



NEUTRON / GAMMA RAY / DENSITY / CALIPER

FILING NO.	COMPANY	OGDEN ENVIRONMENTAL					
	WELL	P2-002					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE CALIFORNIA				
	LOCATION:	BOEING - ROCKET DYNE		OTHER SERV:			
	SITE:	END OF WOOLSEY CYN RD.		NONE			
JOB NO.	SEC	TWP	RGE				
33605							
PERMANENT DATUM: GROUND LEVEL		ELEV: N/A		ELEVATION:			
				KB.			
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM				DF.			
DRILLING MEASURED FROM GROUND LEVEL				GL.			
DATE	11-10-2000	11-10-2000	11-10-2000				
TYPE OF LOG	GAMMA RAY	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	66'	66'	66'				
DEPTH - LOGGER	66'	66'	66'				
BOTTOM LOGGED INT	64.5'	64.5'	64.5'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	WATER	WATER	WATER				
FLUID LEVEL	FULL	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-10	BFL	L-10			
				BFL			
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	8"	SURF	66'	2"	PVC	SURF	66'
				AUGER	STEEL	SURF	9'

EQUIPMENT DATA

LOG TYPE	GAMMA RAY	NEUTRON	DENSITY	
RUN NO.	ONE	ONE	ONE	
TOOL MODEL NO.	ORE	COSMOS	ORE	
TOOL SERIAL NO.	T-134	T-2	T-37	
DIAMETER	1 11/16	1 11/16	1 11/16	
DETECTOR TYPE	SCINT	HE3	GEIGER	
DETECTOR LENGTH	4"	4"	2"	
UNITS/DIV.	20 API	50 CPS	500 CPS	
SENSITIVITY	100/122	1000/250	5000/250	
TIME CONSTANT	4 SEC	4 SEC	4 SEC	
ZERO DIV L OR R	0	0	0	
SPEED-FPM	15	15	30	
FLUID LEVEL	FULL	FULL	FULL	
FORMATION FACTOR	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.
AM-241-BE	3 CURIE	13"	71-1	228
CS-137	125 MCI	13"	F1-VD-HP	B-030
PERFORATIONS:				
REMARKS: 2" PVC FILLED WITH WATER PRIOR TO RUNNING				
NEUTRON AND DENSITY. PVC PULLED PRIOR TO RUNNING CALIPER				
HOLE CAVED IN COULD NOT GET PAST 60'				
WELL DRILLED BY: LAYNE				
DRILLER:				
NOTICE:				
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.				
WELLENCO, INC				



