onsite are assigned a unique well identification number during the well construction planning process. Once a well identification is assigned, that identification becomes a "unique well record" and the number cannot be used again, even if the well is never drilled. Well identifications and other pertinent well data are tracked in the Hanford Well Information System (HWIS). The well identification is also used as a "place holder" in the well name column in HWIS. Once the well is completed, the "place holder" well identification is replaced with a formal well name. The well naming protocols are designed to convey the well's general location onsite.

None of the wells have Water Well Reports available in the State of Washington Department of Ecology database. This documentation will be used to change the Current Well Status of all of these wells to "Decommissioned – Verified" in the HWIS Well Inventory.

If there are any questions, please contact me, or your staff may contact, Briant Charboneau, of my staff, on (509) 373-6137.

Sincerely,

Matthew S. McCormick, Assistant Manager
for the Central Plateau

AMCP:FMR

Attachments

cc w/attachs:
Administrative Record
Environmental Portal

cc w/o attachs:
B. H. Ford, FHI
R. E. Piippo, FHI
J. G. Vance, FFS

ATTACHMENT

ADMINISTRATIVE DECOMMISSIONING

FOR 21 WELLS WITHOUT SURVEYS

Well Naming Conventions and List of Wells in This Package

All wells on the Site are assigned a unique well identification number (Well ID) during the well construction planning process. Once a Well ID is assigned; e.g. A8087, that ID becomes a "unique well record" and the number cannot be used again, even if the well is never drilled. Well IDs, and other pertinent well data are tracked in HWIS. The Well ID is also used as a "place holder" in the Well Name column in HWIS. Once the well is completed, the "place holder" Well ID is replaced with a formal Well Name, such as 399-4-6. The well naming protocols are designed to convey the well's general location on the Site. For example, wells within the 100, 300, 400, 600, and 1100 Areas have Well Names which begin with "199, 399, 499, 699, or 1199" followed by two numbers separated by dashes. For 300 Area wells the first number after "399" refers to a sheet number for the 300 Area and the last number refers to the sequential well in that area. Therefore, Well Name 399-4-6 refers to the sixth well in sheet 4 of the 300 Area. Wells within the 600 Area have Well Names which begin with "699" followed by two numbers separated by dashes. The 600 Area Well Name is derived from the absolute value of the well's northing and westing in Hanford Plant coordinates rounded to the nearest 1,000 feet, respectively. For example, Well Name 699-4-81 is located in the area near 4,000 ft northing and 81,000 ft westing in Hanford Plant coordinates. Well Name 699-HAN-31 refers to a well within the 600 Area that is the 31st well near the old Hanford townsite.

The Washington State Water Well Construction Act (1971), Chapter 18.104.020 RCW, defines Well Decommissioning as "...to fill or plug a well so that it will not produce water, serve as a channel for movement of water or pollution, or allow the entry of pollutants into the well or aquifers." In 1986, the Site became subject to Washington Administrative Code (WAC) requirements. WAC 173-160-460 defines the requirements for well decommissioning. A completed Water Well Report form is required to be transmitted (by the Driller) to Washington State Department of Ecology (Ecology) when a well is decommissioned. This report provides the details of the well's construction and the steps taken to decommission (plug) the well. When the records available are insufficient to meet the specific requirements of the well decommissioning process, or there is no record of the transmittal, the wells are *Administratively* Decommissioned; i.e., all available information is provided to Ecology to demonstrate that the well was never drilled, or was drilled and subsequently plugged. Since many hundreds of wells were planned but not drilled, or drilled but subsequently plugged, between Site inception in 1943 and 1986, these wells are candidates for *Administrative* Decommissioning. In addition, records of some wells that were planned and not drilled, or drilled and plugged *after* 1986, apparently were inadvertently not transmitted to Ecology, as required.

All of the wells in this document are conventional wells with a single casing. None of the wells have Water Well Reports available in the Ecology database. Water Well Reports may have been transmitted to Ecology at the time of decommissioning, however there is no record in the database. This documentation will be used to change the Current Well Status of all of these wells to "Decommissioned - Verified" in the HWIS Well Inventory. Please inform Ecology of these changes.

	WELL_ID	WELL_NAME
1	A8090	399-4-13
2	A8087	399-4-6
3	A9112	699-114-11
4	A9833	699-17-25E
5	A9876	699-27-14
6	A8675	699-43-1
7	A8708	699-44-39A
8	A8710	699-44-43A
9	A8711	699-44-46
10	A8130	699-4-81
11	A9918	699-49-71A
12	A9919	699-49-71B
13	A9920	699-49-71C
14	A9921	699-49-71D
15	A9922	699-49-71E
16	A9923	699-49-71F
17	A8905	699-58-25
18	A8906	699-58-26
19	A8957	699-63-91
20	A9123	699-HAN-31
21	A9248	699-S49-E2

Administrative Decommissioning of 21 Wells with no survey coordinates starting with 399-4-6 (A8087) ending with 699-S49-E2 (A9248)

	WELL_ID	WELL_NAME		WELL_TYPE	WELL_PURPOSE	HOST_WELL_ID	DRILL DATE	DRILL DEPTH	CONST DATE	CONST DEPTH	DTB	DTW	WELL_NAME_SYNONYMS	DATE LAST ROUTINE MAINTENANCE	DATE LAST MAINTENANCE
1	A8090	399-4-13	no information available	STANDARD	GROUNDWATER										
2	A8087	399-4-6	casing removed	STANDARD	GROUNDWATER		31-Jul-58	134			134			31-Jul-58	31-Jul-58
3	A9112	699-114-11	Corehole, drilled by & for Bureau of Reclamation, 1966, hyrologic investigation borehole	STANDARD	OFF-SITE		31-Dec-66	95					15/27-36A	31-Dec-66	31-Dec-66
4	A9833	699-17-25E	need to check with PNNL if well were drilled	STANDARD	VADOSE										
5	A9876	699-27-14	HWIS Perforated casing 2 cuts per foot from 150 to 50 feet well @352' casing @ 340'	STANDARD	UNKNOWN										
6	A8675	699-43-1	pulled casing out of ground and backfilled hole cable tool, drilled by Bultena of Hatch for PNL, 1980, groundwater monitoring borehole	STANDARD	UNKNOWN		30-Sep-80	65						30-Sep-80	30-Sep-80
7	A8708	699-44-39A	pulled casing out of ground	STANDARD	UNKNOWN		30-Sep-85	42					699-44-39	30-Sep-85	30-Sep-85
8	A8710	699-44-43A	pulled casing out of ground	STANDARD	VADOSE		31-Aug-85	42					699-44-43	31-Aug-85	31-Aug-85
9	A8711	699-44-46	pulled casing out of ground	STANDARD	VADOSE		31-Aug-85	29						31-Aug-85	31-Aug-85
10	A8130	699-4-81		STANDARD	UNKNOWN		12-May-93	4						12-May-93	12-May-93
11	A9918	699-49-71A	Backfill, set coupons, add fill dirt, backfill	STANDARD	VADOSE										
2	A9919	699-49-71B	Backfill, set coupons, add fill dirt, backfill	STANDARD	VADOSE										
13	A9920	699-49-71C	Backfill, set coupons, add fill dirt, backfill	STANDARD	VADOSE										
14	A9921	699-49-71D	Backfill, set coupons, add fill dirt, backfill	STANDARD	VADOSE										
15	A9922	699-49-71E	Backfill, set coupons, add fill dirt, backfill	STANDARD	VADOSE										
16	A9923	699-49-71F	Backfill, set coupons, add fill dirt, backfill	STANDARD	VADOSE										
17	A8905	699-58-25	4' dug well per Hanford Wells	STANDARD	VADOSE										
18	A8906	699-58-26	4' dug well per Hanford Wells	STANDARD	VADOSE										
19	A8957	699-63-91	2 attempts were made to drill a 8 5/8" hole - both casings broke and were left in the ground. Air rotary, drilled by Aqua & logged for ARHCO 1975, hydrologic	STANDARD	UNKNOWN		31-Dec-75	50					699-63-91A	31-Dec-75	31-Dec-75
20	A9123	699-HAN-31	2006 6" casing - pipe pulled 1943	STANDARD	UNKNOWN		30-Jun-43	37			37		HI-10W	30-Jun-43	30-Jun-43
21	A9248	699-S49-E2		STANDARD	OFF-SITE						180				

A8087 399-4-6

399-4-6 A8087

WELL ATTRIBUTES REPORT

LD ORDER NO				**LAST INSPECTION**	1/1/1801
ELL ID	**A8087**			**NORTHING**	
ELL NAME	**399-4-6**	**CONST DATE**		**EASTING**	
HOST WELL ID		**CONST DEPTH**		**ELEVATION**	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
BING LENGTH (ft)		TUBING LENGTH (ft)	
BING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

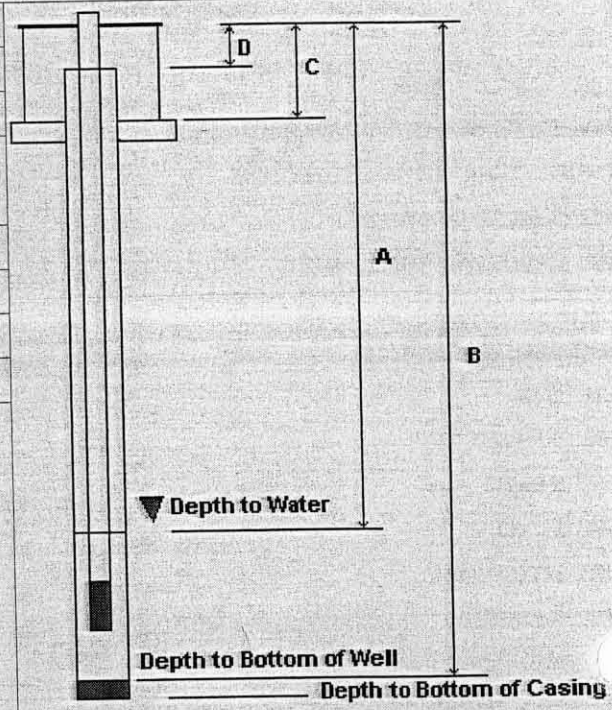
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8087			NORTHING	
WELL NAME	399-4-6	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)	134	
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING_ELEV / WELL_DIAM / DATE_COMPL	DRILL_DEPTH / COMPL_DEPTH / DEPTH_WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
399-4-6			390.00	134.0					CASING REMOVED
AB			8.0	134.0					
			7/58						
399-4-7	115492.88		378.64	155.0	P	8.0	21.0	150.0	PLUG AT 82 FT.
GW	594603.38		8.0	82.0					
S			11/61	36.0					699-53-E16
399-4-8			382.04	72.0	P	6.0	35.0	53.0	BURIED 6' BELOW SURFACE, MAG-
GW			6.0	72.0					NETIC SURVEY FOUND IT.
			10/71	41.0					
399-4-9	115741.74		382.24	65.0	S	8.0	38.0	58.0	#20 SCREEN 38-58 FT.
GW	594538.01		8.0	65.0					
S			9/76	37.0					
399-4-10			377.59	60.0					SCREEN 30-50 FT.
GW			8.0	53.0					
S			9/76						
399-4-11			404.53	71.0					SCREEN 55-70 FT.
GW			6.0	70.0					
H			11/86	62.7					S-1
399-4-12	115373.00								
GW	594548.00		12.0						
399-5-1			395.60	102.0	P	8.0	23.0	100.0	
GW			8.0	90.0					
S			2/51	53.0					303-11
399-5-2			390.71	424.0					CONFINED AQUIFER
GW			8.0	417.0					
			7/54	9.0					303-13
399-5-3			394.00	36.0					CASING REMOVED
AB			8.0	36.0					
			5/51						300-2- T.H.
399-5-4A				65.0					
AB									
			5/93						
399-5-4B				58.9	S	4.0	42.0	57.3	
GW			4.0	57.3					
			4/93	50.7					

599-4-4

DRILLING LOG

PROJECT NO. AT (45-1)1282

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1	3	7-31-58	0'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Henry Bach			40'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
[illegible]	0'					Samples have been taken
1020	21'					
1235	31'					
1530	40'					

REMARKS

Trip out casing and put in 40'. Pipe is welded and has diamonds at each joint.

ED-7803-052 (5-[illegible])

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1	3	8-1-58	40'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Wayne Bagh			65'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
[illegible]	40'					Samples have been taken
7:00	65'					

REMARKS

BD-7800-052 (5 - 57)

DRILLING LOG

PROJECT NO. AT (45-1) 1282

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1		8-4-58	65'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Henry Bach			88'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
[illegible]	65'					Samples have been taken.
1300	88'					

REMARKS

BD-7800-052 (5 - 57)

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1	3	8-5-58	88'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Harry Bach			115'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
0900	88'					Samples have been taken
1830	115'					

REMARKS

BD-7805-052 (5 - 57)

DRILLING LOG

PROJECT NO. AT (45-1)1282

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1	399-4-6	7-22-58	124'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Harry Bach			134'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
0900	124'			Gravel		Hauled water
1000	125'			Gravel	1000-1005	Sampled at 125'
1300	130'			Gravel	1300-1305	Sampled at 130'
1700	134'					Broke joint of 6" pipe; shut down for spear

REMARKS

ED-1300-052 (5-57)

DRILLING LOG

PROJECT NO. AT (45-1)1202

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1	399-4-6	7-30-58	
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					1300	Received fishing spear and started to pull
						casing.
					2000	Pulled 8" casing out and restarted well.
		1				

REMARKS

ED-7303-052 (5-57)

A8090 399-4-13

399-4-13 A8090

WELL ATTRIBUTES REPORT

FIELD ORDER NO				**LAST INSPECTION**	1/1/1801
WELL ID	A8090			**NORTHING**	
WELL NAME	399-4-13	**CONST DATE**		**EASTING**	
HOST WELL ID		**CONST DEPTH**		**ELEVATION**	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

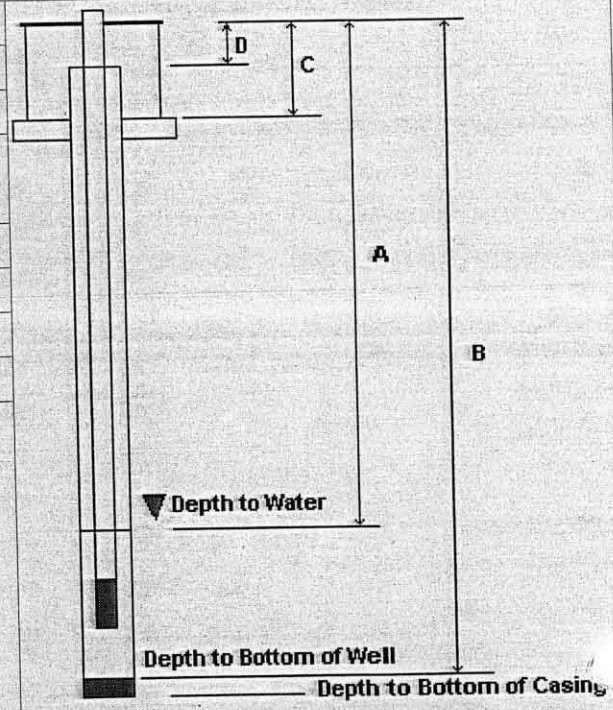
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8090			NORTHING	
WELL NAME	399-4-13	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

Query HWIS again

HWIS Interface - Survey Information - Horizontal

_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EAS
A8090	399-4-13	-- No information available --					

Query HWIS again

HWIS Interface - Well Construction Information - Construction Dates

_ID	WELL_NAME	CONST_DATE	CONST_DEPTH	CONST_DEPTH_UNITS
A8090	399-4-13	-- No information available --		

A8130 699-4-81

699-4-81 A8130

WELL ATTRIBUTES REPORT

FIELD ORDER NO				**LAST INSPECTION**	1/1/1801
WELL ID	**A8130**			**NORTHING**	
WELL NAME	**699-4-81**	**CONST DATE**		**EASTING**	
HOST WELL ID		**CONST DEPTH**		**ELEVATION**	

LAST INSPECTION INFORMATION		**CURRENT INSPECTION INFORMATION**	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR
LAST PUMP INFORMATION		**CURRENT PUMP INFORMATION**	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

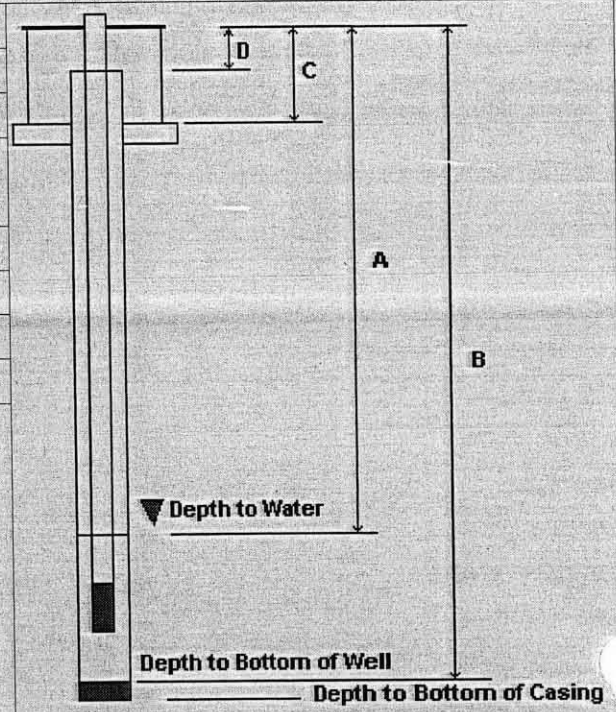
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8130			NORTHING	
WELL NAME	699-4-81	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A8130	699-4-81	05/12/1993		4	ft		

Query HWIS again

HWIS Interface - Well History Information - Decommisioning

WELL_ID	WELL_NAME	DECOMMISSIONED_DATE	COMMENTS	SOURCE	DATE_OF_SOURCE
A8130	699-4-81	07/22/1997	DECOMMISSIONED		

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A8130	699-4-81	DECOMMISSIONED	07/22/1997	HWIS 2006 to be admin decomm

699-17-25E A9833

WELL ATTRIBUTES REPORT

FIELD ORDER NO				**LAST INSPECTION**	1/1/1801
WELL ID	A9833			**NORTHING**	
WELL NAME	699-17-25E	**CONST DATE**		**EASTING**	
HOST WELL ID		**CONST DEPTH**		**ELEVATION**	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR
LAST PUMP INFORMATION		**CURRENT PUMP INFORMATION**	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

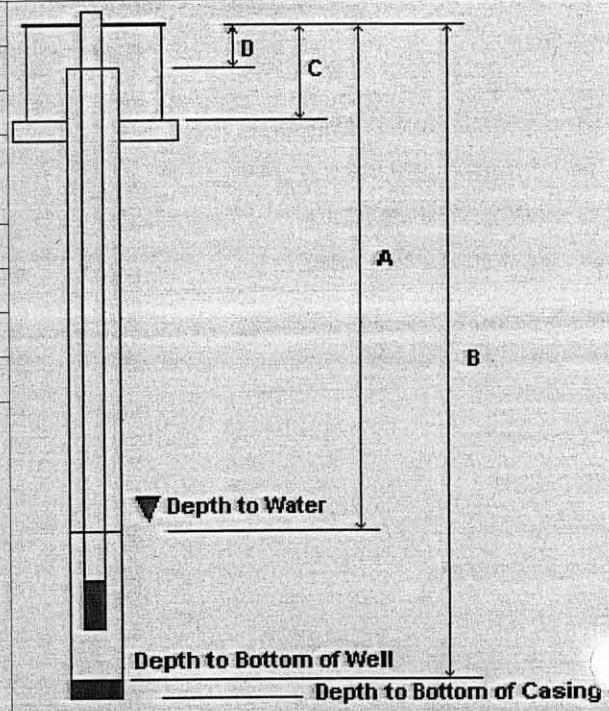
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9833			NORTHING	
WELL NAME	699-17-25E	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

Query HWIS again

HWIS Interface - Well History Information - Decommisioning

WELL_ID	WELL_NAME	DECOMMISSIONED_DATE	COMMENTS	SOURCE	DATE_OF_SOURCE
A9833	699-17-25E	07/22/1997	DECOMMISSIONED		

Westinghouse
Hanford Company

GENERAL

5.1.5

P.O. Box 1970 Richland, WA 99352

9453694

0012350

May 25, 1994

Washington State
Department of Ecology
P. O. Box 5128
Lacey, WA 98503-0210

Attention: Cashiering Unit

NOTICE OF INTENT TO CONSTRUCT WELLS ON THE HANFORD SITE

Enclosed you will find a Notice of Intent to Construct a Monitoring/Resource Protection Well form for five Vadose wells and three Groundwater Monitoring wells. The notification numbers for these eight wells are R19259, R19260, R19261, R19262, R19263, R19264, R19265 and R19266. These wells will be constructed on the Hanford Site owned by U.S. Department of Energy (ODE). Three of the enclosed notifications do not require the fee payment.

The current agreement reached between the DOE and the Washington State Department of Ecology is for applicable well construction fees to only be submitted for wells not constructed under the Environmental Restoration Program. Noted in the lower payment portion of the notifications is an explanation as to applicability of the fees. Required fees will be submitted quarterly from Westinghouse Hanford Company's purchasing organization. This purchase requisition will be in place by May 1, 1994, and will be retroactive to the effective date of the law.

Should you have any questions, please contact Mr. R. Szymarek of Ecology on (206) 407-6648.

Very truly yours,

M G Gardner

M. G. Gardner, Manager
Well Support Services

mai

Enclosures 5

MAY 1994
RECEIVED
EPIC

SA 7600-075

Notification Number R 19260

NOTICE OF INTENT TO CONSTRUCT A MONITORING/RESOURCE PROTECTION WELL

This form must be received by the Department of Ecology with the required fees three days before your well(s) is constructed. Complete both sides of this form. Submit one form for each job site. Submit one check or money order for each form, payable to the Department of Ecology, P.O. Box 5128, Lacey, WA 98503-0210. Do not send cash. Instructions for filling out this form are printed on the back.

1. PROPERTY OWNER: U.S. Department of Energy PHONE NO. (509) 376-2908
2. ADDRESS: 825 Jadwin Ave, Richland, WA. 99320
3. AGENT (If different from #1): Pacific Northwest Laboratories (PNL) PHONE NO. (509) 376-1964
4. ADDRESS: Sigma 5, MSIN K6-84, Richland, WA. 99352
5. JOB SITE/WELL LOCATION: NW ¼ of the NW ¼ Section 34 Township 12N Range 27E E.WM or W.WM (circle one)
6. STREET ADDRESS (if known): Well Name 699-17-25E
   Well I.D. A9833
7. LOCATION OF WELL(S): (please check county)

☐ ADAMS COUNTY	01-ERO	☐ GRAYS HARBOR COUNTY	14-SWR	☐ PIERCE COUNTY	27-SWR
☐ ASOTIN COUNTY	02-ERO	☐ ISLAND COUNTY	15-NWR	☐ SAN JUAN COUNTY	28-NWR
☒ BENTON COUNTY	03-CRO	☐ JEFFERSON COUNTY	16-SWR	☐ SKAGIT COUNTY	29-NWR
☐ CHELAN COUNTY	04-CRO	☐ KING COUNTY	17-NWR	☐ SKAMANIA COUNTY	30-SWR
☐ CLALLAM COUNTY	05-SWR	☐ KITSAP COUNTY	18-NWR	☐ SNOHOMISH COUNTY	31-NWR
☐ CLARK COUNTY	06-SWR	☐ KITTITAS COUNTY	19-CRO	☐ SPOKANE COUNTY	32-ERO
☐ COLUMBIA COUNTY	07-ERO	☐ KLICKITAT COUNTY	20-CRO	☐ STEVENS COUNTY	33-ERO
☐ COWLITZ COUNTY	08-SWR	☐ LEWIS COUNTY	21-SWR	☐ THURSTON COUNTY	34-SWR
☐ DOUGLAS COUNTY	09-CRO	☐ LINCOLN COUNTY	22-ERO	☐ WAHKIAKUM COUNTY	35-SWR
☐ FERRY COUNTY	10-ERO	☐ MASON COUNTY	23-SWR	☐ WALLA WALLA COUNTY	36-ERO
☐ FRANKLIN COUNTY	11-ERO	☐ OKANOGAN COUNTY	24-CRO	☐ WHATCOM COUNTY	37-NWR
☐ GARFIELD COUNTY	12-ERO	☐ PACIFIC COUNTY	25-SWR	☐ WHITMAN COUNTY	38-ERO
☐ GRANT COUNTY	13-ERO	☐ PEND OREILLE COUNTY	26-ERO	☐ YAKIMA COUNTY	39-CRO

8. AMOUNT ENCLOSED: Please fill out the portion below carefully. The return address label must contain the name and address of the person submitting the notification payment. This portion will be validated and returned to them as proof of payment. Send the entire form and check or money order payable to Dept. of Ecology, P.O. Box 5128, Lacey, WA 98503-0210. Do not send cash.

THIS NOTIFICATION NUMBER MUST BE PROVIDED TO YOUR WELL DRILLER: R 19260

AMOUNT OF PAYMENT: $40 per well Vadose Well-No Fee

X 1 Number of wells to be constructed on this job site

$ 0.00 TOTAL DUE and AMOUNT ENCLOSED

Agency Validation

CJ: _____

Date: _____

SUBMITTED BY (return address) ↓

NAME Martin Gardner

MAILING ADDRESS P.O. Box 1970/ N3-06

CITY Richland STATE WA. ZIP 99352

Continued on back →

ECY 040-22 (7/93)

9. WILL THE INTENDED WITHDRAWAL FROM THIS WELL SYSTEM EXCEED 5000 GALLONS PER DAY? (check one)
☐ Yes (Copy of Water Right Permit attached) ☒ No

10. APPROXIMATE WELL CONSTRUCTION START DATE: 5/23/94

APPROXIMATE WELL CONSTRUCTION END DATE: 6/3/94

11. WELL DRILLING COMPANY: KAISER ENGINEERS HANFORD PHONE: (509) 372-1711

12. WELL CONTRACTOR'S NAME: DAVE ROSSMAN DRILLER'S LICENSE # 1860

13. CONTRACTOR'S REGISTRATION NO #: KAISEEH 134 BM
(registration under Labor & Industries)

AGENCY USE

Your notification could not be validated. Please return with:

_____ Payment (see #8 for amount).

_____ Name/Address of property owner (see #1).

_____ Information in item(s) #5, #6, #9, #10.

INSTRUCTIONS

Items 1 and 2: *Property owner's name, daytime phone number and mailing address. Omission of this information may result in processing delays.*

Items 3 and 4: *Agent's name. If your driller, consultant or another person is acting as your agent and submitting the notification fee, please provide their name, address and daytime phone number. A payment receipt will be mailed to them.*

Items 5 and 6: *Please provide the Township, Range, Section, quarter section, and quarter/quarter section where the well will be located. This information can be found in your property legal description or the County Assessor's office. Also, if you have a street address for this property, please provide this information.*

Item 7: *Circle the county in which the well will be located.*

Item 8: *Please include the proper payment (check or money order only) payable to the Department of Ecology, P.O. Box 5128, Lacey, WA 98503-0210.*

Item 9: *If you intend to withdraw more than 5000 gallons of water per day from this well system, contact the Ecology Regional Office in the area where the well system is located for Water Right information.*

Items 10 - 13: *This information should be obtained from your driller.*

FOR ASSISTANCE:

CONTACT THE DEPARTMENT OF ECOLOGY REGIONAL OFFICE WHERE THE WELL IS LOCATED (see codes in Item #7).

Central Regional Office (CRO): (509) 575-2800
Eastern Regional Office (ERO): (509) 456-2926
Northwest Regional Office (NWR): (206) 649-7000
Southwest Regional Office (SWR): (206) 586-6380

Printed in U.S.A.

WELL ATTRIBUTES REPORT

D ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A9876			NORTHING	
ELL NAME	699-27-14	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
BING CONNECTION	ND*	TUBING CONNECTION	

552
CT well
1/1952

ND* - Not Documented

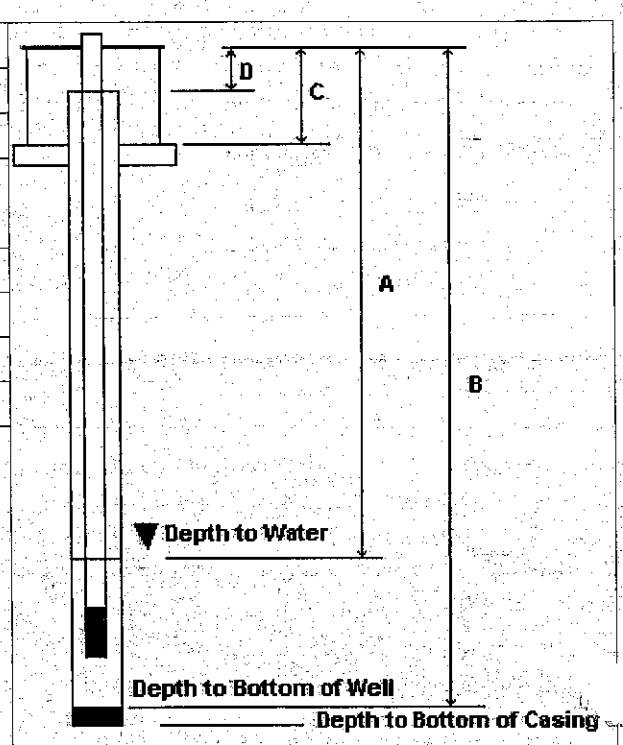
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9876			NORTHING	
WELL NAME	699-27-14	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 18, 1957	37'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			40'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0930-1100	Went to White Bluffs and hauled water
1100-1530	40'			Gravel		
					1540	Sampled 40'
					1600	Cobble rolled with casing -
						went after swedge

REMARKS

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 19, 1957	40'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			48'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0900-1100	Swedged casing and dressed bit
1100-1500	45'			Gravel		
					1505	Sampled 45'
					1530-1545	Welded casing (48' OH)
1700	48'			Gravel		

REMARKS

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 20, 1957	48'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			59'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
1100	50'			Gravel		
					1105	Sampled 50'
					1230-1400	Spent time moving shack to job
1415	55'			Gravel		
					1420	Sampled 55'
					1445-1500	Welded casing (56' OH)

REMARKS

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 21, 1957	59'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			70'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
1015	60'			Gravel		
					1020	Sampled 60'
					1115-1130	Welded casing (64' OH)
1500	65'			Gravel	1505	Sampled 65'
					1600-1610	Welded casing (72' OH)
1700	70'			Gravel		
					1705	Sampled 70'

REMARKS

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 22, 1957	70'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			76

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0930-1000	Hauled water
					1030-1130	Dressed bit
1130-1630	75'			Gravel	1635	Sampled 75'
1730	76'			Gravel		

REMARKS

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 23, 1957	76'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			89'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
1145	80'			Cemented sand and gravel		
					1150	Sampled 80'
					1230-1350	Dressed bit and put on jars
					1400-1415	Welded casing (88' OH)
1500	85'			Sand + Gravel		
					1505	Sampled 85'
1630	89'			Sand + Gravel		

REMARKS

Water at 80' (?)

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 24, 1957	89'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			97'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
0700-0730	90'			Cemented Sand and gravel		
					0731-0740	Sampled 90'
0740-1000	95'			Same as above		
					1000	Sampled 95'. Welded casing 96' OH
					1200	Dressed bit
1200-1500	97'			Same as above		

REMARKS

Drilling is extremely hard

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 26, 1957	97'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			123'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
0700-0945	100'			Sand-gravel Size 1/2' - 1"	0945-1000	Sampled 100'
1000-1045	105'			Clay-fine gravel		
					1045-1100	Sampled 105' - hit clay at 102'
					1100-1130	Weld casing 104' OH.
1130-1156	110'			Clay-fine gravel		
					1150-1200	Sampled 110'
1200-1240	115'			Same as above	1240-1300	Sampled 115' - weld casing 112' OH
					1300-1330	Dressed bit
1330-1430	120'			Same as above		
					1430-1445	Sampled 125'

REMARKS

BD--7800--05 (7) ASC-SE RICHLAND, WASH.

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 27, 1957	123'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			155'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0700-0745	Dress bit for Gentz on Rig No. 1
0800-0830	125'			Brown Clay and gravel	0830-0840	Weld casing 120' OH. Sampled 125'
0840-0905	130'			Brown clay	0905-~~1010~~ 0910	Sampled 130'
0910-0920	135'			Brown clay	0920-0930	Weld casing 128'OH. Sampled 135'
0930-0950	140'			Brown clay and gravel	0950-1000	Weld casing 136' OH. Sampled 140'
1000-1120	145'			Sand + silt	1120-1130	Sampled 145'
1130-1230	150'			Sand-silt-gravel		
					1230-1245	Weld casing 144' OH. Sampled 150'
					1330-1340	Weld casing 152' OH. Drove 4'
1340-1450	155'			Sand-silt-gravel		
					1450-1500	Sampled 155'. Finished driving casing.

REMARKS

The formation at 142' is quite hard.

The tan clay has peg gravel in it at 140'

The formation at 150' is a pale green color and unable to make more than 2' runs.

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 30, 1957	155'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			185'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0800-0845	Starting rig motor
					0845-0930	Cleaning mud out of hole filled up 20'
0930-0950	160'			Blue Shale-gravel		
					0950-1000	Sampled 160'
1000-1030	165'			Same as above	1030-1130	Sampled 165'-fixed welding machine - weld casing
						160' OH
1130-1150	170'			Same as above	1150-1200	Sampled 170'
1200-1230	175'			Same as above	1230-1245	Sampled 175'-weld casing 168' OH
1245-1315	180'			Same as above	1315-1330	Sampled 180' - weld casing 175' OH
1330-1530	185'			Same as above		
					1530-1540	Weld casing 182' OH - sampled 185'
					1540-1600	Drove casing - hard driving.

REMARKS

Water level 60'

Blue Shale - 165'

More gravel and less shale - drilling harder 180'

Brown

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	December 31, 1957	185'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			205'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0800-0900	Servicing rig and starting same
0900-1100	190'			Blue shale - gravel		
					1100-1145	Sampled 190' - dressed bit
1145-1245	195'			Blue shale - gravel 1"		
					1245-1300	Sampled 195' - welding casing 190' OH
1300-1415	200'			Blue shale - gravel 1" - 1-1/2"		
					1415-1430	Sampled 200' - welding casing 198' OH
1430-1550	205'			Same as above		
					1550-1600	Sampled 205'

REMARKS

BD-7600-05 (7) AEC-GE RICHLAND, WASH.

Bisson

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	January 2, 1958	205'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			225'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0745-0900	Hauling supplies - starting machine and cleaning
						out well - 30' of cutting in hole.
0900-1000	210'			Clay-gravel		
					1000-1030	Sampled 210' - weld casing 206' OH
					1030-1100	Thawing out welder radiator.
1100-1145	215'			Sand-gravel	1145-1155	Sampled 215'
1155-1300	220'			Sand-gravel		
					1300-1330	Sampled 220' - weld casing 214' OH
					1330-1400	Dressed bit
1400-1540	225'			Sand-gravel	1540-1545	Sampled 225'.

REMARKS

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	January 3, 1958	225'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			230'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0930-1100	Getting equipment started
1100-1200	230'			Gravel		
					1200-1230	Sampled 230' - weld casing - 222' OH
					1240	Shut down-drivehead broke

REMARKS

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	January 6, 1958	230'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			237'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0800	Rebuilding drivehead. Dressed bit.
					1245	Hole stayed open - pipe driving better
1245-1430	235'			Gravel		
					1430-1445	Sampled 235' Weld casing 230' OH
					1445-1505	Drove 8' casing. Hole was clean after driving
1505-	237'				1600	Formation changed at ~~237~~ 237' - blue clay and gravel.

REMARKS

SD-7800-05 (17) AEC-GE RICHLAND, WASH.

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	January 7, 1958	237'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			255'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0730-0800	Starting machine and servicing
0800-0830	240'			Blue-grey clay with gravel	0830-0900	Sampled 240' - weld casing 238' OH
0900-0945	245'			Yellow clay, gravel	0945-1045	Sampled 245' - dressed bit
1045-1200	250'			Same as above		
					1200-1230	Sampled 250', weld casing 244' OH
1230-1315	255'			Same as above		
					1315-1330	Sampled 255', weld casing 252' OH
					1445-1530	Drivehead broke again. Broke tools down and repairing head.

REMARKS

Yellow clay at 242 - easy drilling.

Beard

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	January 8, 1958	255'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			277'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0745-0845	Finished repairing drivehead. Started machine,
						clean out hole.
0845-0950	260'			Clay - gravel	0950-1000	Sampled 260'
1000-1130	265'			Sand, silt, and gravel	1130-1200	Sampled 265', weld casing 260'
1200-1330	270'			Same as above	1330-1400	Sampled 270', weld casing 268'
1400-1520	275'			Same as above	1520-1530	Sampled 275'
1530-1545	275'			Same as above	1545-1550	Bailed hole clean.

REMARKS

Hard drilling from 265' - makes good mud.

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	January 9, 1958	277'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Richards			300'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0745-0800	Started and serviced machine
0800-0900	280'			Sand, silt, gravel		
					0900-0910	Sampled 280' - weld casing 276' OH
0					0910-0950	Cleaned hole
					0950-1025	Dressed bit
1025-1215	285'			Same as above		
					1215-1225	Sampled 285', dressed bit
1225-1400	290'			Same as above		
					1400-1415	Sampled 290' - weld casing 284' OH
1615	295'			Same as above	1625	Sampled 295'
1700	300'			Same as above	1700	

REMARKS

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	January 10, 1958	300'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			317'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0845-0900	Dressed bit
					0900-0930	Welded casing (292' OH) and sampled 300'
1100	305'			Sand and gravel		
					1100-1130	Welded casing (300' OH) and sampled 305'
1415	310'			Cemented gravel slow	1420	Sampled 310'
					1500-1600	Welded casing (308' OH) casing driving very slowly
1630	315'			Sand	1635	Sampled 315'

REMARKS

This formation is in layers of gravel and sand 3' to 5' thick.

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	January 11, 1958	317'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			337'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0945-1020	Started rig and dressed bit.
1215	320'			Cemented sand and gravel	1220	Sampled 320'
1400	325'			Same as above		
					1405	Sampled 325'
1630	330'			Same as above		
					1635	Sampled 330'
1730	335'			Same as above		
					1735	Sampled 335'

REMARKS

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	January 12, 1958	335'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			338'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					1300-1330	Broke off rope sock to change drive heads.
					1330-1600	Cleaned out hole - welded and drove casing
						(328' OH)
1730	338'			Cemented sand and gravel		

REMARKS

BD-7800-RS AEC-GE RICHLAND, WASH.

Dawn

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	699-27-14	January 13, 1958	338'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			350'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0800-0900	Dressed bit
					0900-0940	Reamed and cleaned out hole
1005	340'			Cemented sand + gravel		
					1010	Sampled 340'
1120	345'			Same as above	1125	Sampled 345'
	347'			Blue clay and gravel		
1210	350'			Same as above		
					1215	Sampled 350'
					1230-1730	Welding and driving pipe - pipe drove 9', but could not drive it further. Went after under-reamer bit.

REMARKS

Brown

DRILLING LOG

PROJECT NO. _____

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
2	299-27-14	January 14, 1958	
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Swain			

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
					0800-0900	Dressed bit - reamed and tried to drive pipe -
						would not go.
					0930-1000	Put reamer bit on
					1030-1330	Reamed and drove pipe to 340'
					1400-1700	Perforated casing two cuts per foot from 150 to
						50 feet - started to move.
						Well 352' - casing 340'

REMARKS

A8675 699-43-1

699-43-1 A8675

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8675			NORTHING	
WELL NAME	699-43-1	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR
LAST PUMP INFORMATION		**CURRENT PUMP INFORMATION**	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

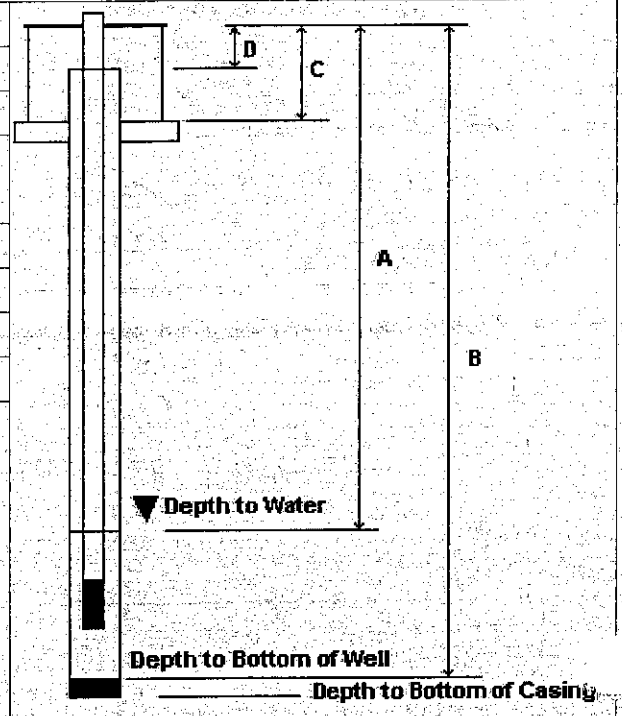
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8675			NORTHING	
WELL NAME	699-43-1	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A8675	699-43-1	09/30/1980		65	ft		

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	DIAM	TOP	BOT	COMMENTS / PREVIOUS WELL NAMES
699-42-40C		42414.00	546.16	390.0	S	6.0	306.0	390.0	10 OR 20 SLOT SCREEN
GW		-40181.00	8.0	390.0					
B			4/82	143.0					
699-42-41	136365.60		567.30	155.2	S	4.0	134.2	155.2	
GW	577335.60		4.0	155.2					
H			8/91	142.0					
699-42-41B				124.7					DRILLED 3/91; BACKFILLED WITH
AB			6.0	120.2					GB; HOLE PLUG IN BOTTOM
			3/91						
699-42-42A		42004.[illegible]	[illegible]	314.0	P	3.0	174.0	301.0	DEEPENED 1977
GW		-42012.[illegible]		[illegible]					
B									699-42-39, 699-42-42, DB-8
699-42-42AO		42004							REMOVED
AB		-42012							
									699-42-42O
699-42-42AP		42004							REMOVED
AB		-42012							
									699-42-42P
699-42-42AQ		42004.00	602.56					0	REMOVED
AB		-42012.00	1.5	239.0					
				189.0					699-42-42Q
699-42-42B		42472.90	583.23	250.0	S	4.0	192.4	202.7	SCREEN 192.4-202.7'
GW		-42301.30	4.0	202.7	S	8.0	182.9	203.5	
H			10/88	160.8					BP-10
699-42-88		42314.00	644.55	701.0					BWIP WELL RRL-5; ABANDONED
AB		-88454.00	6.0	557.0					
			10/81						RRL-5
699-43-1				65.0					CASING REMOVED
AB			6.0						
			9/80	29.0					
699-43-2		43364.00	405.72	390.0					
SW		-1506.00	6.0						
			12/80						GOLDER 117
699-43-3		43285.00	419.64	87.5	P	6.0	65.0	87.5	
GW		-2745.00	6.0	87.5					
S			7/79	75.0					

Hanford Wells
PNL-8800 UC-903
M.A.Chamness & J.K. Merz
August 1993
Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

DRILL LOG

BY	RIG	WELL	COMPUTER NUMBER	PROJECT OR ORDER NO.
Mary Butena	699-4	1		Battelle
DATE 9-10-80	22-W	DEPTH 0 TO 19		SUBCONTRACT NO.