NEUTRON / GAMMA RAY / DENSITY / CALIPER

FILING NO. COMPANY OGDEN ENVIRONMENTAL
 WELL PZ-002
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

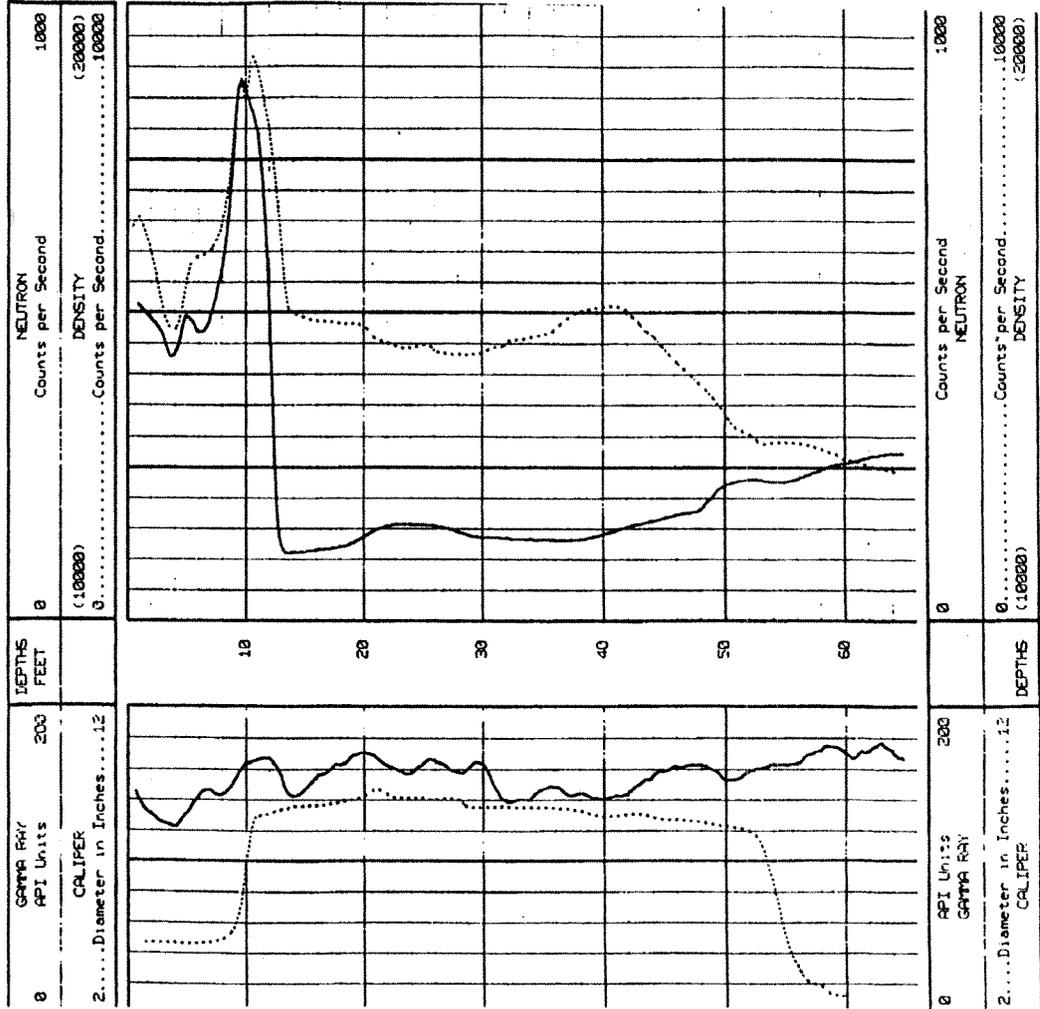
LOCATION: BOEING - ROCKET DYNE OTHER SERV:
 SITE, END OF WOOLSEY CYN RD. NONE

JOB NO. 33605
 SEC TWP RGE

PERMANENT DATUM: GROUND LEVEL ELEV: N/A ELEVATION:
 LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM KB.
 DRILLING MEASURED FROM GROUND LEVEL GL.

DATE	11-10-2000	11-10-2000	11-10-2000
TYPE OF LOG	GAMMA RAY	NEUTRON	DENSITY
RUN NO.	ONE	ONE	ONE
DEPTH - DRILLER	66'	66'	66'
DEPTH - LOGGER	66'	66'	66'
BOTTOM LOGGED INT	64.5'	64.5'	64.5'
TOP LOGGED INT	0'	0'	0'
TYPE FLUID IN HOLE	WATER	WATER	WATER
FLUID LEVEL	FULL	FULL	FULL
MAX TEMP DEG F	N/A	N/A	N/A
OPERATING RIG TIME	N/A	N/A	N/A
EQUIP. LOCATION	L-10 BFL	L-10 BFL	L-10 BFL
OPERATOR	DAN IHDE		
WITNESSED BY	TODD HALL		

RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO	
ONE	8"	SURF	66'	2"	PVC	SURF	66'	
				AUGER	STEEL	SURF	9'	





NEUTRON / GAMMA RAY / DENSITY LOG

FILING NO.	COMPANY	OGDEN ENVIRONMENTAL					
	WELL	PZ-005					
	FIELD	SANTA SUSANA FIELD LAB.					
	COUNTY	LOS ANGELES	STATE CALIFORNIA				
	LOCATION:	BOEING - ROCKET DYNE		OTHER SERV: INDUCTION CALIPER			
	SITE.	END OF WOOLSEY CYN RD.					
JOB NO. 33605	SEC	TWP	RGE				
	PERMANENT DATUM:	GROUND LEVEL	ELEV:	N/A			
	LOG MEASURED FROM G.L.	0 FT ABOVE PERM DATUM		ELEVATION: KB.			
	DRILLING MEASURED FROM GROUND LEVEL			DF. GL.			
DATE	11-10-2000	11-10-2000	11-10-2000				
TYPE OF LOG	GAMMA RAY	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	45'	45'	45'				
DEPTH - LOGGER	42.5'	42.5'	42.5'				
BOTTOM LOGGED INT	41'	41'	41'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	WATER	WATER	WATER				
FLUID LEVEL	FULL	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-10	BFL	L-10			
OPERATOR	DAN INDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	25'	2"	PVC	SURF	45'
	4"	25'	45'				