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
				moved to Job site and set		
				up rig drilled to 19ft.		
	0-15			brown sand		
	15-19			large cobbels, gravel		
				$11^{10\frac{1}{4}}$ and 10 of 6inch pipe		
				total casing $21^{10\frac{1}{4}}$	7½hrs	

REMARKS:

A-6 21 (1-74) D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDI S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE HDING WATER

DRILL LOG

By	Rig	Well	Computer Number	Project or W[illegible]ber No.
Mark Bultena	22-W	4-1		Battelle
Date: 9-11-80		Depth: 19 to 31		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	Lithologic Description (% each grain size, color, roundness, caliche, etc.)	Time	Drilling Comments
	19-25			large cobbels, boulders, gravel		
	25-31			silty tan clay		
				added 6' of pipe		
				total pipe 27 10"		
					8hrs	

Remarks:

A-6L 21 (1-74) D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIU[illegible] S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE [illegible]DING WATER

DRILL LOG

BY	RIG	WELL NUME	COMPUTER NUMBER	PROJECT OR WORK NO.
Marv Butena	22-W	43-1		Battelle
DATE 9-12-80		DEPTH 31 TO 65		SUBCONTRACT NO.

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
	31-64			silty tan clay		
	64-65			coarse rust colored sand begining to show up in clay		
				total pipe 27'		
					8hrs	
				Water Level 29 ft.		

REMARKS:

A-6000-021 (1-74) D-DRIVE BARREL M-HAND TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE W-WATER

DRILL LOG

By	Rig	Well No.	Computer Number	Project or Work Order No.
Mary Bultena	22-W	43		Battelle
Date 9-15-80		Depth		Subcontract No.
		To		

Total Casing	Depth	Drill Method	Wet/Dry Sample	Lithologic Description (% each grain size, color, roundness, caliche, etc.)	Time	Drilling Comments
				pulled casing out of ground and backfilled hole broke down rig to move	2½ hrs	

REMARKS:

A-600 (1-74) D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ING WATER

699-43-1
Location: 12/28-5E1
Casing Elevation:
Cable tool, drilled by Bultena of Hatch Drilling Company for PNL, 1980, ground-water monitoring borehole

Material (1)	Thickness	Depth
Brown sand	15	15
Large cobbles, gravel	4	19
Large cobbles, boulders, gravel	6	25
Silty, tan clay	39	64
Coarse, rust-colored sand, beginning to show up in clay	1	65

Catalog of Borehole Descriptive Logs from the 600 Area, Hanford Site
K.R. Fecht, M.A. Chamness and J.T. Lillie
Site Department, Basalt Waste Isolation Project
November 1984
Prepared for the US DOE under Contract DE-AC06-77RL01030
Rockwell International Aerospace Division, Rockwell Hanford Operation, Richland, WA

A8708 699-44-39A

699-44-39A A8708

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A8708			NORTHING	
WELL NAME	699-44-39A	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
ING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

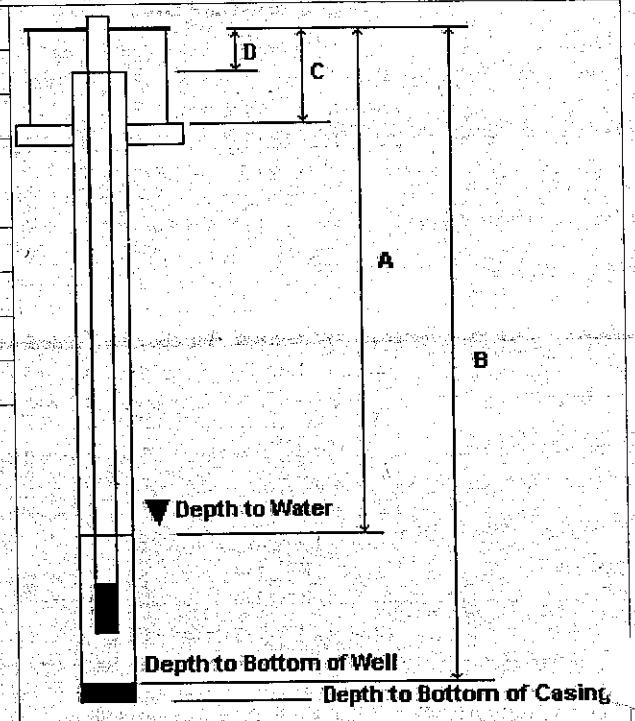
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
LL ID	A8708			NORTHING	
..ELL NAME	699-44-39A	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

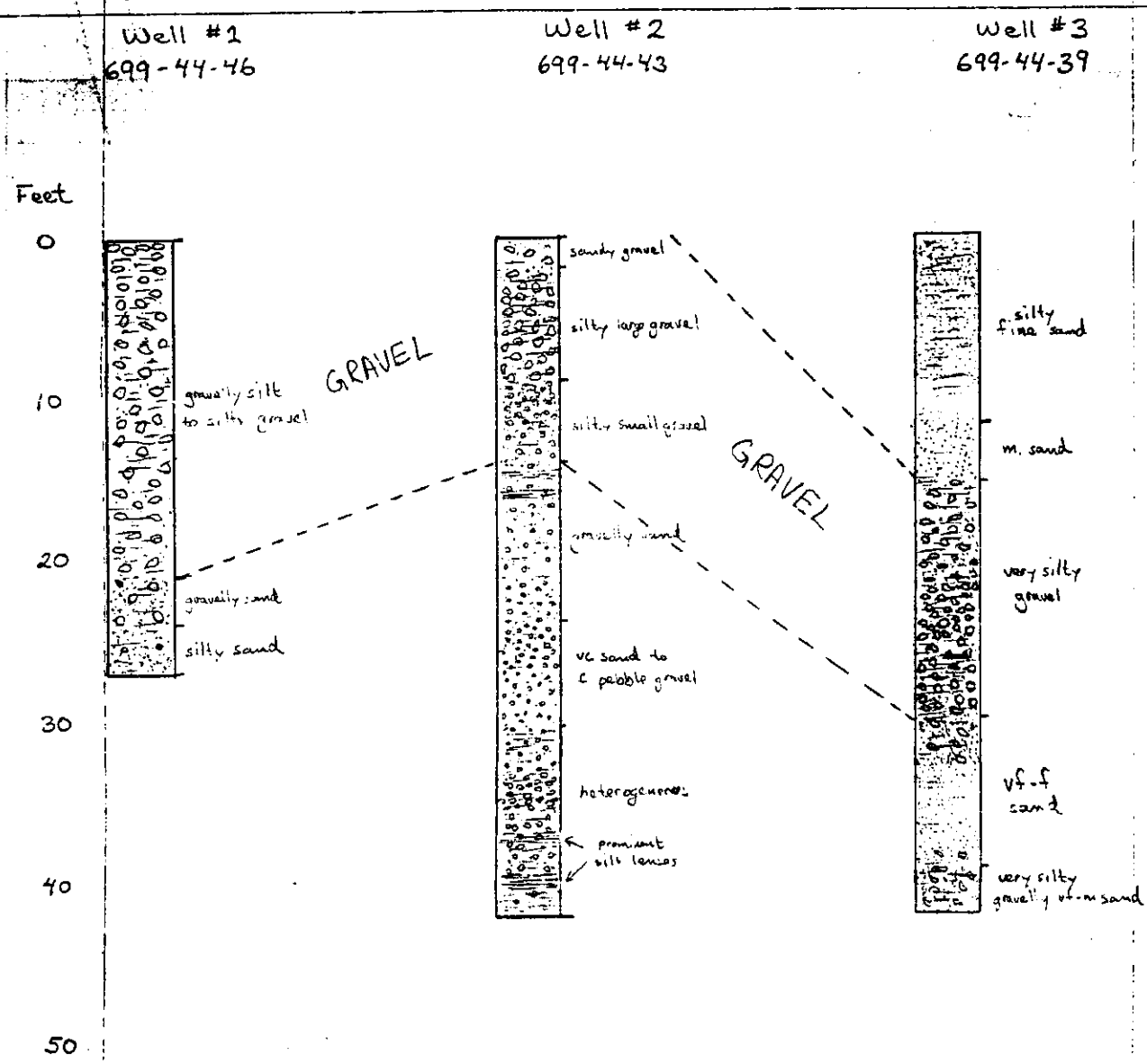
6/15/2005

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A8708	699-44-39A	09/30/1985		42	ft		

Forth-Lobe B - Pond Stratigraphy



Note: Well #3 is topographically higher than either Well #1 or #2, which are close to the same elevation.

708

DRILL LOG

BY	RIG	WELL NUMBER	COMPUTER NUMBER	PROJECT OR WORK ORDER NO.
J Serkowski		699-14-39	B-Pond	
DATE 9/3/85		DEPTH 0' TO 18'	Percolation Well #3	SUBCONTRACT NO.

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
	0'-3'	core barrel	dry	silty to very silty f-m sand w/some thin silt layers		
	3'-6'	"	"	very silty f-m sand w/many thin silt or vfs lenses		
	6'-9'	"	slightly moist	same as above but slightly moist		
	9'-12'	"	slightly moist	slightly silty fine sand w/numerous silt lenses (up to 2" thick)		
	12'-15'	"	slightly moist	silty and siltless medium basaltic (black) sand [redacted], with a few coarse pebbles; 12'-13' similar to above		
	15'-18'	"	dry	entering gravel; very silty f-m sand to very silty and sandy pebble gravel; overall: silt 40%, f-ms 40%, gravel 20%		casing got pulled up and hole caved so gravel contact obscured

REMARKS:

A-6000-021 (1-74)

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ____STANDING WATER

DRILL LOG	BY J Serkowski	RIG	WELL NUMBER 699-14-39	COMPUTER NUMBER	PROJECT OR WORK ORDER NO.
	DATE 9/4/85		DEPTH 18' TO		SUBCONTRACT NO.

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
	18'-21'	core barrel	dry	very silty and sandy pebble gravel; gravel from f-vc pebble, sand mostly medium: silt 35%, vf-fs 10%, ms 20%, c-vcs 5%, gravel 30%		
	21'-24'	"	dry	very silty and slightly sandy gravel; gravel up to small cobble size; sand mostly m-c: silt 35%, sand 20%, gravel 45%		
	24'-27'	"	dry	similar to above but more silt and less gravel: silt 40%, sand 20%, gravel 40%		
	27'-30'	"	"	same as above		
	30'-33'	"	"	slightly silty to silty, gravelly vf-f sand, some of gravel may be sloughed from above; silt 15%, vf-fs 55%, m-vcs 10% gravel 20%		
	33'-36'	"	"	slightly silty vf-f sand w/some caliche horizons		

REMARKS:

A-6000-021 (1-74) D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ____STANDING WATER

DRILL LOG	BY J Serkowski	RIG	WELL NUMBER 699-, 4-39	COMPUTER NUMBER	PROJECT OR WORK NO.
	DATE 9/4/85		DEPTH 36' TO 42'		SUBCONTRACT NO.

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
	36'-39'	core barrel	dry	same as above but no caliche and a few f-m pebbles		
	39'-42'	"	"	very silty and gravelly vf-m sand : gravel mostly f-m pebbles : silt 30%, vf-fs 30%, ms 10%, c-vcs 5% gravel 25%		Bottom of hole
				Companion hole 699-44-43 & 46-csg pulled at hole completion. RFB 6/08/06		

REMARKS:

A-6000-021 (1-/4) D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ____ STANDING WATER

A8710 699-44-43A

699-44-43A A8710

WELL ATTRIBUTES REPORT

'LD ORDER NO				LAST INSPECTION	1/1/1801
,ELL ID	A8710			NORTHING	
WELL NAME	699-44-43A	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
SING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

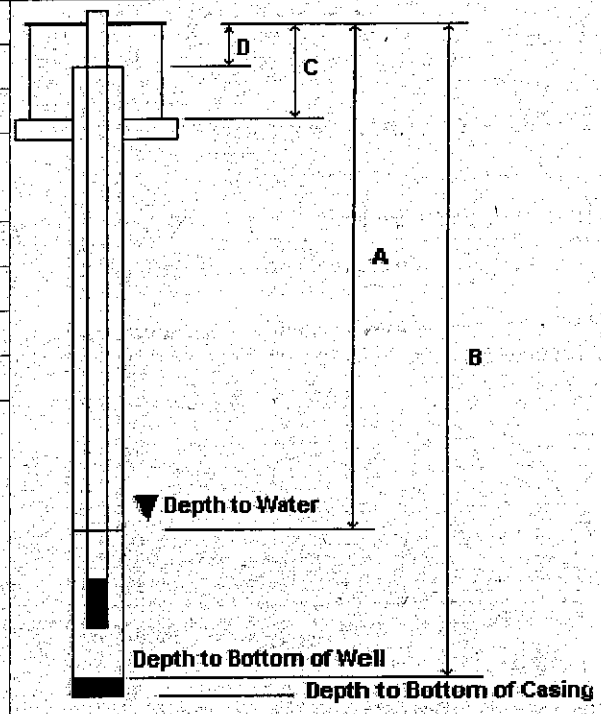
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8710			NORTHING	
WELL NAME	699-44-43A	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

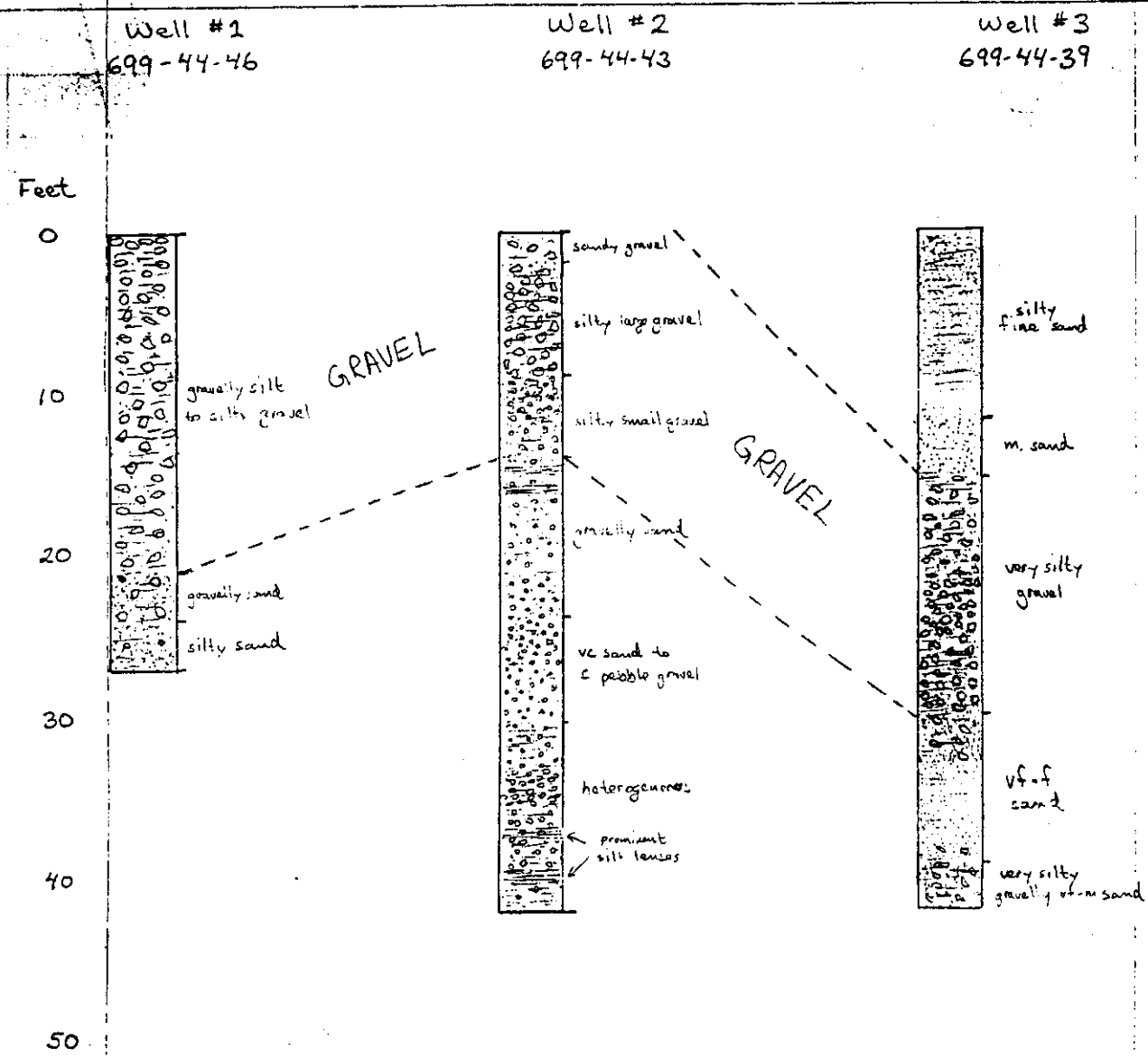
6/15/2005

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A8710	699-44-43A	08/31/1985		42	ft		

Forth-Lobe B - Pond Stratigraphy



Note: Well #3 is topographically higher than either Well #1 or #2, which are close to the same elevation.

Fig 11.6

DRILL LOG	By David	Rig	Well Number 44-43	Computer Number	Project or Work Order No. CT 5548
	Date 8-27-85		Depth 0 To 27'		Subcontract No. S.A. 51778

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
27'				#1 Drilled from 0' to 27'		0 to 15' cobbles
				Made 5" welds	8hrs.	c gravels vf. sand
						a little silt
						15' to 18' silt f. sand
						v.few gravel small
						18 to 27' f. to c sand
						smaller gravels
				#6	8hrs.	
				Total	8hrs	

REMARKS:

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG	By DAVID	Rig	Well Number 44-43	Computer Number	Project or Work Order No. CT5549
	Date 8-28-85		Depth 27 To 36'		Subcontract No. S.A.S.1778

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
43'	36			#1 Drilled from 27' to 36'		27-36' c-f sand
				went to 200 west pick pump rig		gravels
				went to well # E32-1 fish out from		
				well 1½" ABS. pipe and pump & wire		
				set rig down and moved back to		
				200 west went to pickup fittings		
				1½ ABS. and 1 small bottle of propane	8hrs	
				#6	4hrs.	
				Total	8hrs	

REMARKS:

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-5000-021 (5-85)

DRILL LOG	By David	Rig	Well Number 44-43	Computer Number	Project or Work Order No. CT55
	Date 8-29-85		Depth To		Subcontract No. S.A.S.1778

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
43	42			#1 Stop by well #E 32-1 and		from 36' to 38'
				redo fitting on 1½" P.B.S. pipe		c to f. sand & fine
				went to well # 44-43 - Drilled		gravels
				from 36' to 42' finished Drilling		from 38' to 42'
				pull 6" casing pour 1 sack of		silt f. sand
				bentonite at bottom of hole		
				moved pipe and trailer to next		
				well site	8hrs	
				#6	5 hrs	
				Total	8hrs	

REMARKS:

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

LL LOG

BY: JA Serkowski

DATE: 8/27/85

699-4-43

DEPTH: 0' TO 12'

B-Pond Stratigraphy Well #2

SUBCONTRACT NO.

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
	0'-3'	core barrel	dry	slightly silty sandy gravel; gravel is mostly m pebble to cobble in size, sand is very basaltic m sand; silt 5%, vf-fs 5%, ms 40%, cs-vcs 5%, gravel 45%		4" core barrel in 6" casing
	3'-6'	"	dry	very silty gravel; gravel is vf-c pebble, smaller gravel is basaltic, larger is more felsic; silt 40%, sand 20%, gravel 40%		
	6'-9'	"	moist	very silty gravel; gravel is from pebble to cobble; in general similar to above but moisture content much higher; samples have lots of broken up pebbles and cobbles due to the drilling		
	9'-12'	"	moist	very silty fine gravel; higher percentage of grain sizes in the cs to f pebble range; gravel is also getting broken up by core barrel but this affects mostly the c-vc pebbles and cobbles		

REMARKS:

A-6000-021 (1

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE

NDING WATER

DRILL LOG

BY	RIG	WELL NUMBER	COMPUTER NUMBER	PROJECT OR WORK ORDER NO.
J Serkowski		699 - 24-43		SUBCONTRACT NO.
DATE 8/27/85		DEPTH 12' to 27		

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
	12'-15'	core barrel	moist	very silty and gravelly sand; layers of fairly silt-free m sand at around 14'; gravel mostly small, sand is m-vc, silt decreases somewhat with depth		
	15'-18'	"	"	gravelly and slightly silty f-m sand w/ some silt lenses; less gravel than above; silt 10%, vf-fs 35%, ms 35%, c-vcs 5%, gravel 15%; gravel mostly f-c pebble; silt layers very moist		
	18'-21'	"	dry	silty and gravelly f-m sand; much drier than above; silt 15%, vf-fs 30%, ms 30%, c-vcs 15%, gravel (vf-m pebble) 10%		
	21'-24'	"	slightly moist	slightly silty and gravelly vf-f sand; gravel is mostly vf-f angular basaltic pebbles w/some m felsic pebbles		
	24'-27'	"	dry	silty cs to vf pebble gravel grains are mostly basaltic; silt 15%, vf-fs 15%, ms 10%, c-vcs 25% gravel 35%		

REMARKS:

A-6000-021 (1-74) D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ____ STANDING WATER

DRILL LOG	BY J Serkowski	RIG	WELL NUMBER 699 - 1Y-43	COMPUTER NUMBER	PROJECT OR WORK ORDER NO.
	DATE 8/28/85		DEPTH 27' TO 42'		SUBCONTRACT NO.

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
	27'-30'	Core barrel	slightly moist	silty c-vc sand to vf pebble gravel; gravel up to m pebble, small gravel & coarse sand mostly basaltic; silt 15%, vf-fs 15%, ms 10%, c-vcs 35%, gravel 25%		
	30'-33'	"	dry	similar to above but siltier (20%) and ~~larger~~ higher percentage of larger gravel (ie less smaller gravel)		
	33'-36'	"	dry	very silty pebble gravel with some sand, very inhomogeneous ~~silt 30%, sand 20%~~ silt 30%, sand 25%, gravel 45%		
	8/29/85					
	36'-39'	"	dry	very silty m-vc sand to sandy silt to silty vf-f pebble gravel, very inhomogeneous; several 2"-3" thick layers of fairly pure moist silt; a few vc pebbles; in general: silt 40%, sand 35% gravel 25%		
	39'-42'	"	mostly dry	very heterogeneous: layers of 2"-3" silt (moist), silty cs around 41'-42', a slightly moist silty ms (40'-41'), vf-f pebbles scattered throughout: silt 35%, sand 50% gravel 15%		Bottom of hole

REMARKS:

A-6000-021 (1-74) D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ____STANDING WATER

A8711 699-44-46

699-44-46 A8711

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A8711			NORTHING	
ELL NAME	699-44-46	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
BING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

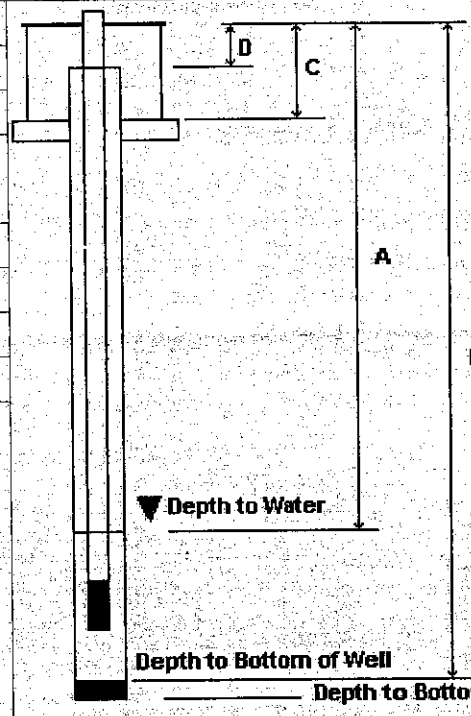
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
'ELL ID	A8711			NORTHING	
ELL NAME	699-44-46	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

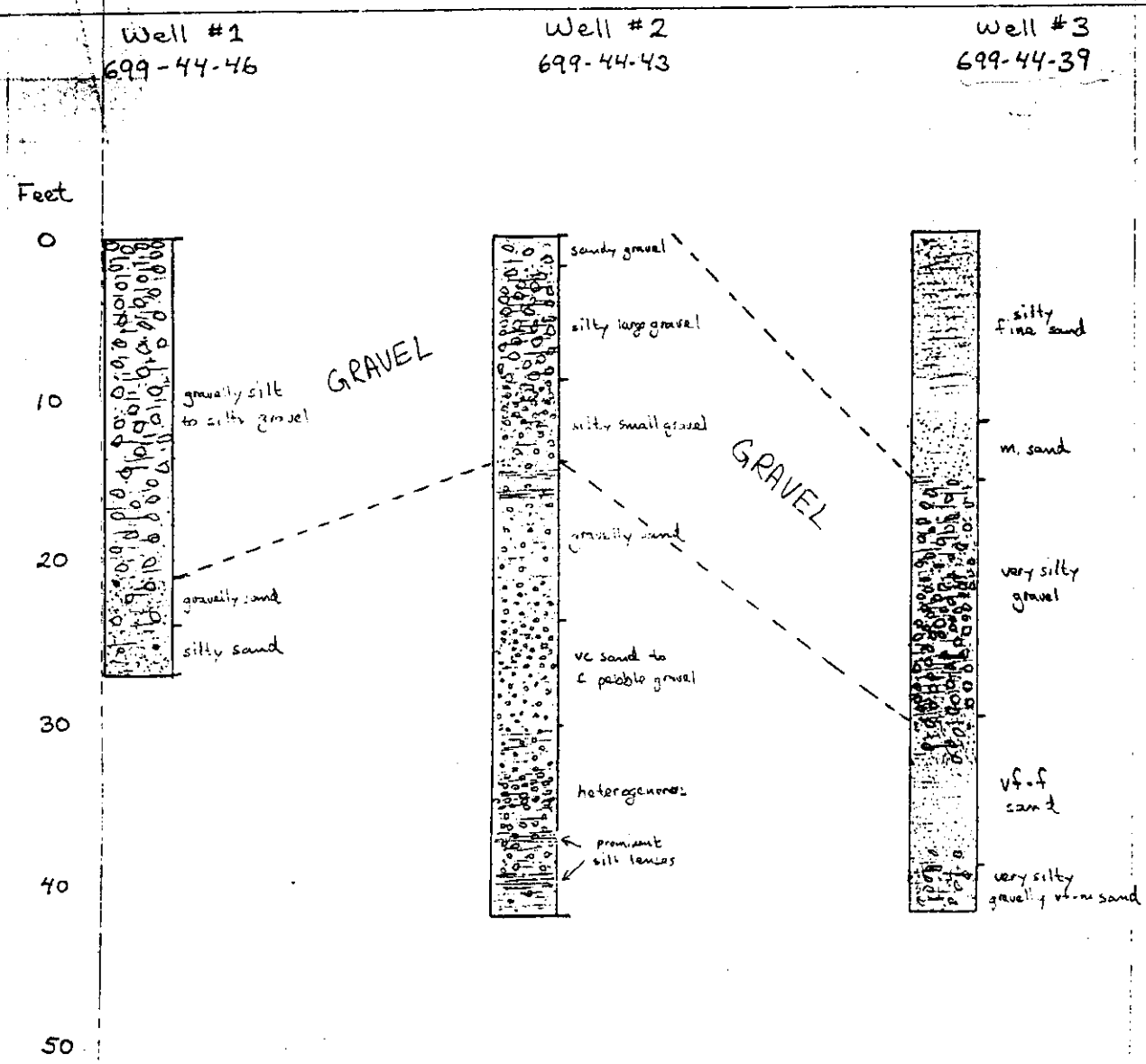
6/15/2005

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A8711	699-44-46	08/31/1985		29	ft		

Forth-Lobe B - Pond Stratigraphy



Note: Well #3 is topographically higher than either Well #1 or #2, which are close to the same elevation.

no. 11

DRILL LOG	By David	Rig	Well Number 689-44-46	Computer Number	Project or Work Order No. CT 5547
	Date 8-19-85		Depth To		Subcontract No. J.A.J. 1778

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
				#1 set rig down pick up thing around		
				site moved rig by B pond got		
				stuck before getting to well site		
				went back moved propane tank		
				and trailer with pipe		
				#4	1	
				Total	4hrs	

REMARKS:

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG	By David	Rig	Well Number 695-44-46	Computer Number	Project or Work Order No. CT 5547
	Date 8-20-85		Depth 0 To 5		Subcontract No. S.A.S. 1778

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
				#7 Pulled drill rig out moved		0 to 5 cobbles
				to well site set up make up		v little sand
				drilling jars started drilling had		gravels
				to change drive from 5" to 4"	8 hrs	
				#	2 hrs	
				Total 8 hrs		

REMARKS:

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG

By	Rig	Well Number	Computer Number	Project or Work Order No.
David		699-44-46		04 5547
Date 8-21-85		Depth 5' To 18'		Subcontract No. J.A.S. 1778

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
7				#1 Drilled from 5' to 18		5' to 18' f. sand
5'10"				welded 5'10" & 4' of 6" casing		cobbles c. grx
4'				went in to get parts for drill rig		
16'10"				Truck motor	5hrs	
				#6	4hrs	
				Total 5hrs		

REMARKS:

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Wat.

A-6000-021

DRILL LOG	By David	Rig	Well Number 699-44-46	Computer Number	Project or Work Order No. CT5547
	Date 8-22-85		Depth 18' To 24'		Subcontract No. S.A.S.1778

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
				#1 drilled from 18' to 24'		18-24 F.C. San
				weld 4' 4" S 510" of 6" casing		c. gravels
				went to 200 west pick up pump rig		
				moved to 200 east set up went		
				fishing for PVC pipe spump E32-1	8 hrs.	
				#6	4 hrs	
				Total	8 hrs	

REMARKS:

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5

DRILL LOG	By Dnoin	Rig	Well Number 698-44-46	Computer Number	Project or Work Order No. CT 5547
	Date 8-23-85		Depth 24' To 30'		Subcontract No. DOJ 1779

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
	24'			Rocks sand silt		
	30'			24' to 30' sand.		

REMARKS:

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

6000-021 (5-85)

DRILL LOG	By David	Rig	Well Number 44-46	Computer Number	Project or Work Order No. CT 55 4B
	Date 8-26-85		Depth To		Subcontract No. SAJ.1778

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
				#1 Pour 1 sack of bentonite bottom hole pulled 6" casing out, loaded on trailer, Rig down broke drilling jars lay down, pickup things move rig, move trailer with 6" casing propane trailer set rig up make up drilling jars did not do any drilling because of a lock in & lock out in 300 west	8hrs.	
				#6	4hrs.	
				Total	8hrs.	

REMARKS:

D Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-071 (5-85)

.LL LOG

BY JA Serkowski | RIG | HOLE NO. 699 1-46 | B-Pond Stratigraphy Well #1

DATE 8/20/85 | DEPTH 0' TO 15' | SUBCONTRACT NO.

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
	0-3'	D	moist	vc pebble and cobble gravel with m-vc sand, slightly silty; gravel is rounded 50% basalt; sand is angular; silt 10%, sand 30%, pebbles 40%, cobbles 20%	1:30	top ½ foot (?) appears to have been reworked by heavy equipment
	8/21/85					
	3'-6'	D	slightly moist	gravelly and sandy silt; sand is mostly m-c, gravel mostly f-c pebbles; silt 45%, vf-fs 10%, ms 10%, cs 5%, vcs 5%, gravel 25%	9:00	4" drive barrel installed
	6'-9'	D	dry	gravelly silt; gravel is vf-vc pebbles; silt 50%, vf-fs 5%, ms 10%, c-vcs 10%, gravel 25%	9:30	
	9'-12'	D	dry	same as above; breakdown of just the gravels: vf-f pebble 35%, m pebble 30%, c pebble 20%, vc pebble 15%	9:45	
	12'-15'	D	dry	gravelly silt; gravel somewhat larger than above with some cobbles; silt 50%, vf-fs 5% ms 10%, c-vcs 5%, gravel 30%	10:45	

REMARKS:

A-6000-021 D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ___ NDING WATER

LL LOG

BY: JA Serkowski

DATE: 8/21/85

69d 1-46

DEPTH: 15' TO 29'

SUBCONTRACT NO.

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
	15'-18'	D	dry	sandy and gravelly silt; less silt and more sand than above	11:00	
	18'-21'	D	dry	sandy and gravelly silt -- same as above; silt 40%, vf-fs 10%, ms 10%, c-vcs 10%, gravel 30%		
	8/22/85					
	21'-24'	D	dry	very silty and gravelly coarse to very coarse sand to a sandy and gravelly silt; gravel is mostly f-m pebble but large pebbles occur; in general: silt 25%, vf-fs 10%, ms 5% cs 10% vcs 15% gravel 25%		
	24'-27'	D	dry	out of the large gravels beginning with this sample: very silty m-vc sand with some fine and vf pebble gravel; silt 20% vf-fs 10% ms 15% cs 20% vcs 20%, gravel 15%; some moist silt layers at 25'		
	27'-29'	D	dry	c-vs sand, silty; caliche; less gravel and silt than above		Bottom of well

REMARKS:

A-6000-021 (1)

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE

NDING WATER

A9918 699-49-71A

699-49-71A A9918

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A9918			NORTHING	
WELL NAME	699-49-71A	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR
LAST PUMP INFORMATION		**CURRENT PUMP INFORMATION**	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
ING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

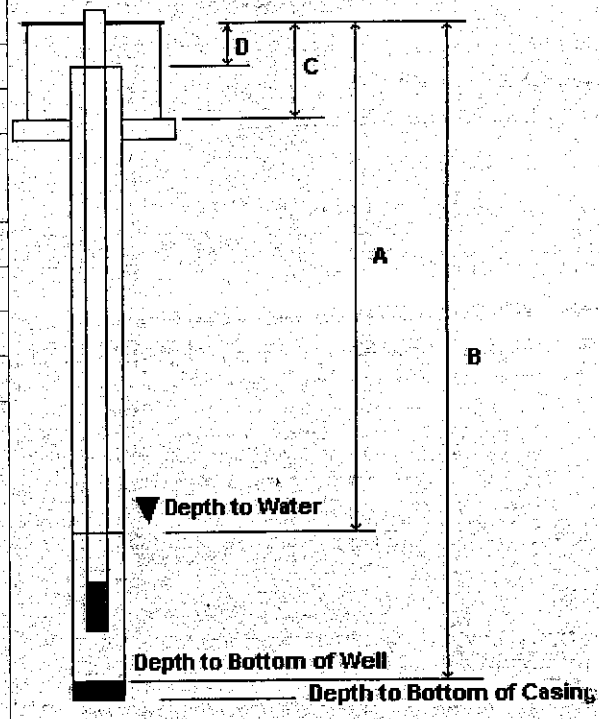
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
VELL ID	A9918			NORTHING	
WELL NAME	699-49-71A	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

699-49-71 A RPB 6/04

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED-3074-17703 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 6/14/93 WELL NO. 1 # of 7 # RIG NO. 5306 LOCATION: 600W DRILLER: Howell, Hutchins

START DEPTH: _____ END DEPTH: _____ FOOTAGE: _____ R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Over Pack Drums, Move Drill + Equip. To Next Drill Site

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOURS
DRILLING:			SAMPLING:	
SAFETY MEETINGS:			W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
SERVICE RIG:			W.O. LOGGERS:	
/.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:			STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER: Over pack	4
W.O. MAN HAUL:		ENDING TIME	OTHER: Move Equip.	4
OTHER:			TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HOURS
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

No Drilling

APPROVAL: [signature]

Tuesday (699-49-71A.

ER386

Hutchings

DRILL LOG	By Howell / Date 6/15/93	Rig 5306	Well Number 1 # of 7 #	Depth 0' To 7'	Computer Number	Project or Work Order No. ED-3474/11770 3 / Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 10.47	0'	D.B.	D	Arrive on site	7.00	
				Set up Rig, string up		
				Tools, Bevel pipe, Set		
				up Zone + Equip	11.30	Lunch
					12.00	
				Wait on Kick off Meet.	12.30	
				Return to Zone +	1.00	
				Start Drilling		
				0' 3' = Fine Brown		
				sand + Top Soil		
				3' To 7' Gravel + Cobbles		
	7'	D.B.	D	Brown sand	3.30	Go Home
				No Air in Bore Hole		
				No water used		
				Well Guard was used		

REMARKS:
The drill site marked and where the drill rig is set up to drill is the approved location.

LA Doremus 6/15/93

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-88)

699-49-71A

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED3024/1220 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 6/15/93 WELL NO. 1 of 2 RIG NO. 5306 LOCATION: 200W DRILLER: Howell / Hutchins

START DEPTH: 0 END DEPTH: 2 FOOTAGE: 2 R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Set up site and Rig String up Tools Beveled pipe Waited on Kick off meeting Drilling Sampling

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [X]

BIT SIZE: 12" MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOURS
DRILLING:	3	200	SAMPLING:	
Kick off ~~SAFETY~~ MEETINGS:	.5		W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
SERVICE RIG:			W.O. LOGGERS:	
W.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:			STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER:	
W.O. MAN HAUL:		ENDING TIME	OTHER:	
OTHER: Set Site & Rig Beveled pipe	4.5	330	TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HOURS
RUN:	12"	10.42	3	B. PULL:			
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

No water
No Air in Bore hole
Used well guard on Tools

APPROVAL: [signature]

699-49-71A

6

DRILL LOG	By Howell	Rig 5306	Well Number #1 of 7	Computer Number	Project or Work Order ED-3074-17203
	Date 9-16-93		Depth 7' To 25'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 10.47	7'	DB	D	Arrive on site + Service Rig	7.00	
				Resume Drilling	7.30	
				Take 10' Sample	8.00	
	10'	DB	D	9' To 12' Light Brown Sand (Dry)		
				+ Small Gravel		
10.60				Weld on Casing	9.30	
				Resume Drilling		
21.07				12' To 15' Cobbles + Sand		
				(Brown) Dry		
	15'	DB	D	Take 15' Sample	10.30	
				Resume Drilling	11.30	Lunch
				Resume Drilling	12.00	
	20'	DB	D	Take 20' Sample	12.30	
				Fine Brown Sand (Dry)		
9.83				Weld on Casing	1.30	
30.90				Resume Drilling	2.30	
	25'			Ready for 25' Sample	3.30	Go Home
				Paper Work		

REMARKS: No Air in Bore Hole
No Water used
No Well Guard used

David Sacco

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ___ Standing Water

A-6000-021 (5-85)

699-49-71A

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO ED-3094 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 6/1/93 WELL NO. 1 of 2 RIG NO. 530 LOCATION: 200W1 DRILLER: Howell Heitchmis

START DEPTH: 7 END DEPTH: 25 FOOTAGE: 18 R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Serviced Rig Drilled + Sampled Welded

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [X]

BIT SIZE: 10" MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOU
DRILLING:	5	1200	SAMPLING:	
SAFETY MEETINGS:			W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
SERVICE RIG:	.5		W.O. LOGGERS:	
W.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:			STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER:	
W.O. MAN HAUL:		ENDING TIME	OTHER:	
OTHER: Welding	2.5	3:30	TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HO
RUN:	12"	20'	5	B. PULL:			
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

NO Air In Bore Hole
NO Well guard Used
NO water Used

APPROVAL: [signature]

6. 699-49-71A

DRILL LOG	By Hutchins Howell	Rig 5306	Well Number #1 of 7	Computer Number	Project or Work Order No. ED-3074-17703
	Date 9/17/93		Depth 25' To 30'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 30.90	25'	D.B.	D	Arrive on site & Service Rig	7:00	
				Resume Drilling	7:30	
				Take 25' Sample		
				Fine Light Brown Sand		
				Resume Drilling To 30'		
	30'	D.B.	D	T.D. Take Sample	9:30	
				Wait on Monitor Equip	11:30	Lunch
					12:00	
				Monitor Equip Arrived	12:30	
				Change Tool's, Bad Short		
				Stem & Jars, Replace		
				make Longer Knocker		
				Head-Weld on	3:00	
				Paper Work	3:30	Go Home
				Total Depth - 30'		

REMARKS: No Air in Bore Hole
No Water used
Well Guard was used

David Howell

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

699-49-71A

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED3074-17703 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 6/7/93 WELL NO. 10 RIG NO. 5306 LOCATION: 200W DRILLER: Howell Hutchins

START DEPTH: 25' END DEPTH: 30' TD FOOTAGE: 5 R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Drilling Sample T.D. Bore Hole
W.O. Monitor Equip Changed Tools Made longer Knockerhead
welded

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [X]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS
DRILLING:	2
SAFETY MEETINGS:	
BAIL HOLE:	
SERVICE RIG:	1/2
W.O. FUEL / SERVICE:	
W.O. SITE SAFETY OFFICER	
W.O. GEOLOGIST:	
W.O. HPT:	
LOST TIME Q.A.	
W.O. DIRECTION:	
MECH. BREAKDOWN:	
W.O. MAN HAUL:	
OTHER: W.O. Monitor Equip	1 1/2

STARTING TIME: 700

ENDING TIME: 330

ACTIVITY	HOURS
~~SAMPLING~~: welding	1/2
W.O. SAMPLERS:	
LOGGING:	
W.O. LOGGERS:	
DECON EQUIP.	
DECON CSG.	
STEAM CLEANING:	
W.O. WATER:	
W.O. TOOLS / MATERIAL:	
W.O. SAFETY EQUIP:	
OTHER: changed Tool	
OTHER: Build Knockerhead	3 1/2
TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS
RUN:			
RUN:			
RUN:			
RUN S.S.			