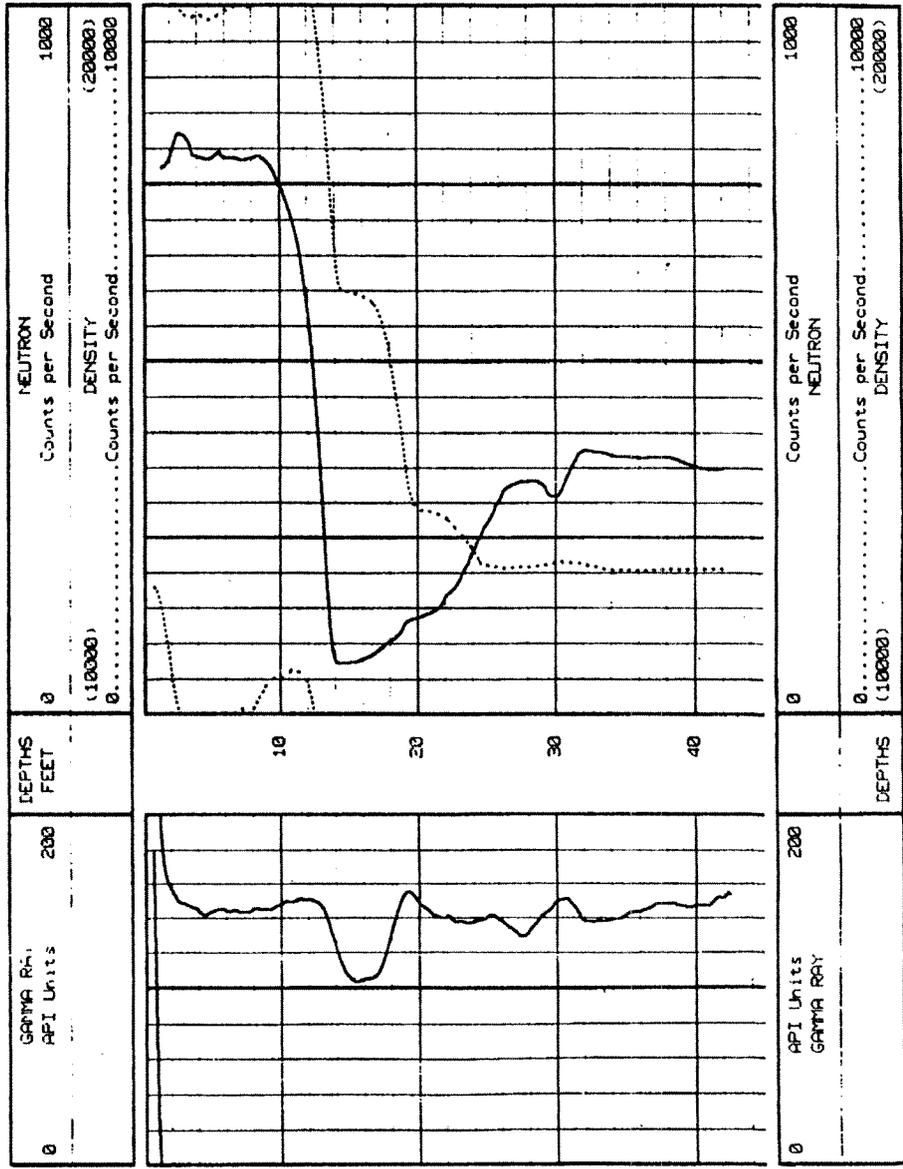
EQUIPMENT DATA

LOG TYPE	GAMMA RAY	NEUTRON	DENSITY	
RUN NO.	ONE	ONE	ONE	
TOOL MODEL NO.	ORE	COSMOS	ORE	
TOOL SERIAL NO.	T-134	T-2	T-37	
DIAMETER	1 11/16	1 11/16	1 11/16	
DETECTOP TYPE	SCINT	HE3	GEIGER	
DETECTOR LENGTH	4"	4"	2"	
UNITS/DIV.	20 API	50 CPS	500 CPS	
SENSITIVITY	100/122	1000/250	5000/250	
TIME CONSTANT	4 SEC	4 SEC	4 SEC	
ZEPS DIV L OP R	0	0	0	
SPEED-FPM	15	15	30	
FLUID LEVEL	FULL	FULL	FULL	
FORMATION FACTOR	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.
AM-241-BE	3 CURIE	13"	71-1	208
CS-137	125 MCI	13"	FI-VD-HP	E-030
PEEPORATIONS:				
REMARKS: 2" PVC FILLED WITH WATER PRIOR TO RUNNING NEUTRON AND DENSITY				
WELL DRILLED BY: LAYNE				
DRILLER:				
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WELenco, INC.				



NEUTRON / GAMMA RAY / DENSITY LOG

FILING NO.	COMPANY	OGDEN ENVIRONMENTAL					
	WELL	PZ-005					
JOB NO.	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE CALIFORNIA				
33605	LOCATION:	BOEING - ROCKET DYNE		OTHER SERV:			
	SITE:	END OF WOOLSEY CYN RD.		INDUCTION CALIPER			
PERMANENT DATUM:	GROUND LEVEL	ELEV:	N/A				
LOG MEASURED FROM	G.L. 0 FT ABOVE PERM DATUM		ELEVATION:	KB.			
DRILLING MEASURED FROM	GROUND LEVEL			DF.			
				GL.			
DATE	11-10-2000	11-10-2000	11-10-2000				
TYPE OF LOG	GAMMA RAY	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	45'	45'	45'				