	CSG. SIZE	FEET	HOURS
B. PULL:			
B. PULL:			
B. PULL:			
B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:
NO Water Used
Well grouted used
NO Air in Bore Hole

APPROVAL: [signature]

699-49-71A

DRILL LOG

By	Rig	Well Number	Computer Number	Project or Work Order No.
Hutchins / Howdell	5306	#1 of 7		ED-3074-17103
Date 6/18/93		Depth 30' To 15'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Rounoness, Caliche, Etc.	Time	Drilling Comments
30.90	30			Arrive on Site	200	
				Wait on G.E.O. To Set Monitor		
				Equip & Back pull	500	
				Set monitor Equip &		
				Add Sand	8.30	
				Broke Knocker Head		
				Cut off & Repair	9.30	
	18'			Back pull 12' Cut	10.30	
				off Knocker Head Clean		
				up & Ready To Weld on	11.30	Lunch
				Weld on Knocker Head	12.00	
				& Resume Back pull		
				Add more Sand		
15.90	15'			pull 3		
				Go To Mo. Safty Meet	1.30	
					3.30	Go Home
				David Sarc		

REMARKS: NO Air In Bore Hole
NO Water Used
NO Well Guard used
15"x12" Removed

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

699-49-71A

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED-3074 17203 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 6/18/93 WELL NO. #1 of 7 RIG NO. 530 L LOCATION: 200W DRILLER: Howell & Hutchins

START DEPTH: 30 END DEPTH: _____ FOOTAGE: _____ R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Waited on GeoTo.SeT Monitor Equipment
Back pulled SeT Monitor Equipment Added Sand
Cut & weld Monthly Safety

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOURS
DRILLING:		7:00	SAMPLING:	
Monthly SAFETY MEETINGS:	2		W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
SERVICE RIG:			W.O. LOGGERS:	
W.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:	1		STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER: Cut & Weld	1
W.O. MAN HAUL:		ENDING TIME	OTHER: Add Sand	.5
OTHER: Back pulled	3.5	3:30	TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HOURS
RUN:				B. PULL:	12"	13'	3.5
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

APPROVAL: [signature]

6 699-49-71A

DRILL LOG

By: Hutchins / Howell
Date: 7/21/93
Rig: 5306
Well Number: 1 # of 7
Depth: 15' To 0'
Computer Number:
Project or Work Order: E.D-3074-17703
Subcontract No.:

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 15.90	15'			Arrive on site	7:00	Back pull
				Wait on G.E.O.	8:00	12" Casing
				Lightning Shut Down		
				Go To / Slab yard		
				Return To Job	10:30	
				Resume Back pull		
				Rewold ~~Drive~~ G.H. Knocker Head	11:00	
	12'			Back pull To 8'	11:30	Tunels
					12:00	
				Return To Site + Cut of		
				10' x 12" Casing	12:30	
				fill Well Back To 3' from		
				~~Ground~~ Level + pull Last		
	10'			10' of Casing + Fill To Top	2:30	
				Move Rig To Next Hole	3:00	
				Paper Work	3:30	Go Home
				Complete #1		

REMARKS:

Dave Lane

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

699-49-71A

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED-3074-1720 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 6/2/93 WELL NO. _____ RIG NO. 5306 LOCATION: 200W DRILLER: Hauck Hutchins

START DEPTH: _____ END DEPTH: _____ FOOTAGE: _____ R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Wait on Qcy, lighting. Shut Down
go To slab yard, Bewl Casing in yard
Return To Job Back pull Complete Well Tear Rig
Down Move Rig

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

ACTIVITY	HOURS
DRILLING:	
SAFETY MEETINGS:	
BAIL HOLE:	
SERVICE RIG:	
W.O. FUEL / SERVICE:	
W.O. SITE SAFETY OFFICER	
W.O. GEOLOGIST:	1
W.O. HPT:	
LOST TIME Q.A.	
W.O. DIRECTION:	
MECH. BREAKDOWN:	
W.O. MAN HAUL:	
OTHER: Back pull	2

STARTING TIME _____

ENDING TIME _____

ACTIVITY	HOURS
SAMPLING: Move Rig	1
W.O. SAMPLERS:	
LOGGING:	
W.O. LOGGERS:	
DECON EQUIP.	
DECON CSG.	
STEAM CLEANING:	
W.O. WATER:	
W.O. TOOLS / MATERIAL:	
W.O. SAFETY EQUIP:	
OTHER: SSG Shutdown, Lighting Slab yard	3
OTHER: Weld	1
TOTAL SHIFT HOURS (8):	

	CSG. SIZE	FEET	HOURS
RUN:			
RUN:			
RUN:			
RUN S.S.			

	CSG. SIZE	FEET	HOURS
B. PULL:	12"	15	2
B. PULL:			
B. PULL:			
B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

APPROVAL: David Steve

A9919 699-49-71B

699-49-71B A9919

WELL ATTRIBUTES REPORT

LD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A9919			NORTHING	
WELL NAME	699-49-71B	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
UIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
ING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

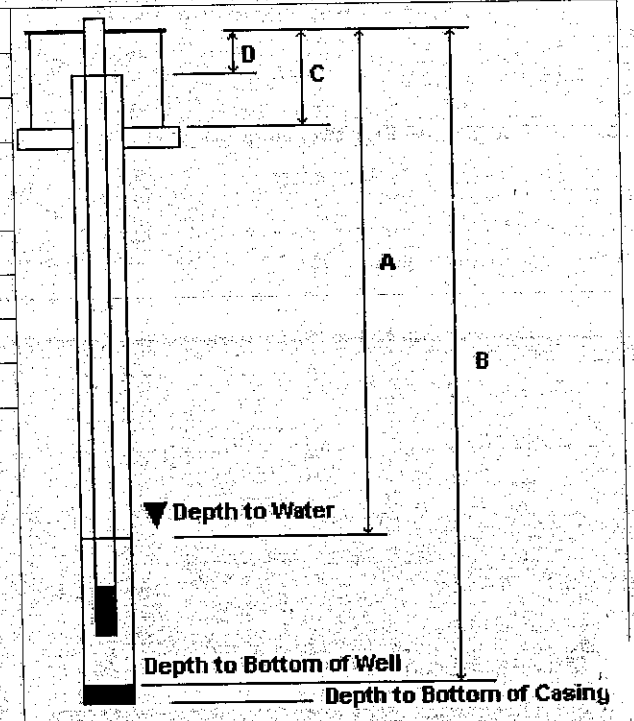
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9919			NORTHING	
WELL NAME	699-49-71B	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

Hutchins 699-49-71-B

DRILL LOG	By Howell	Rig 3306	Well Number #2 of 7#	Computer Number	Project or Work Order No. ED-3079-17705
	Date 6-22-93		Depth 0' To 20'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
				The location of well # 699-49-71B is correctly positioned. Jennifer B. Topping	7.00	
				Finish setting up Rig +		
				Restringing Tools	8.30	
				Start Drilling		
	5'	D.B.	D	Take 5' Sample	9.00	Sand + Gravel
12" 10.44				Set 1 Joint of Casing		
				+ Resume Drilling		
				Take 10' Sample	11.30	Lunch
				Cobbles + Gravel Brown Sand	12.00	
10.47	10'	D.B.	D	Weld on 10.47	1.30	
20.91'				Resume Drilling		
				Take 15' Sample		
				Fine Brown Sand + S. Gravel	2.00	
				Take 20' Sample	3.00	
				Fine Brown Sand, very Little		
				Gravel		
				Paper Work	3.30	Go Home

REMARKS: No Air in Bore Hole
No Water used
Well Guard Was used

David Sarez

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO: ED-3074-17763 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 6/22/93 WELL NO. 2 of 7 RIG NO. 5306 LOCATION: Lab DRILLER: Clowell & Hutchins

START DEPTH: _____ END DEPTH: _____ FOOTAGE: _____ R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Finish Setting up Rig & Restring Tools
Take 5' Samples, Welding, Drilling

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [X]

BIT SIZE: 12" MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOURS
DRILLING:	5	700	SAMPLING:	.30
SAFETY MEETINGS:			W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
SERVICE RIG:			W.O. LOGGERS:	
W.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:			STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER: Welding	1
W.O. MAN HAUL:		ENDING TIME	OTHER:	
OTHER: Set up Rig & String Tools & Service	1.30	3.30	TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HOURS
RUN:	12"	10.44	2.5	B. PULL:			
RUN:	12"	10.47	2.5	B. PULL:			
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

APPROVAL: [signature]

Hutchins

DRILL LOG	By Howell	Rig 5306	Well Number 699-49-71-B	Computer Number	Project or Work Order No. ED-3074-12203
	Date 6/23/93		Depth 30' To		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 20.91	20'	D.B.	D	Arrive on Site + Service Rig	7.00	
				Weld on 12" Casing	7.30	
				Resume Drilling	8.30	
9.68	25'	D.B	D	Take 25' Sample		
				Fine Brown Sand Some Gravel	9.30	
				Resume Drilling		
30.59	30'	D.B.	D	Take 30' Sample	11.00	
				Fine Brown Sand, Gravel		
				Weld on Knocker Head	11.30	Lunch
				Complete B Hole To 30'	12.30	
				Break of Jar's + D.B.		
				Respool Cable		
				Ready To Set Cupons		
				+ P.V.C. pipe	1.30	
				Wait on G.E.O. from		
				P.N.L.	2.30	
				Pre Test for Setting Cupons	3.00	
				Paper Work	3.30	Go Home

REMARKS: No Air in Bore Hole
No water used
Well Guard was used

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

699-49-71B

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. 6D-3074-17703 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE 6/23/93 WELL NO. 5306 RIG NO. 5306 LOCATION: 600 DRILLER: Howell & Hutchins

START DEPTH: 20' END DEPTH: 30' FOOTAGE: 10' R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Service Rig, Welding, Sample Every 5' Complete To 30', Break Down Tools Weld on New Knocker Head, Pre Test for lowering Casing

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [X]

BIT SIZE: 12" MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOURS
DRILLING:	3	7.00	SAMPLING:	.30
SAFETY MEETINGS:			W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
SERVICE RIG:	.30		W.O. LOGGERS:	
W.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:	1.		STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER: Welding	1.30
W.O. MAN HAUL:		ENDING TIME	OTHER: Break Down Tools	1
OTHER: Weld on Knocker	.30	3.30	TOTAL SHIFT HOURS (8):	8

	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HOURS
RUN:	12"	9.68	3	B. PULL:			
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

APPROVAL: [signature]

B7 14

Hutchins

DRILL LOG	By Howell	Rig 5306	Well Number 699-49-71-B	Computer Number	Project or Work Order ED-3074-17703
	Date 6/24/93		Depth 30' To 10'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 30.59	30			Arrive on site Service	700	
				Rig	7.30	
				Wait for Rig inspection	10.00	
				Inspect Rig ok for		
				Back pull	10.30	
				place 1st coupon in		
				well Back pull To Top		
				of Coupon & Add fill &		
20.59	20'			Back pull 10'	11.30	Lunch
				Resume Work, weld	12.00	
				on Knocker Head	1.00	
				Wait on Coupons		
				Coupons Arrived	1.30	
	10'			Add fill & Coupon		
				pull To 10' End of		
				Day	3.30	Go Home
				David Davis		

REMARKS:
NO Air in Bore Hole
NO Water used
NO Well Guard used

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED. 3074-17703 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE 1/24/93 WELL NO. 699-49-31-B RIG NO. 5306 LOCATION: 600 DRILLER: Howell - Hutchins

START DEPTH: 30 END DEPTH: _____ FOOTAGE: _____ R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Service Rig place Coupons in Bore Hole, Add Fill & Back pull Wait on Coupons, Weld on Knocker

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOU
DRILLING: Back pull	2.30		SAMPLING:	
SAFETY MEETINGS:			W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
SERVICE RIG:	.30		W.O. LOGGERS:	
W.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:			STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER: Wait on Coupon	1.30
W.O. MAN HAUL:		ENDING TIME	OTHER: Welding	.30
OTHER: Wait on Rig Inspection	.3		TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HC
RUN:				B. PULL:	12"	10'	1.30
RUN:				B. PULL:	12"	10'	1
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

Back pull 12"

APPROVAL: [signature]

Olson & Hutchins

DRILL LOG	By: Howell	Rig: 5306	Well Number: 699-49-71-B	Computer Number	Project or Work Order: ED-3074-17703
	Date: 6/25/93		Depth: 10' To 0'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 10.58	9'			Arrive on site Service Rig	7.00	
				Set Last 2 Coupons	7.30	
				10' & 5' Resume Back		
				pull Add Fill	8.00	
	0'			Complete -B- Hole		
				Bevel Casing & Get Ready		
				To Move Rig		
					11.30	
				Set up Rig Move	12.00	
				Trailers & Welder		
				Restring Tools		
12 10.40	4'			Set Casing Drill 4'	3.30	
				Complete the Day		

REMARKS: No air in Bore Hole
No water used
No Well Guard Used

D. Howell

A-6000-021 (5-85)

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ___ Standing Water

699-49-71C A9920

A9920 699-49-71C

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A9920			NORTHING	
WELL NAME	699-49-71C	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
BING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

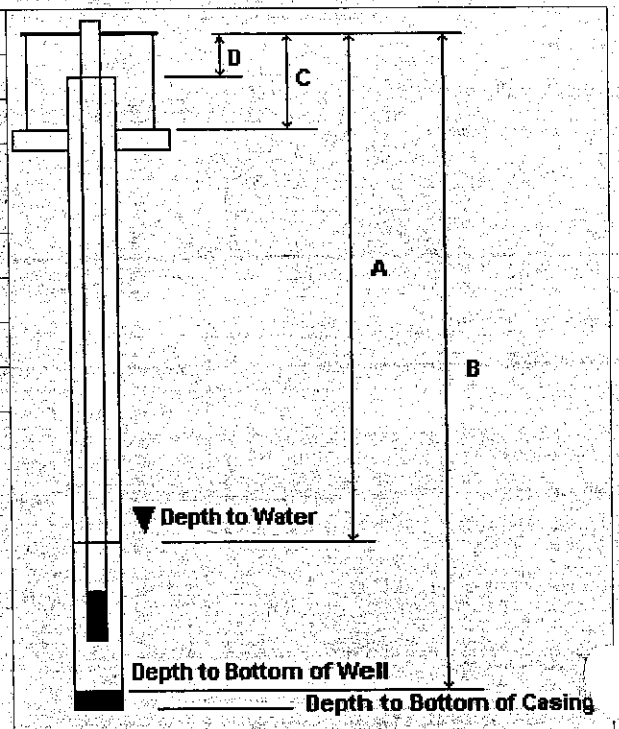
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9920			NORTHING	
WELL NAME	699-49-71C	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. 60-3074-17203 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 6/28/93 WELL NO. 699-49-71-C RIG NO. 5306 LOCATION: 600 DRILLER: Howell - Hutchins

START DEPTH: 0' END DEPTH: 4' FOOTAGE: 4' R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Set Coupons on Well - B Add Sill Backfill Complete B, Tear Down Rig Move To New Sight Set Up, Drill

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [X]

BIT SIZE: 12 MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOURS
DRILLING:	1.30	2.00	~~SAMPLING~~: Resting Tools	1
SAFETY MEETINGS:			W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
~~SERVICE RIG~~:	.30		W.O. LOGGERS:	
W.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:			STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER: Set Coupons	1
W.O. MAN HAUL:		ENDING TIME	OTHER: Backfill	
OTHER: Move & Setup	4	3 30	TOTAL SHIFT HOURS (8):	8

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	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HOURS
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

Complete B Well

APPROVAL: [signature]

Hutchins

DRILL LOG	By HOWELL	Rig 5306	Well Number ~~[illegible]~~ 699.49-71-C	Computer Number	Project or Work Order ED-3074-17203
	Date 6/28/93		Depth 4' To		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12' 10.40	4	DB	D	Arrive on site	7.00	
				Resume Drilling		
	5	D.B.	D	Take 5' sample	7.30	
				Sand + Gravel & Large Cobbles		
				Resume Drilling	8.00	
	10'	DB	D	Take 10' sample		
				Gravel Sand & Large Cobbles	9.30	
9.62				Weld on Casing		
20.02				Resume Drilling	10.30	
				Sand + Large Gravel/Cobbles	11.30	
				Resume Drilling	12.00	
	15	DB	D	Take 15' sample		
				Course Brown Sand + Small Gravel	1.30	
10.40				Weld on Casing		
	20'	D-B	D	Resume Drilling + Sample	2.30	
20.42	24'			Sand & Fine Same Gravel	3.30	Go Home

REMARKS: No Air in Bore Hole
No Water used
No Well Guard used

David Lowell

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ___ Standing Water

A-6000-021 (5-85)

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED-3074-17703 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE 6/28/93 WELL NO. 699-49-71-C RIG NO 5306 LOCATION: 600 DRILLER: Lowell - Hutchins

START DEPTH: 4 END DEPTH: 20' FOOTAGE: 16 R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Serviced Rig Drilled & Sampled weld on Casing

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS
DRILLING:	5.5
SAFETY MEETINGS:	
BAIL HOLE:	
SERVICE RIG:	
W.O. FUEL / SERVICE:	
W.O. SITE SAFETY OFFICER	
W.O. GEOLOGIST:	
W.O. HPT:	
LOST TIME Q.A.	
W.O. DIRECTION:	
MECH. BREAKDOWN:	
W.O. MAN HAUL:	
OTHER: Weld Casing	2

STARTING TIME: 7:00

ENDING TIME: 3:30

ACTIVITY	HOURS
SAMPLING:	.30
W.O. SAMPLERS:	
LOGGING:	
W.O. LOGGERS:	
DECON EQUIP.	
DECON CSG.	
STEAM CLEANING:	
W.O. WATER:	
W.O. TOOLS / MATERIAL:	
W.O. SAFETY EQUIP:	
OTHER:	
OTHER:	
TOTAL SHIFT HOURS (8):	8

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	CSG. SIZE	FEET	HOURS
RUN:	10"	9.62'	
RUN:	12"	10.40	
RUN:			
RUN S.S.			

	CSG. SIZE	FEET	HOURS
B. PULL:			
B. PULL:			
B. PULL:			
B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

No Air In Bore hole
No water used
No Well guard used

APPROVAL: David Lewis

Hutchins KEW

DRILL LOG	By Howell	Rig 5306	Well Number 699-47-71-C	Computer Number	Project or Work Order EO-3074 .102
	Date 6/29/93		Depth 24' To 30'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 30.42	24'	D.B.		Arrive on site, Service Rig	2.00	
	25'	D.B.	D	Resume Drilling & Take 25'	7.00	
				Sample - B Sand, Course		
	30'	D.B.	D	Drill To 30' Take Sample		
				B. Sand, Course		
				Complete C Hole		
				Call for Rig Inspection	8.30	
				Complete Rig Inspection	9.00	Break Down
				Set 1st Coupon Add Fill	9.30	Tools
Back Pull	30'					
	20'			Back pull To 20'		
				Add 2nd Coupon Add Fill	11.30	Lunch
				Weld on Knocker Head	12.00	
				& pull To 10'	1.30	
	10'			Add Coupon & Fill Dirt		
				Back pull To 5'		
				Add Coupon & Fill Dirt		
	0'			Complete C Hole -	3.00	
				Paper Work	3.30	Go Home

REMARKS: No Air in Bore Hole
No water used
Well Guard was used Back pull 30' of 12"

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

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DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED-3094-17703 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 4/29/93 WELL NO. 89-39-71-a RIG NO. 5306 LOCATION: 600 DRILLER: Howell Hutchins

START DEPTH: 24' END DEPTH: 30 FOOTAGE: 6' R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Service Rig, Drill To 30'
Inspect Rig for Back pull, Set Coupons
Add Fill Dirt, Back pull 30' 12" Casing
Complete C Hole

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

ACTIVITY	HOURS
DRILLING:	5
SAFETY MEETINGS:	
BAIL HOLE:	
SERVICE RIG:	.30
W.O. FUEL / SERVICE:	
W.O. SITE SAFETY OFFICER	
W.O. GEOLOGIST:	
W.O. HPT:	
LOST TIME Q.A.	
W.O. DIRECTION:	
MECH. BREAKDOWN:	
W.O. MAN HAUL:	
OTHER: Backpull	

STARTING TIME 7.00

ENDING TIME 3.30

ACTIVITY	HOURS
SAMPLING: Adding Coupons + Back fill	1.30
W.O. SAMPLERS:	
LOGGING:	
W.O. LOGGERS:	
DECON EQUIP.	
DECON CSG.	
STEAM CLEANING:	
W.O. WATER:	
W.O. TOOLS / MATERIAL:	
W.O. SAFETY EQUIP:	
OTHER: Welding	1
OTHER:	
TOTAL SHIFT HOURS (8):	8

	CSG. SIZE	FEET	HOURS
RUN:	12"	6'	1
RUN:			
RUN:			
RUN:			
RUN S.S.			