DEPTH - LOGGER	42.5'	42.5'	42.5'				
BOTTOM LOGGED INT	41'	41'	41'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	WATER	WATER	WATER				
FLUID LEVEL	FULL	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-10	BFL	L-10 BFL			
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	25''	2"	PVC	SURF	45'
	4"	25'	45'				





INDUCTION / GAMMA RAY / CALIPER LOG

FILING NO.	COMPANY	OGDEN ENVIRONMENTAL						
	WELL	PZ-005						
	FIELD	SANTA SUSANA FIELD LAB						
	COUNTY	LOS ANGELES	STATE CALIFORNIA					
	LOCATION:	BOEING - ROCKET DYNE		OTHER SERV:				
	SITE:	END OF WOOLSEY CYN. RD.		DENSITY				
				NEUTRON				
JOB NO.	SEC	TWP	RGE					
33605								
PERMANENT DATUM:	GROUND LEVEL	ELEV:	N/A					
LOG MEASURED FROM	G.L.	0 FT ABOVE PERM DATUM						
DRILLING MEASURED FROM	GROUND LEVEL							
DATE	11-10-2000	11-10-2000	11-10-2000					
TYPE OF LOG	INDUCTION	GAMMA RAY	CALIPER					
RUN NO.	ONE	ONE	ONE					
DEPTH - DRILLER	45'	45'	45'					
DEPTH - LOGGER	42.5'	42.5'	26'					
BOTTOM LOGGED INT	41'	41'	25'					
TOP LOGGED INT	0'	0'	0'					
TYPE FLUID IN HOLE	WATER	WATER	WATER					
FLUID LEVEL	FULL	FULL	FULL					
MAX TEMP DEG F	N/A	N/A	N/A					
OPERATING RIG TIME	N/A	N/A	N/A					
EQUIP.	LOCATION	L-10	BFL	L-10				
				BFL				
OPERATOR	DAN IHDE							
WITNESSED BY	TODD HALL							
RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO	
ONE	6"	SURF	25'	2"	PVC	SURF	45'	
	4"	25'	45'					