	CSG. SIZE	FEET	HOURS
B. PULL:	12"	10.40	1.30
B. PULL:	12"	9.68	1.20
B. PULL:	12"	10.40	1
B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

Complete C Hole

APPROVAL: _____

KEW

A9921 699-49-71D

699-49-71D A9921

(EW

DRILL LOG	By Howell	Rig 5306	Well Number 699-49-71-D	Computer Number	Project or Work Order ED-3074-11703
	Date 6/30/93		Depth 0' To 6'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 10.33'	0'	DB	D	699-49-71D is marked at the correct position Jerry L Tapling	200	
				Arrive on site - Service Rig		
				Bevel 12" Casing, Change		
				Tools, Tear Down Rig, Move		
				Set Rig up, Restring Tools		
				Move Trailer's + Welder To		
				New site	10.30	
				Re Same Drilling, 0' To 3'		Set 10.33 Casing + Shoe
				Top Soil + Gravel,		
	6'	DB	D	4' To 6' Gravel, Sand, Cobbles	1430	Lunch
					12.00	
				D.O.E. Shut Down		
				Go To Slab yard		
					3.30	Go Home

REMARKS: No AiR in Bore Hole
No Water Used
Well Guard WAS used

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED-3074-17703 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 6/30/93 WELL NO. 299-W-71-D RIG NO. 5306 LOCATION: 600 DRILLER: Howell Hutchinson

START DEPTH: 0 END DEPTH: 6 FOOTAGE: 6 R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Tear Down Set up Drilled
Shut Down Due To O.O.E

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [X]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOURS
DRILLING:	1	7.00	SAMPLING:	
SAFETY MEETINGS:			W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
SERVICE RIG:			W.O. LOGGERS:	
W.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:			STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER: Down Due To O.O.E	3.5
W.O. MAN HAUL:		ENDING TIME	OTHER:	
OTHER: Tear Down Setup new Site	3.5	3.30	TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HOURS
RUN:	12"	10		B. PULL:			
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:
No Water Used
Well ~~ground~~ Used
No AIR IN Bore Hole

APPROVAL: _____

JEW

Hutchins - Wraspir KEW

DRILL LOG	By Howell	Rig	Well Number	Computer Number	Project or Work Order No.
	Date 7/1/93		Depth To		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry/Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
				Shut Down Westinghouse	7.00	
				Inspection		
				Work on Riggen		
					11.30	
					12.00	
				Work on Makeing		
				D. B. s in Shop	3.30	
				No Drilling		

REMARKS:

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-86)

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. _____ SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 7/1/93 WELL NO. _____ RIG NO. _____ LOCATION: _____ DRILLER: Howell - Hutchins

START DEPTH: _____ END DEPTH: _____ FOOTAGE: _____ R.O.P. _____ DAYS on WELL: W/ASPIR

CURRENT ACTIVITY: Shut Down Westinghouse, Work on Rigger, Work in Shop Welding D.B.S

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOURS
DRILLING:		7.00	SAMPLING:	
SAFETY MEETINGS:			W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
SERVICE RIG:			W.O. LOGGERS:	
W.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:			STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER: Stok yard	8
W.O. MAN HAUL:		ENDING TIME	OTHER:	
OTHER:		3.30	TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HOURS
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

APPROVAL: _____

TEW

Hutchins

W

DRILL LOG	By Howell	Rig	Well Number	Computer Number	Project or Work Order
	Date 7-6-93		Depth To		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
				Arrive at Slab yard	7.00	
				Start making Core		
				Barrels for 16" Hole		
					11.30	Lunch
					12.00	
				Resume welding & Fitting		
				Core Barrels	3.30	Go Home
				NO Drilling		
				Westinghouse Shut Down		
				Inspection		
				D.O.E.		

REMARKS:

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. _____ SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 7/6/93 WELL NO. _____ RIG NO. _____ LOCATION: _____ DRILLER: Howell & Hutchins

START DEPTH: _____ END DEPTH: _____ FOOTAGE: _____ R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Westinghouse Shut Down, Inspection Doe, Work in Sign Yard Building Core Barrels for 16" Well

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS	STARTING TIME	ACTIVITY	HOURS
		7.00		
DRILLING:			SAMPLING:	
SAFETY MEETINGS:			W.O. SAMPLERS:	
BAIL HOLE:			LOGGING:	
~~SERVICE RIG:~~			W.O. LOGGERS:	
W.O. FUEL / SERVICE:			DECON EQUIP.	
W.O. SITE SAFETY OFFICER			DECON CSG.	
W.O. GEOLOGIST:			STEAM CLEANING:	
W.O. HPT:			W.O. WATER:	
LOST TIME Q.A.			W.O. TOOLS / MATERIAL:	
W.O. DIRECTION:			W.O. SAFETY EQUIP:	
MECH. BREAKDOWN:			OTHER: Welding +	
W.O. MAN HAUL:		ENDING TIME 3.30	OTHER: Fitting	
OTHER:			TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS		CSG. SIZE	FEET	HOURS
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN:				B. PULL:			
RUN S.S.				B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

NO Drilling

APPROVAL: _____

DEW

Hutchins

DRILL LOG	By Howell	Rig 5306	Well Number 699-49-71-D	Computer Number	Project or Work Order EO-3074-11703
	Date 7-7-93		Depth 6' To 10'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 10.33	6'	DB	D	Arrive At Slab yard	700	
				Weld + fit 16" Core		
				Barrels	11.30	Lunch
					12.00	
				Resume Welding	1.00	
				Man Haul To slab site	1.30	
	6'			Resume Drilling,		
	10'			Sand, Some Gravel, Fine B Sand	3.00	
				Man Haul Back To slab		
				yard	3.30	Go Home

REMARKS: No Air In Bore Hole
No Water Used
No Well Bumped Used

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-86)

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED-3074-17703 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 7/7/93 WELL NO. 699-49-71-D RIG NO. 5306 LOCATION: 600 DRILLER: Howell v Hutchins

START DEPTH: 6' END DEPTH: 10' FOOTAGE: 4' R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Westinghouse Shut Down, Inspection, Work in Slab yard Makeing Core Barrels for 16" Well - Man Haul To Slab Site, Afternoon, Drilling

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [X]

BIT SIZE: 16" MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS
DRILLING:	1.30
SAFETY MEETINGS:	
BAIL HOLE:	
SERVICE RIG:	
W.O. FUEL / SERVICE:	
W.O. SITE SAFETY OFFICER	
W.O. GEOLOGIST:	
W.O. HPT:	
LOST TIME Q.A.	
W.O. DIRECTION:	
MECH. BREAKDOWN:	
W.O. MAN HAUL:	
OTHER:	

STARTING TIME: 7.00

ENDING TIME: 3.30

ACTIVITY	HOURS
SAMPLING:	
W.O. SAMPLERS:	
LOGGING:	
W.O. LOGGERS:	
DECON EQUIP.	
DECON CSG.	
STEAM CLEANING:	
W.O. WATER:	
W.O. TOOLS / MATERIAL:	
W.O. SAFETY EQUIP:	
OTHER: Welding &	
OTHER: Fitting	6.30
TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS
RUN:			
RUN:			
RUN:			
RUN S.S.			

	CSG. SIZE	FEET	HOURS
B. PULL:			
B. PULL:			
B. PULL:			
B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

APPROVAL: _____

AEW

AEW A9921

Hutchins

DRILL LOG	By Howell	Rig 5306	Well Number 699-49-71-D	Computer Number	Project or Work Order ED-3074-17703
	Date 7-8-93		Depth 10' To 30		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 10.33	10'	DB	D	Arrive on Site, Service	7.00	
9.47				Rig		
19.80				Weld on Casing	7.30	
				Resume Drilling	8.30	
				Fine Sand & Small Gravel		
	16'			16' Course Gravel Sand		
				Small Cobbles		
10.43	20'			20' Weld on 12" Casing	10.30	
30.23					11.30	Lunch
				Resume Drilling	12.00	
				Fine B. Sand & Some		
	30'			Gravel To 30'	1.30	
				Complete Well D		
				30' T.D.		
				Wait on Rig Inspection		
				for Back pull	3.30	Go Home
				~~Read~~ C.H.		

REMARKS: No Air Jet Bore Hole
No Water used
No Well Guard used

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-86)

AEW

DRILL LOG / RIG ACTIVITY REPORT SHEET 2

PROJECT or W. O. NO. ED-3074-12703 SUBCONTRACT NO. _____ COMPUTER NO. _____ SHIFT: _____

DATE: 7/8/93 WELL NO. 699-49-11-D RIG NO. 5306 LOCATION: Loc DRILLER: Harrell & Hutchins

START DEPTH: 10' END DEPTH: 30' FOOTAGE: 20 R.O.P. _____ DAYS on WELL: _____

CURRENT ACTIVITY: Service Rig, Weld 12" Casing Drilling

==========

CURRENT BIT [ ] - HARD TOOL [ ] - DRIVE BARREL [X]

BIT SIZE: 12" MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

BIT CHANGE [ ] - HARD TOOL [ ] - DRIVE BARREL [ ]

BIT SIZE: _____ MFG. _____ SER. NO. _____ TYPE: _____ NEW / RERUN

BIT IN: _____ BIT OUT: _____ FTG. RUN: _____ R.O.P. _____ SCRAP / REUSABLE

==========

ACTIVITY	HOURS
DRILLING:	4
SAFETY MEETINGS:	
BAIL HOLE:	
SERVICE RIG:	.30
W.O. FUEL / SERVICE:	
W.O. SITE SAFETY OFFICER	
W.O. GEOLOGIST:	
W.O. HPT:	
LOST TIME Q.A.	
W.O. DIRECTION:	
MECH. BREAKDOWN:	
W.O. MAN HAUL:	
OTHER:	

STARTING TIME 7.00

ENDING TIME 3.30

ACTIVITY	HOURS
SAMPLING:	
W.O. SAMPLERS:	
LOGGING:	
W.O. LOGGERS:	
DECON EQUIP.	
DECON CSG.	
STEAM CLEANING:	
W.O. WATER:	
W.O. TOOLS / MATERIAL:	
W.O. SAFETY EQUIP:	
OTHER: Welding	2
OTHER: Wait on Rig Inspection	1.30
TOTAL SHIFT HOURS (8):	8

==========

	CSG. SIZE	FEET	HOURS
RUN:	12" 9"	9.42	2.5
RUN:	12"	10.43	1.5
RUN:			
RUN S.S.			

	CSG. SIZE	FEET	HOURS
B. PULL:			
B. PULL:			
B. PULL:			
B. PULL:			

COMMENTS / RIG REPAIRS REQUIRED / GENERAL INFORMATION:

APPROVAL: _____

AEW

Hutchin's

DRILL LOG	By: Howell	Rig: 5306	Well Number: 699-49-71-D	Computer Number	Project or Work Order No.: ED-3074-12703
	Date: 7/9/93		Depth: 30' BACK PULL To 0'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 30.14					700	7:30. Arrive on site, Service Rig
					7:30	8:30 - Wait on G.E.O.
					8:30	9:00 - Add coupon + Back fill with
						Drill cuttings
20'					9:00	10:00 - Back pull 10' 12" Caseing
						+ cut off.
					10:00	10.45 - Weld on Knocker Head
					10.45	11:00 - Add coupon + Back fill
					11:00	11:50 - Back pull 5'
					11:30	12:00 - Lunch
					12.00	1:00 - Resume Back pull, 5'
10'					1:00	1:45 - cut of 10' 12" Caseing
						weld on Knocker Head
					1:45	2:00 Add 10' coupon + Back
						fill to 5'
					2.00	2.15 - Back pull To 5'
0'					2.15	2.30 - Add Coupon + Back fill
						Complete well # D
					2:30 - 3:30	Bevel Caseing - Clean site

REMARKS:

A) WATER USED: YES ____ NO X GAL. ____
B) AIR CIRCULATION: IN ____ OUT ____ NONE X
C) WELLGUARD USED: YES X NO ____

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER ED-3074-17703 WELL# 699-49-71D RIG# 5306 DATE 7 9 93

DRILLER Howell HELPER Hutchins LOCATION 200 W

START DEPTH 30' END DEPTH 0' FOOTAGE 30'

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB		WO DIRECTION ☐ WHC ☐ KEH	
DRILLING/WELDING	4.5	WO SAMPLERS	
SAFETY MEETING		WO SITE SAFETY	
TAILGATE		WO LOGGERS	
PRESSURE WASHING		WO GEOLOGIST	1
SERVICE RIG	.5	WO HPT	
		WO TOOLS/MATERIAL	
		MECH BREAK DOWN	

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER - Set Coupons ~ Back Fill
START/STOP	/	/	/	/	1 hr.
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	/	/	/

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY GH. 7-7-93

Back pulled ~~waited on Geo 1 hour~~, 1 hr. Bevel Casing

Total hrs 8

Foreman Approval: _____ Superintendent Approval: _____

A9922 699-49-71E

699-49-71E A9922

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A9922			NORTHING	
WELL NAME	699-49-71E	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
BING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

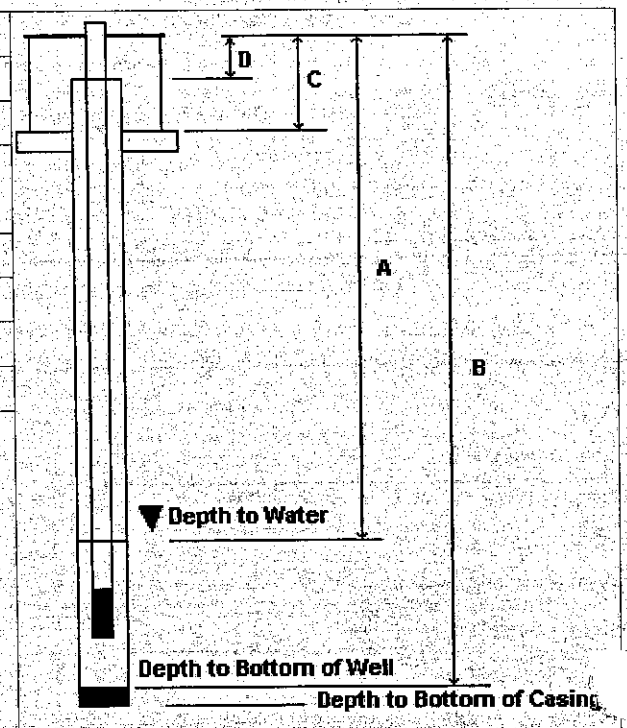
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9922			NORTHING	
WELL NAME	699-49-71E	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

Hutchins

DRILL LOG	By Howell	Rig 5306	Well Number 699-49-21-E	Computer Number	Project or Work Order No. ED-3074-17203
	Date 7/12/93		Depth 0' To 10'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
					700	Arive on site, Service Rig,
						Teardown Rig, Move Set up, Restring
						Tools Ready for new hole 10.30
12" 10.30	0'			0'-2'- Sandy Top Soil	10.30	11.30 - Drill To 4' + Add Caseing
	4'			2' To 8' - Large	11.30	12.00 - Lunch
				Cobble's, Gravel + Brown	200	1230: Drill + Drive Caseing To
	5'	D.B.	D	Sand		5' - Take Sample, phy -
	10'	DB	D		12.30	200 - Drill To 10' Take
						Sample, phy
					200	2.30 - welder had Gas in Diesel
						had To Be pumped out
10.26	10'				2.30	300 = start welding Casing
20.56					3.00	330 - fire watch
				This is the location that the well (borehole)		
				should be at.		
						L.A. Dorenius
						7/12/93

REMARKS:

A) WATER USED: YES ____ NO X GAL. ____
B) AIR CIRCULATION: IN ____ OUT ____ NONE X
C) WELLGUARD USED: YES X NO ____

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER ED-3074-17703 WELL# 699-49-71-E RIG# 5306 DATE 7/12/93

DRILLER Howell HELPER Hutchins LOCATION 600

START DEPTH 0' END DEPTH 10' FOOTAGE 10'

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB	3	WO DIRECTION ☐ WHC ☐ KEH	
DRILLING/WELDING	3.30	WO SAMPLERS	
SAFETY MEETING		WO SITE SAFETY	
TAILGATE		WO LOGGERS	
PRESSURE WASHING		WO GEOLOGIST	
SERVICE RIG	.30	WO HPT	
		WO TOOLS/MATERIAL	
		MECH BREAK DOWN	

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	/	/	/

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY

Mech. pump Gas out of Welder in Diesel. Ho-23-281 .30 Min. fire Watch .30

Foreman Approval: [signature] Superintendent Approval: _____

Hutchins

DRILL LOG	By Howell	Rig 5306	Well Number 699-49-71-E	Computer Number	Project or Work Order No. ED-3074-17703
	Date 7/13/93		Depth 10' To 30'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 90.56	10'				700	7.15 - Service Rig
					715	800 - finish Welding Casing
				Sand & Cobbles, &	800	9.00 - Drill & Advance hole To
	15	DB	D	Gravel 14'		15' & Take Sample (phy)
					900	10.00 - Drill & Advance hole To
	20	DB	D	14' To 22': Brown		20' & Take (phy) sample
5.33				Sand & Some Gravel	10.00	11.00 - Weld on Casing
					11.00	11.30 - Drill & Advance hole
29.89						To 24'
					11.30	12.00 - Lunch
	25'	DB	D		12.00	1.30 - Drill, advance hole - Take
				22' to 30': C. Sand		samples, & Complete Well To 30'
	30'	DB	D	& Very Little Gravel	1.30	2.00 - Rig Inspection - Restring Tools
					2.00	3.00 - Add 1st Coupon &
				weld on Knocker		Fill Dirt Back pull 10'
				Head. 3.6'	3.00	3.30 - Cut of Casing &
						Complete Day

REMARKS:

A) WATER USED: YES ____ NO X GAL. ____
B) AIR CIRCULATION: IN ____ OUT ____ NONE X
C) WELLGUARD USED: YES X NO ____

Back pull 9.33' of 12' Casing

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER ED3074-17203 WELL# 699-49-71E RIG# 5306 DATE 7-13-93

DRILLER Howell HELPER Hutchins LOCATION 200 W

START DEPTH 10' END DEPTH 30' FOOTAGE 20'

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB		WO DIRECTION ☐ WHC ☐ KEH	
DRILLING/WELDING	6	WO SAMPLERS	
SAFETY MEETING		WO SITE SAFETY	
TAILGATE		WO LOGGERS	
PRESSURE WASHING		WO GEOLOGIST	
SERVICE RIG	.25	WO HPT	
		WO TOOLS/MATERIAL	
		MECH BREAK DOWN	

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER
START/STOP	/	.25/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	/	/	/

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY

Completed Bore hole E (SET 30' Coupon add Fill and pulled 10' 1 hour) (Rig Inspection .5)

Foreman Approval: [signature] Superintendent Approval: _____

DRILL LOG

By	Rig	Well Number	Computer Number	Project or Work Order No.
Hutchins / Howell	5306	699-49-71-E		ED-3074-17703
Date: 7/14/93		Depth: 20' To 0'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
20.56	20'			Back pull	7.00	7.30 Paper Work + Service Rig
					7.30	8.00 Resume Back pull +
						Weld on Knocker Head
					8.00	9.00 - place 20' Coupon Add
						Fill Dirt + Back pull
10.33	10'					10'
					9.00	9.30 cut of Casing
						place 10' Coupon
					9.30	10.30 - Wait on Rig
						Repair - Clutch Stuck
						in Walking Beam
	0'				10.30	11.30 - Repair Rig
				Complete E	11.30	12.00 Lunch
				Hole	12.00	12.30 Back pull Add fill
					12.30	1.00 - Add Last Coupon
						Fill Dirt + Complete E Hole
					100	2.30 - Bevel pipe
					2.30	3.00 - Tear Down Rig
						3.00 - 3.30 Paper Work

REMARKS:

A) WATER USED: YES ____ NO X GAL. ____
B) AIR CIRCULATION: IN ____ OUT ____ NONE X
C) WELLGUARD USED: YES ____ NO X

David Garcia

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER ED3024-17703 WELL# 699-49-71-E RIG# 5306 DATE 7-14-93

DRILLER Howell HELPER Hutchins LOCATION 200 W

START DEPTH 20' END DEPTH 0' FOOTAGE 20'

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB	.5	WO DIRECTION ☐ WHC ☐ KEH	
DRILLING/WELDING	1	WO SAMPLERS	
SAFETY MEETING		WO SITE SAFETY	
TAILGATE		WO LOGGERS	
PRESSURE WASHING		WO GEOLOGIST	
SERVICE RIG	.5	WO HPT	
		WO TOOLS/MATERIAL	
		MECH BREAK DOWN	1

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	/	/	/

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY

Setting Cupon Back Fill 1.5 hours
waited on mech 1 hour
2 hours Back pulling 1 hour Beveling pipe

Foreman Approval: [signature] Superintendent Approval:

A9923 699-49-71F

699-49-71F A9923

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A9923			NORTHING	
WELL NAME	699-49-71F	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
UIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
BING LENGTH (ft)		TUBING LENGTH (ft)	
BING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

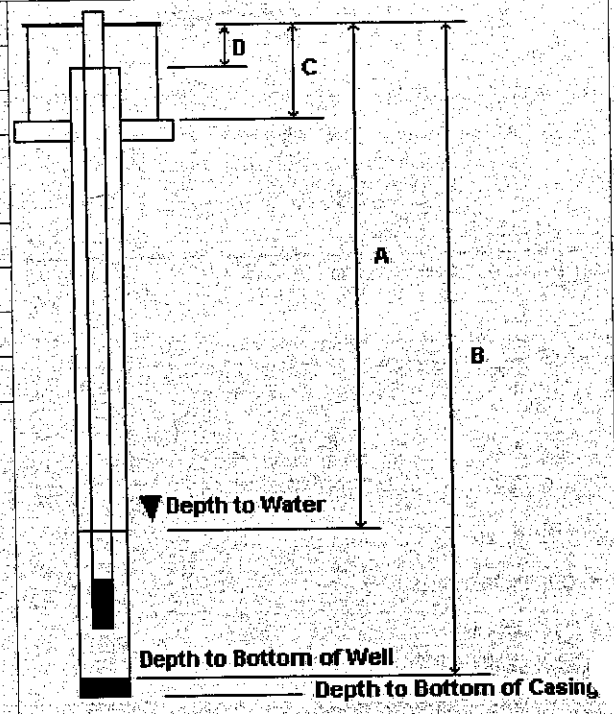
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9923			NORTHING	
WELL NAME	699-49-71F	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

Hutchins

DRILL LOG	By Howell	Rig 5306	Well Number 699-47-71-F	Computer Number	Project or Work Order No. ED-3074-12703
	Date 7/15/93		Depth 0 To 6'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12' 10.30	6'	DB	D	0' - 3' Sandy	7.00	10.00 Wait on Teamster
				Top Soil		To Move Equip.
				3' - To 6' - Sand	10.00	10.30 = Move Equip
				+ Cobbles, Gravel	10.30	11.30 = Set up Rig
					11.30	12.00 Lunch
					12.00	2.00 = Mech Fix Clutch
						in Rig
					2.00	3.00 - Start Drilling
					3.00	3.30 paperwork

REMARKS:

A) WATER USED: YES ____ NO X GAL. ____
B) AIR CIRCULATION: IN ____ OUT ____ NONE X
C) WELLGUARD USED: YES X NO ____

David Jones

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER ED3074-17203 WELL# 699-49-71F RIG# 5306 DATE 7-15-93

DRILLER Howell HELPER Hutchins LOCATION 200 (W)

START DEPTH 0' END DEPTH 6' FOOTAGE 6'

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB	1.5	WO DIRECTION ☐ WHC ☐ KEH	
DRILLING/WELDING	1	WO SAMPLERS	
SAFETY MEETING		WO SITE SAFETY	
TAILGATE		WO LOGGERS	
PRESSURE WASHING		WO GEOLOGIST	
SERVICE RIG		WO HPT	
		WO TOOLS/MATERIAL	
		MECH BREAK DOWN	.2

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	/	/	/

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY

W.O. Teamster's 3½ hour

Foreman Approval: [signature] Superintendent Approval:

Watchins

DRILL LOG	By Howell	Rig 5306	Well Number 699-49-71-F	Computer Number	Project or Work Order No. EO-3074-17703
	Date 9/16/93		Depth 6' To 30'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
12" 10.30	6	DB		6' TO 16', Sand	7.00	7.30 Service Rig
10.10				Gravel & Cobbles	7.30	8.30 Weld on Casing
				Dug		
				16' To 22'	8.30	10.30 - Drilling & Advance
	18'			Sand Layres, Small		Hole To 18'
				Gravel	10.30	11.00 - Weld on Casing
					11.00	11.30 - Fire Watch
					11.30	12.00 - Lunch
9.30				22' To 30' - Fine	12.00	12.30 - Complete Welding
				Sand, Gravel	12.30	2:30 - Drilling & Advance
	30'	DB	D			Hole To 30'
					2.30	3.00 - Break Down Jar
				NO Samples		D.B. & put on Half Jar
				on F Hole	3.00	3.30 paper Work
						Ready for Rig Inspection
						for Back pull
				David Jones		

REMARKS:

A) WATER USED: YES ____ NO X GAL. ____
B) AIR CIRCULATION: IN ____ OUT ____ NONE X
C) WELLGUARD USED: YES X NO ____

Complete Drilling of F Well

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER ED3074-17203 WELL# 699-49-71F RIG# 530C DATE 7-16-93

DRILLER Howell HELPER Hutchins LOCATION 200 W

START DEPTH 6' END DEPTH 30 FOOTAGE 24'

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB	.	WO DIRECTION ☐ WHC ☐ KEH	
DRILLING/WELDING	7.5	WO SAMPLERS	
SAFETY MEETING		WO SITE SAFETY	
TAILGATE		WO LOGGERS	
PRESSURE WASHING		WO GEOLOGIST	
SERVICE RIG	.5	WO HPT	
		WO TOOLS/MATERIAL	
		MECH BREAK DOWN	

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/
START/STOP	/	/	/	/	/

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	/	/	/

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY

Changed Tools .5 Paperwork .5

Foreman Approval: [signature] Superintendent Approval: _____

Hutchins

DRILL LOG	By Howell	Rig	Well Number	Computer Number	Project or Work Order No.
	Date 7/19/93		Depth To		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
					2.00	Arive At slab yard
						Work on Core Barrels
					11.30	12.00 - Lunch
					12.00	3.30 - Work in Shop
						At yard
					3.30	Go Home
				(NO Drilling)		

David Sweet

REMARKS:

A) WATER USED: YES____ NO____ GAL.____
B) AIR CIRCULATION: IN____ OUT____ NONE____
C) WELLGUARD USED: YES____ NO____

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER _____ WELL# _____ RIG# _____ DATE 7·19·93

DRILLER Howell HELPER Hutchins LOCATION 200 E

START DEPTH _____ END DEPTH _____ FOOTAGE _____

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB	____	WO DIRECTION ☐ WHC ☐ KEH	____
DRILLING/WELDING	____	WO SAMPLERS	____
SAFETY MEETING	____	WO SITE SAFETY	____
TAILGATE	____	WO LOGGERS	____
PRESSURE WASHING	____	WO GEOLOGIST	____
SERVICE RIG	____	WO HPT	____
		WO TOOLS/MATERIAL	____
		MECH BREAK DOWN	____

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	___/___	___/___	___/___

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY

clock in slab yard

Foreman Approval: [signature] Superintendent Approval: _____

DRILL LOG	By Howell	Rig	Well Number	Computer Number	Project or Work Order No.
	Date 7/20/13		Depth To		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
					700	Arive At Slab yard
						Work on Barrel Dump
						300 Area
					11.30	Lunch
					12.00	Lunch
					1200	3.30 - Work on Barrels
						& over pack At
						Carbon Tect 200 W
				(NO)		
				(Drilling)	3.30	Go Home

REMARKS:

A) WATER USED: YES____ NO____ GAL.____
B) AIR CIRCULATION: IN____ OUT____ NONE____
C) WELLGUARD USED: YES____ NO____

D. Hutchins - Worked in Slab yard!

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER _____ WELL# _____ RIG# _____ DATE 2-20-93

DRILLER Howell HELPER Hutchins LOCATION 200 W - 300 AREA

START DEPTH _____ END DEPTH _____ FOOTAGE _____

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB	____	WO DIRECTION ☐ WHC ☐ KEH	____
DRILLING/WELDING	____	WO SAMPLERS	____
SAFETY MEETING	____	WO SITE SAFETY	____
TAILGATE	____	WO LOGGERS	____
PRESSURE WASHING	____	WO GEOLOGIST	____
SERVICE RIG	____	WO HPT	____
		WO TOOLS/MATERIAL	____
		MECH BREAK DOWN	____

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	___/___	___/___	___/___

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY

Worked in Slab yard

Foreman Approval: [signature] Superintendent Approval: _____

DRILL LOG

By	Rig	Well Number	Computer Number	Project or Work Order No.
Hutchins / Howell	5306	699-49-21-F		ED-3079-17703
Date 7/21/93		Depth 30' To 0'		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
30'	30'			Back pull	7.00	Arrive on site at
				Add coupon fill		Slap yard
				(300-330 Man Haul		Man Haul To Drill
				(To Slab yard)	7.30	site
					7.30	8.00 Fill out Well Logs
					8.00	8.30 Service Rig
					8.30	9.00 = Add 30' coupon
						& fill with cuttings
20'				Add coupon, fill	9.00	1000 = Back pull 10"
						12" Casing. Cut off
					10.00	10.30 - Weld on stick
						up = (Knocker Head)
					10.30	11.30 = Add 2 coupon fill
						Dirt Back pull
10'				Add coupon, fill		10' & Cut off
					11.30	1200 = Lunch
	5'			Add coupon, fill	12.00	12.30 = Weld on Knocker
0'				(F Hole Complete)		Head
					12.30	200 Add 10' & 5' coupons
						Back pull Complete F Hole
						200 - 300 - Clean up site

REMARKS:

A) WATER USED: YES ____ NO X GAL. ____
B) AIR CIRCULATION: IN ____ OUT ____ NONE X
C) WELLGUARD USED: YES ____ NO X

Dave Jones

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER ED-3079-17708 WELL# 699-49-74F RIG# 5306 DATE 7-21-93

DRILLER Howell HELPER Hutchins LOCATION 200 CJ

START DEPTH 30' END DEPTH 0' FOOTAGE 30'

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB		WO DIRECTION ☐ WHC ☐ KEH	
Backpull esq DRILLING/WELDING	7	WO SAMPLERS	
SAFETY MEETING		WO SITE SAFETY	
TAILGATE		WO LOGGERS	
PRESSURE WASHING		WO GEOLOGIST	
SERVICE RIG	.5	WO HPT	
manual	.5	WO TOOLS/MATERIAL	
		MECH BREAK DOWN	

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	___/___	___/___	___/___

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY

Back pulled + set Coupons Add Fill 6hr

Foreman Approval: [signature] Superintendent Approval: _____

DRILL LOG

By: Hutchins / Howell
Date: 7/22/93
Rig: 5306
Well Number: 699-49-71-F
Depth: To
Computer Number:
Project or Work Order No.: ED-3024-17703
Subcontract No.:

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
					7.00	Arive At slab yard
						MAN Haul To Job
					7.30	site
					7.30	9.30 = De Mobilize Rig
						& Equip Steam clean
					9.30	10.00 = Bring Rig To
						slab yard
				No Drilling	10.00	11.30 Work on Drive
						plate's & Drive Barrel
					11.30	12.00 - Lunch
					12.00	3.30 work in shop
						D,B, & D.P's
						Note = Dave ~~Rathman~~ Rossman
						in slab yard &
						worked with Teamster
						700 To 11.30 Lunch 12.00
						12.00 - 3.30

REMARKS:

A) WATER USED: YES_____ NO_____ GAL._____
B) AIR CIRCULATION: IN_____ OUT_____ NONE_____
C) WELLGUARD USED: YES_____ NO_____

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine _____Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER _____ WELL# 699-49-71-5 RIG# 5306 DATE 7/22/93

DRILLER Howell HELPER Hutchins LOCATION 600

START DEPTH _____ END DEPTH _____ FOOTAGE _____

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB	2	WO DIRECTION ☐ WHC ☐ KEH	____
DRILLING/WELDING	____	WO SAMPLERS	____
SAFETY MEETING	____	WO SITE SAFETY	____
TAILGATE	____	WO LOGGERS	____
PRESSURE WASHING	____	WO GEOLOGIST	____
SERVICE RIG	____	WO HPT	____
		WO TOOLS/MATERIAL	____
		MECH BREAK DOWN	____

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	___/___	___/___	___/___

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY

Move Rig To Slab yard, Work in Shop on Drive plates, Drive Bartels 6 hrs

Foreman Approval: [signature] Superintendent Approval: _____

DRILL LOG	By Howell	Rig	Well Number	Computer Number	Project or Work Order No. ER-3973
	Date 7/23/93		Depth To		Subcontract No.

Total Casing	Depth	Drill Method	Wet/Dry Sample	LITHOLOGIC DESCRIPTION % Each Grain Size, Color, Roundness, Caliche, Etc.	Time	Drilling Comments
					700	730 Work in Slab yard
						on D.B.
					10.30	11.30 - Take fork Lift
						To loading Dock +
						Load on Low Boy Trailer
						Haul To Slab yard
					11.30	1200 - Lunch
					1200	3.30 Fork Lift
						Training
				NO Drilling		

REMARKS:

A) WATER USED: YES____ NO____ GAL.____
B) AIR CIRCULATION: IN____ OUT____ NONE____
C) WELLGUARD USED: YES____ NO____

D - Drive Barrel H - Hard Tool L - Large M - Medium S - Small VC - Very Coarse C - Coarse F - Fine VF - Very Fine ____ Standing Water

A-6000-021 (5-85)

DRILL LOG ACTIVITY REPORT SHEET 2

WORK ORDER ER-3973 WELL# _____ RIG# _____ DATE 7/23/93

DRILLER Howell HELPER _____ LOCATION Slab yard

START DEPTH _____ END DEPTH _____ FOOTAGE _____

ACTIVITY	HOURS	ACTIVITY	HOURS
MOB/DEMOB	____	WO DIRECTION ☐ WHC ☐ KEH	____
DRILLING/WELDING	____	WO SAMPLERS	____
SAFETY MEETING	____	WO SITE SAFETY	____
TAILGATE	____	WO LOGGERS	____
PRESSURE WASHING	____	WO GEOLOGIST	____
SERVICE RIG	____	WO HPT	____
		WO TOOLS/MATERIAL	____
		MECH BREAK DOWN	____

SAMPLING

TIME	A) CHEMICAL	B) PHYSICAL	C) AIR	D) WATER	E) OTHER
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___
START/STOP	___/___	___/___	___/___	___/___	___/___

LOGGING

	A) BETA	B) SPECTRA/GAMMA	C) OTHER
START/STOP	___/___	___/___	___/___

COMMENTS/GENERAL INFORMATION/DAILY ACTIVITY

hr 3.5 Work on Drive Barrel, Load Fork lift on Load Boy / hr. Take Fork Lift Training - 3.5

Foreman Approval: [signature] Superintendent Approval: _____

A8905 699-58-25

699-58-25 A8905

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8905			NORTHING	
WELL NAME	699-58-25	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

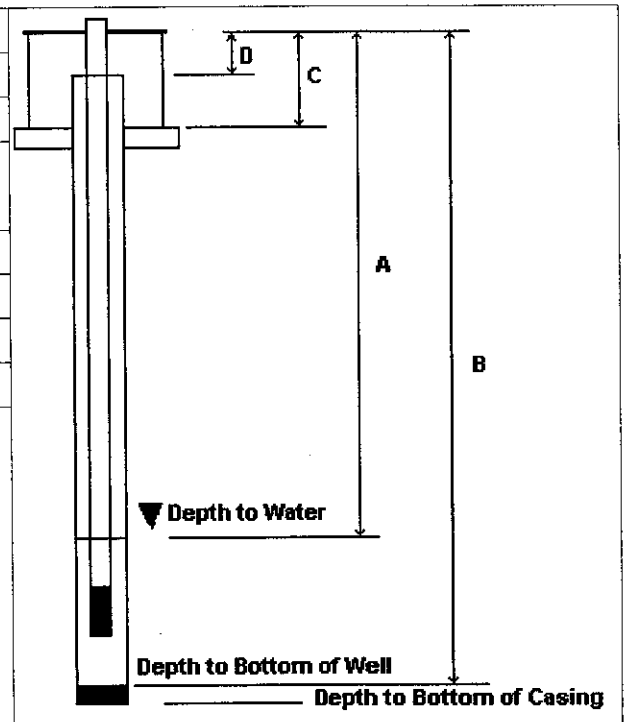
6/7/2006

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8905			NORTHING	
WELL NAME	699-58-25	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/7/2006

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING_ELEV / WELL_DIAM / DATE_COMPL	DRILL_DEPTH / COMPL_DEPTH / DEPTH_WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-57-83AP AB		57020.00 -82993.00	578.21 1.5 6/64	355.0 355.0	P	1.5	335.0	355.0	REMOVED. 699-57-83P
699-57-83AQ		57020.00 -82993.00	578.21 1.5	292.0	P	1.5	270.0	290.0	REMOVED. 699-57-83Q
699-57-83AR AB		57020.00 -82993.00	578.21 1.5 6/64	232.0 232.0	P	1.5	210.0	230.0	REMOVED. 699-57-83R
699-57-83B BW		56979.00 -83178.00	579.59 10.0	2395.0					BWIP WELL DC-23W; ABANDONED; PIEZOMETERS CEMENTED DC-23W
699-57-83BP GW									
699-57-83BQ GW									
699-57-83BR GW			1.8	1405.0					
699-57-83C BW			10.0 4/86	3533.0					BWIP WELL DC-23GR; ABANDONED; PIEZOMETERS CEMENTED DC-23GR
699-58-16			396.01 12.0	24.0 24.0					FILLED IN T13NR27E23R1, 699-HAN-32
699-58-24 GW B		58012.00 -24181.00	418.80 6.0 7/71	60.0 61.0 57.0					SCREEN 45-60 GM-15
699-58-25 VW			4.0						DUG WELL
699-58-26 VW			4.0						DUG WELL

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

A8906 699-58-26

699-58-26 A8906

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8906			NORTHING	
WELL NAME	699-58-26	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

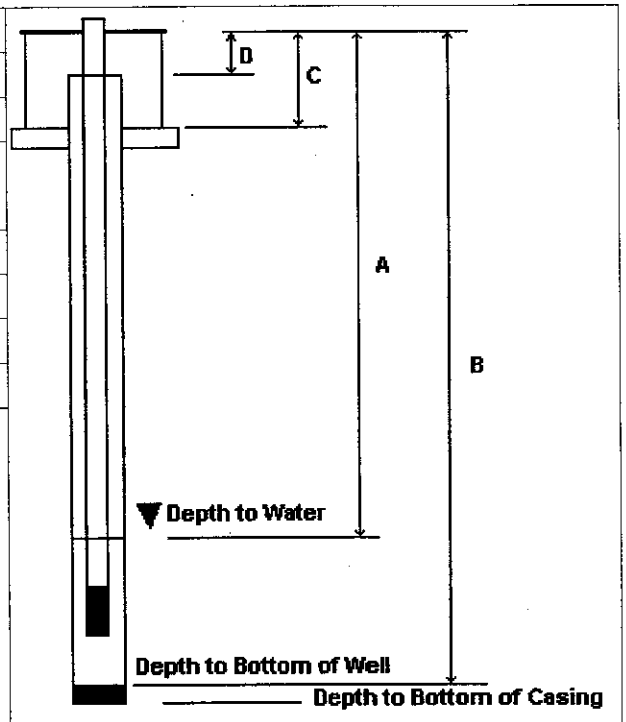
6/7/2006

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8906			NORTHING	
WELL NAME	699-58-26	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/7/2006

WELL NAME WELL TYPE PUMP TYPE	COORDINATES L 83 NS/EW	 PLANT NS/EW	CASING ELEV WELL DIAM DATE COMPL	DRILL DEPTH COMPL DEPTH DEPTH WATER	PERF/SCREEN TYPE	 DIAM	 TOP	 BOT	COMMENTS PREVIOUS WELL NAMES
699-57-83AP AB		57020.00 -82993.00	578.21 1.5 6/64	355.0 355.0	P	1.5	335.0	355.0	REMOVED. 699-57-83P
699-57-83AQ		57020.00 -82993.00	578.21 1.5	292.0	P	1.5	270.0	290.0	REMOVED. 699-57-83Q
699-57-83AR AB		57020.00 -82993.00	578.21 1.5 6/64	232.0 232.0	P	1.5	210.0	230.0	REMOVED. 699-57-83R
699-57-83B BW		56979.00 -83178.00	579.59 10.0 8/85	2395.0					BWIP WELL DC-23W; ABANDONED; PIEZOMETERS CEMENTED DC-23W
699-57-83BP GW			1.8	2395.0 2242.0					
699-57-83BQ GW			1.8	2395.0 1694.0					
699-57-83BR GW			1.8	2395.0 1405.0					
699-57-83C BW			10.0 4/86	3533.0					BWIP WELL DC-23GR; ABANDONED; PIEZOMETERS CEMENTED DC-23GR
699-58-16			396.01 12.0	24.0 24.0					FILLED IN T13NR27E23R1, 699-HAN-32
699-58-24 GW B		58012.00 -24181.00	418.80 6.0 7/71	60.0 61.0 57.0					SCREEN 45-60 GM-15
699-58-25 VW			4.0						DUG WELL
699-58-26 VW			4.0						DUG WELL

A8957 699-63-91

699-63-91 A8957

WELL ATTRIBUTES REPORT

LD ORDER NO				LAST INSPECTION	1/1/1801
LL ID	A8957			NORTHING	
ELL NAME	699-63-91	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
JIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
BING LENGTH (ft)		TUBING LENGTH (ft)	
BING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

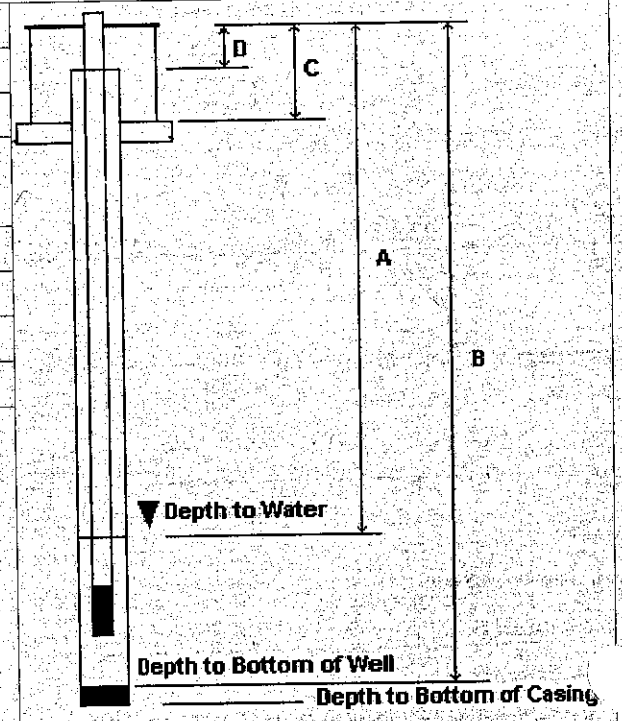
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8957			NORTHING	
WELL NAME	699-63-91	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE_COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH_WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-62-53		62468.00	438.40	456.0					BWIP WELL DC-10; BACKFILLED;
AB		-53244.00	3.0						ABANDONED
			12/77						DC-10
699-63-25A		63312.00	395.15	110.0	P	8.0	28.0	60.0	
GW		-24806.00	8.0	100.0	P	8.0	82.0	96.0	
S			7/49	34.0					P-11, S1683
699-63-25B		63200.00	385.00	50.0					BEN FRANKLIN DAM STUDY
GW		-24600.00	6.0						
			1/67	30.0					
699-63-51		62557.00	424.54	36.0	P	6.0	18.0	31.0	
GW		[illegible]	[illegible]						
S									GM-17
699-63-55							23.0	65.0	PLUG AT 65 FT.
GW									
S									GBM-6
699-63-58							81.0	121.0	SCREEN 81-121 FT.
GW									
S									GBM-5
699-63-89		62751.00	512.40	218.0					BASALT WELL
GW		-88504.00	6.0	218.0					
			4/73	97.6					UGB1
699-63-90		62892.00	509.73	253.0	P	8.0	95.0	147.0	CEMENT PLUG AT 160 FT.
GW		-90264.00	8.0	160.0					
S			12/48	116.0					62.5-90.0
699-63-91			6/0 8/78	50.0					CASING PULLED
AB									
			12/75						699-63-91A
699-63-92		63467.00	497.50	186.0					BASALT WELL
GW		-92042.00	6.0	120.0					
B			4/73	97.0					UGB3
699-63-95		63009.00	484.20	707.0					DEEPENED 5/78, NX CASING TO
BW		-95020.00	4.0	707.0					524 FT.
			4/73	85.0					DB-12, UGB2
699-64-27			414.29	84.0	P	8.0	50.0	74.0	CEMENT PLUG AT 81'
GW			8.0	81.0					
S				52.0					PSN-230

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

699-63-90 (Cont'd)

Material	Thickness	Depth
Fine gravel, fine sand, silt & clay binder; this formation lies in layers of coarse gravel, then a layer of fine gravel w/lots of silt & clay . .	3	214
Sand, gravel & silt	1	215
Medium small gravel, black & white sand & lots of silt . .	15	230
Medium gravel 25%, coarse sand 35%, fine sand 25%, & 15% silt & clay	6	236
Black basalt, sand & silt, very little gravel	2	238
Basalt	3	241
Solid black basalt	4	247
Solid black basalt w/some white volcanic ash	6	253

699-63-91
Location: 13/25-16H2
Casing Elevation:
Air rotary, drilled by Aqua Drilling & Development Company & logged by Ledgerwood of & for ARHCO, 1975, hydrologic investigation borehole

Material (1)	Thickness	Depth
Sand	5	5
Gravelly sand	5	10
Large cobbles & boulders	5	15
Gravelly medium sand	5	20
Sandy gravel	20	40
Gravelly medium sand	5	45
Sandy gravel	5	50
Boulders	1	50

Catalog of Borehole Descriptive Logs from the 600 Area, Hanford Site
K.R. Fecht, M.A. Chamness and J.T. Lillie
Site Department, Basalt Waste Isolation Project
November 1984
Prepared for the US DOE under Contract DE-AC06-77RL01030
Rockwell International Aerospace Division, Rockwell Hanford Operation, Richland, WA

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A8957	699-63-91	12/31/1975		50	ft		

2 attempts were made to drill an 8 5/8" hole - both Casings broke & were left in the ground.
R & B
6/13/06

F S
engineering construction management

TIME LOG

HOLE NO.: 699-63-91A

BIT NO.: _____

DATE 5-9-75

SHEET 1 OF 2

Rod

TIME START	TIME STOP	DESCRIPTION OF OPERATION
07 15 AM	8 50	Rigging up-Site #1, Hole 3, 10' to 200'.
		& welding on 8" bit stabilizer section.
8 50	9 00	Drilling open w/ 8" bit to 8'
9 00	9 30	Welding shoe on 8" casing
9 30	9 40	Going in with 8" casing & driving casing
9 40	10 00	Cutting casing & drilling ahead with 8" bit
10 00	10 30 / 11 05	Reconnecting.
10 30	~~11 00~~	Driving casing & reweldng drive block.
11 05	11 30	Cutting casing & drilling ahead with 8" bit
11 30	12 00	Reconnecting
12 00	12 30	Driving casing
12 30	1 00 pm	Cutting casing & recentering rig.
1 00	1 05	Going in with 6" bit.
1 05	1 10	coming out of hole
1 10	1 25	cutting part in pipe ~2cts/rd / 1 1/2 ft
1 25	1 35	welding shoe on 6" casing
1 35	1 45	SETTING 6" casing & driving casing
1 45	2 25	Connecting 6" pipe
2 25	3 15	Driving casing & trimming top
3 15	3 30	Cleaning out to 40'
3 30	4 55	making connection & driving casing
4 55	5 10	Casing won't drive @ ~50' - cutting.
5 10	5 30	Cleaning out to 50'.
5 30	6 15	Reconnecting casing ~~& driving~~

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engineering construction management

TIME LOG

HOLE NO.: 699-63-91A

DATE 5-9-75

BIT NO.: _____

SHEET 2 OF 2

TIME		DESCRIPTION OF OPERATION
START	STOP	
6 15 pm	7 15	Driving casing - stopped & cut casing.
7 15		Back in hole - losing air in perforations, no
		returns.
	7 30	Well broken on pipe at ~ 13' below top

FS engineering construction management

TIME LOG

HOLE NO.: 699-63-91A

DATE 5-10-75

BIT NO.: _____

SHEET _____ OF _____

TIME		DESCRIPTION OF OPERATION
START	STOP	
START 07 30	07 50	Abandoned broken-off hole - Attempting to pull 8" surface casing. Cable broke, pipe won't come.
07 50	08 05	Off-setting rig.
08 05	08 20	Starting 8" open-hole
08 20	09 50	Welding leading end re-inforcement on 8" casing.
09 50	10 15	Driving 8" casing
10 15	11 00	Cut casing. & drilling w 8" b.t to 15'
11 00	11 30	Reconnecting
11 30	12 00	Driving casing & cleaning out. Drilling Stopped.

DRILL LOG

BY: Rod

DATE: 5-9-75

RIG: AQUA DRILL #T-4 DRILLMASTER

WELL NO.: 69-63-91A

DEPTH: 6 TO

SUBCONTRACTOR:

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
		0	D	SAND-	8:50	
		5	D	GRAVELLY SAND	8:55	
		10	"	LARGE COBBLES & BOULDERS	11:15	
		15	"	Gravelly Medium Sand	1:10	
		20	"	SANDY GRAVEL	3:15	
		25	"	" "	3:20	
		30	"	" "	3:22	
		35	"	" "	3:23	
		40	"	GRAVELLY SAND - mS	3:25	
		45	"	SANDY GRAVEL - mS	5:15	
		50	"	BOULDERS -	5:20	

REMARKS:

A-6000-021 (1-74)

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ____STANDING WATER

FS engineering construction management

TIME LOG

HOLE NO.: 699-63-91A

DATE 5-12-75

BIT NO.: _____

SHEET _____ OF _____

TIME		DESCRIPTION OF OPERATION
START	STOP	
0950 am	1100	Welding shoe & Perforating 30' of 6" casing - 1 rd/ft, 2 cuts rd.
1100	1110	Going in hole with 20' jt of perforated casing.
1110	1140	Making connection with 20' jt, 10' perforated
1140	200 pm	Driving casing.
200	240	Cleaning out casing
240	340	Making connection & repairing drive block.
340	440	Driving casing.
440	515	Casing stopped. cutting 15' & cleaning out
515	605	Reconnecting
605	645	Driving casing - Casing stopped - will broke
700	-	Terminated drilling for day.
		9

F S
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construction
management

TIME LOG

HOLE NO.: _____ DATE 5-13-75

BIT NO.: _____ SHEET _____ OF _____

TIME		DESCRIPTION OF OPERATION
START	STOP	
0830	1030	Tear down and move off 699-63-91A
		Rig released by RM @ 200E Area.

A9112 699-114-11

699-114-11 A9112

WELL ATTRIBUTES REPORT

LD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A9112			NORTHING	
WELL NAME	699-114-11	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
BING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

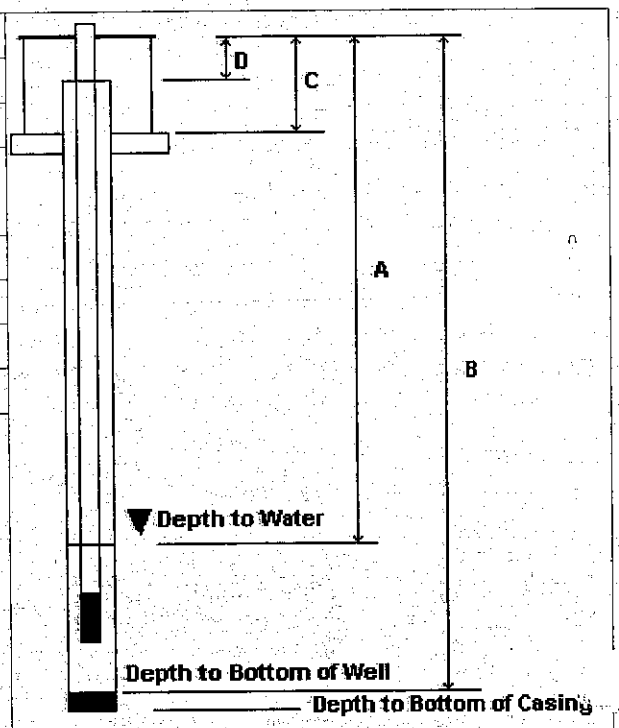
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9112			NORTHING	
WELL NAME	699-114-11	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

699-114-11 (DH-1)
Location: 15/27-36A
Surface Elevation: 836
Corehole, drilled by & for Bureau of Reclamation, 1966, hydrologic investigation borehole

Material (19)	Thickness	Depth
Silty sand, brown, compact, dry .	12	12
Boulders & cobbles, reddish-brown, basaltic, strongly weathered, caliche coated w/some gravels & sand	5	17
Basalt	60	77
Sandstone, light gray, white to yellow & tan, fine to coarse grained, weakly cemented to indurated & fractured, stratified w/embedded strongly weathered basaltic gravels . . .	8	85
Sand, soft	10	95

Catalog of Borehole Descriptive Logs from the 600 Area, Hanford Site
K.R. Fecht, M.A. Chamness and J.T. Lillie
Site Department, Basalt Waste Isolation Project
November 1984
Prepared for the US DOE under Contract DE-AC06-77RL01030
Rockwell International Aerospace Division, Rockwell Hanford Operation, Richland, WA

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE_COMPL	DRILL_DEPTH / COMPL_DEPTH / DEPTH_WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-102-48		101550.00	390.00	56.0					CASING REMOVED
AB		-47790.00	6.0						699-101-48C, HR-8
			5/43						
699-103-25			675.94	378.0					USBR
OS			12/80						14/27-3P1
699-103-53A			433.00	57.0					FILLED IN
AB			5.0						14/26-10A1
699-103-53B			450.00	68.0					FILLED IN
AB									14/26-2N1
699-105-1									STOCK WELL BY CORRAL
OS									14/28-5H1
699-107-79									ARMY WELL 410-2
OS									14/25-1D1, PSN
699-108-20			685.00	630.0					ARMY WELL
OS									14/27-2C1
699-111-24		111000.00	699.14	631.0	P	20.0	244.0	354.0	ARMY WELL
GW		-24000.00	20.0						500-1, PSN-500
			2/52	282.0					
699-112-37		111737.00	741.82	1140.0	P	16.0	876.0	879.0	PERF. 982-1115 FT., ARMY WELL
GW		-36569.00	16.0						15/27-32E1, 699-113-38, PSN
			11/53						
699-114-11			836.00	95.0					USBR
OS			12/66						15/27-36A
699-114-127		114112.00	935.79	5002.0					WELL FILLED WITH ROCK
OS		-127084.00	2.0						DH-5
			2/72						
699-115-7		115430.00	936.78	4776.0					PARTIALLY CAVED IN; TOOLS ABANDONED IN WELL
OS		-7238.00	2.0						699-117-10, DH-4
			11/71						

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A9112	699-114-11	12/31/1966		95	ft		

12/66, 95 US BF 5/12-36R

A9123 699-HAN-31

699-HAN-31 A9123

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A9123			NORTHING	
WELL NAME	699-HAN-31	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
BING LENGTH (ft)		TUBING LENGTH (ft)	
BING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

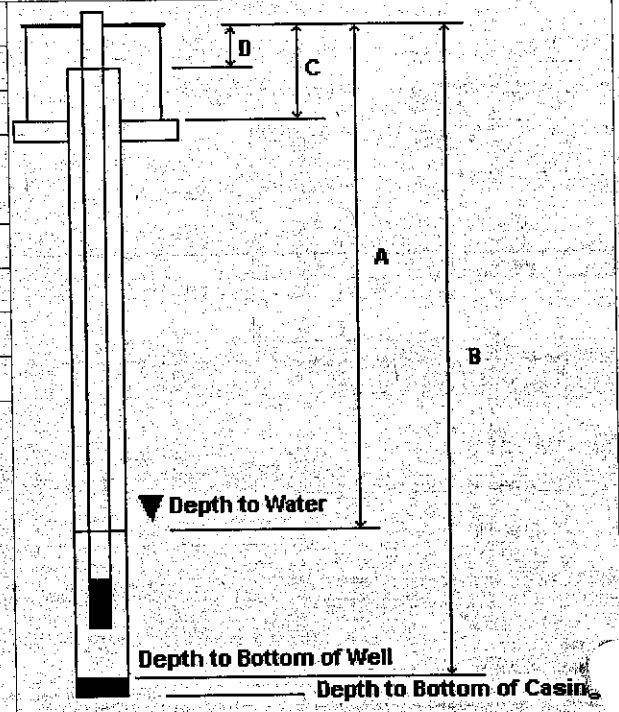
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9123			NORTHING	
WELL NAME	699-HAN-31	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)	37	
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE_COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH_WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-115-61		114633.00	790.60	880.0					ARMY WELL
GW		-60557.00	16.0						
B			12/53						15/26-28Q1, 699-114-60, PSN
699-117-11			910.00	56.0					USBR
OS			12/66						15/27-25J, DH-2
699-118-87			922.00	622.0					
OS			6.0	445.0					15/25-26D1, REF.7
699-119-11				63.0					
OS			12/66						15/27-25A, DH-3
699-122-11									
SW									15/27-24J
699-ALY-MNR									
RW									D.HILDEBRANT
699-ATH									
RW									
699-HAN-30			407.50	68.0					NOT LOCATED
			60.0	68.0					
			3/43						U.S.E.D. L-5
699-HAN-31			410.00	37.0					CASING REMOVED
			6.0	37.0					
			6/43						HI-10W
699-LANDFILL				312.0					CITY WELL
RW			8.0						
			12/77	105.0					
699-MATHEWS									Presumed located at Mathews Corner
OS									699-W-15, W-15
699-ORV-1				386.0	P	8.0	286.0	386.0	CITY WELL
RW			8.0						
			11/82	77.0					699-ORV

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A9123	699-HAN-31	06/30/1943		37	ft		

HANFORD INTERNATIONAL No. 10

Abandoned

Started drilling - June, 1943
Finished drilling- " "

Elev. Top of Casing -
Ground Elevation - 382.20

Coordinates - Approx. 100 East of Hanford-International #9

6" Casing set at -
Pipe pulled

Formation Record

0	6	6	Sand
6	18	12	Boulders & sandrock
18	34	16	Coarse gravel & sand
34	37	3	Blue sandy clay

No Static readings taken.

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOURCE	DATE_OF_SOURCE
A9123	699-HAN-31	06/30/1943		37	ft			

Query HWIS again

HWIS Interface - Maintenance Information - Latest Maintenance Depth to Bottom/Water

WELL_ID	WELL_NAME	DEPTH_TO_BOTTOM	DEPTH_TO_BOTTOM_UNITS	DEPTH_TO_BOTTOM_DATE	DEPTH_TO
A9123	699-HAN-31	37	ft		

A9248 699-S49-E2

699-S49-E2 A9248

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
VELL ID	A9248			NORTHING	
NELL NAME	699-S49-E2	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
UBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

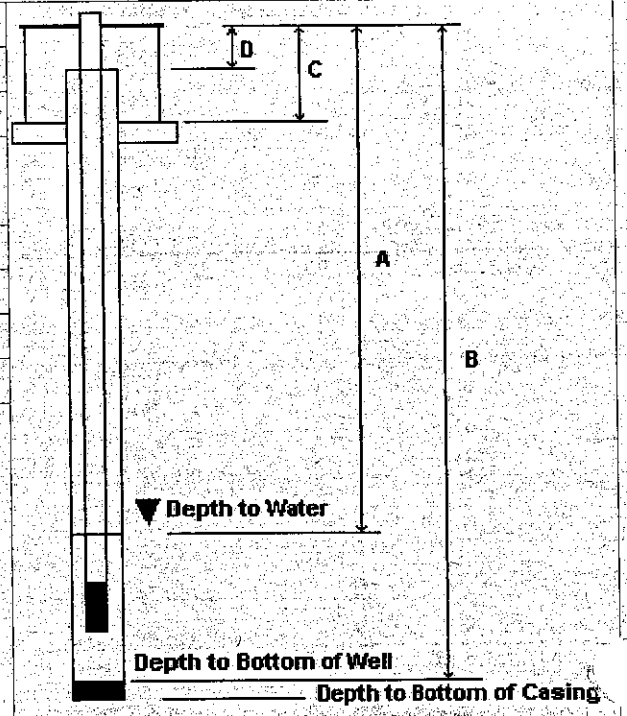
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9248			NORTHING	
WELL NAME	699-S49-E2	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)	180	
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

6/15/2005

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING_ELEV / WELL_DIAM / DATE_COMPL	DRILL_DEPTH / COMPL_DEPTH / DEPTH_WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-S52-E3A			365.00	107.0					
OS				107.0					
699-S52-E3B			365.00	80.0					
OS			8.0	80.0					
			3/62						
699-S52-E3C			365.00	60.0					
OS			6.0	60.0					
			4/62						
699-S52-E2A			360.00	65.0					
OS			6.0	65.0					
			3/62						
699-S52-E2B			360.00	67.0					
OS			6.0	67.0					
			3/62						
699-S51-2		-50876.00	387.16	572.0	P	16.0	77.0	79.0	
OS		-2488.00	16.0	572.0					
			1/57	28.0					W.RICH.REF#1
699-S51-4		-50632.00	416.30	250.0					
OS		-4197.00	24.0	250.0					
			8/62	24.0					W.R.CITYWELL
699-S49-E2			350.00	180.0					
OS			8.0	180.0					
699-S48-E15		-47759.00	390.46						
OS		14625.00							
699-S48-E14		-47753.00	394.72						
OS		14046.00							
699-S48-E12			370.00	144.0					
OS			6.0	144.0					
			5/61						
699-S43-E12	110404.50	-43060.00	405.60	61.8	S	4.0	42.0	52.6	
GW	593612.90	11986.00	4.0	58.0	S	4.0	52.6	58.0	
H			11/88	48.2					WHS-4

Query HWIS again

HWIS Interface - Maintenance Information - Latest Attributes

WELL_ID	WELL_NAME	INSPECTION_ID	FIELD_ORDER_NO	DATE_INSPECTED	DEPTH_TO_BOTTOM	DEPTH_TO_
A9248	699-S49-E2	2559		01/01/1801	180	ft

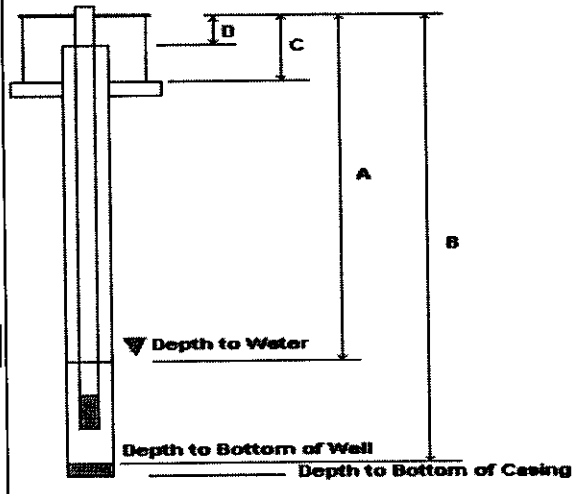
Well ID A9248
Well Name 699-S49-E2
Inspection ID: 2559
Inspection Date: 01/01/1801

INSPECTION INFORMATION	
Well Pad	☐ Yes ☐ No ☑ ND*
Brass Survey Marker	☐ Yes ☐ No ☑ ND*
Marker Stamped w/Survey Data	☐ Yes ☐ No ☑ ND*
Marker Stamped w/Well ID Data	☐ Yes ☐ No ☑ ND*
Well Labeled w/Well ID	☐ Yes ☐ No ☑ ND*
Well Labeled w/Well Name	☐ Yes ☐ No ☑ ND*
Protective Posts	☐ Yes ☐ No ☑ ND*
Removable Posts in Place	☐ Yes ☐ No ☑ ND*
Well Lock	☐ Yes ☐ No ☑ ND*
Well Damaged	☐ Yes ☐ No ☑ ND*
Well is Dry	☐ Yes ☐ No ☑ ND*
Parted Casing	☐ Yes ☐ No ☑ ND*
Bentonite in Well	☐ Yes ☐ No ☑ ND*
Well Sanded In	☐ Yes ☐ No ☑ ND*
Collapsed Casing	☐ Yes ☐ No ☑ ND*
Equipment in Well	☐ Yes ☐ No ☑ ND*
Debris in Well	☐ Yes ☐ No ☑ ND*
Surface Erosion	☐ Yes ☐ No ☑ ND*

MEASUREMENT INFORMATION	
A Depth to Water (ft)	
Depth To Water Date	
B Depth to Bottom (ft)	180
Depth to Bottom Date	
C Stick Up (ft)	
D Reference Mark (ft)	
Reference Mark in TOC	☐ Yes ☐ No ☑ ND*

PUMP INFORMATION	
Pump Activity Performed	
Activity Performed By	ND*
Date Activity Performed	
Pump Tested	☐ Yes ☐ No ☑ ND*
New Pump	☐ Yes ☐ No ☑ ND*
Pump Type	ND*
Pump Make	ND*
Pump Model	ND*
Pump Intake Depth (ft)	

TUBING INFORMATION	
Tubing Size (in)	
Tubing Material	ND*
Tubing Length	
Tubing Connection	ND*



ND* - Not Documented

Query HWIS again

HWIS Interface - Maintenance Information - Latest Maintenance Depth to Bottom/Water

WELL_ID	WELL_NAME	DEPTH_TO_BOTTOM	DEPTH_TO_BOTTOM_UNITS	DEPTH_TO_BOTTOM_DATE	DEPTH_TO
A9248	699-S49-E2	180	ft		

8" to 180'

?