EQUIPMENT DATA

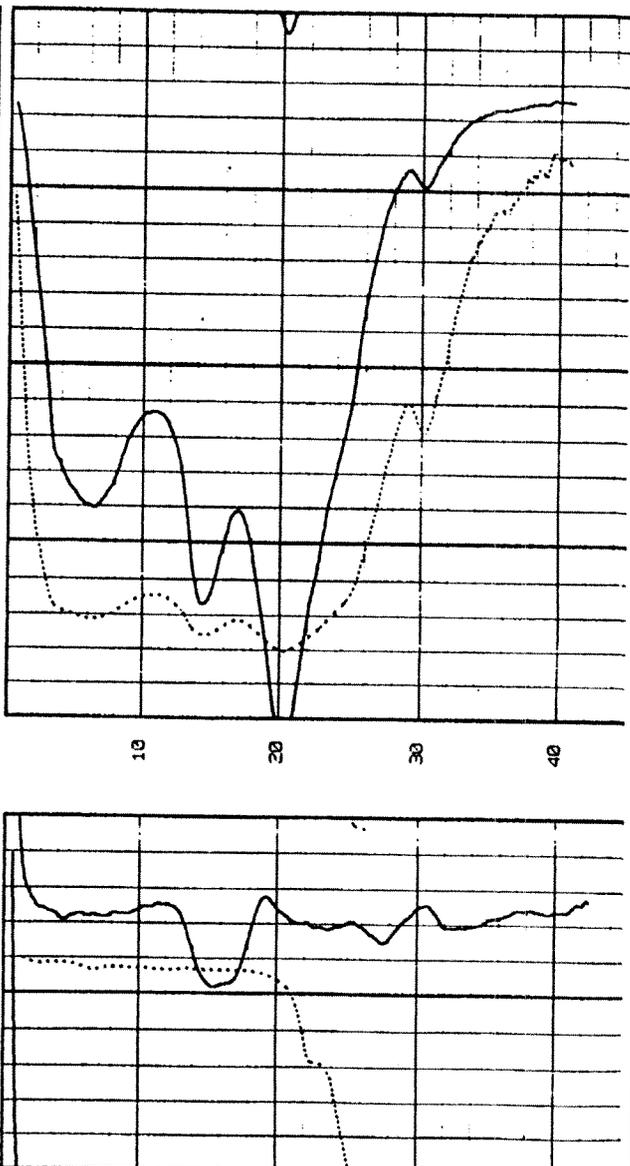
LOG TYPE	INDUCTION	GAMMA RAY	CALIPER
RUN NO.	ONE	ONE	ONE
TOOL MODEL NO.	GEONICS	MLS	MLS
TOOL SERIAL NO.	2	T-134	T-118
DIAMETER	1.25"	2.0"	1.25"
DETECTOR TYPE	COIL	SCINT	3-ARM
DETECTOR LENGTH	25"	8"	N/A
UNITS/DIV.	5 M-MHOS	20 API	5 Ohm/M
SENSITIVITY	1000	100/122	500/500
ZERO DIV L OR R	0L	0L	0L
SPEED-FPM	15	15	15
FLUID LEVEL	FULL	FULL	FULL
FORMATION FACTOR	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
		T.C. 4	T.C. 1
SOURCE TYPE	STRENGTH	SPACING	MODEL NO
			SERIAL NO.
PERFORATIONS:			
REMARKS: 2" PVC PULLED BEFORE RUNNING CALIPER. HOLE CAVED IN COULD NOT GET PAST 25'			
WELL DRILLED BY: LAYNE			
DRILLER:			
NOTICE:			
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WELenco, INC.			



INDUCTION / GAMMA RAY / CALIPER LOG

FILING NO.	COMPANY	OGDEN ENVIRONMENTAL					
	WELL	PZ-005					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES			STATE CALIFORNIA		
JOB NO.	LOCATION:	BOEING - ROCKET DYNE				OTHER SERV:	
33605	SITE:	END OF WOOLSEY CYN. RD.				DENSITY	
						NEUTRON	
PERMANENT DATUM:	GROUND LEVEL	ELEV: N/A		ELEVATION:			
				KB.			
LOG MEASURED FROM	G.L.	0 FT ABOVE PERM DATUM		DF.			
DRILLING MEASURED FROM	GROUND LEVEL			GL.			
DATE	11-10-2000	11-10-2000	11-10-2000				
TYPE OF LOG	INDUCTION	GAMMA RAY		CALIPER			
RUN NO.	ONE	ONE		ONE			
DEPTH - DRILLER	45'	45'		45'			
DEPTH - LOGGER	42.5'	42.5'		26'			
BOTTOM LOGGED INT	41'	41'		25'			
TOP LOGGED INT	0'	0'		0'			
TYPE FLUID IN HOLE	WATER	WATER		WATER			
FLUID LEVEL	FULL	FULL		FULL			
MAX TEMP DEG F	N/A	N/A		N/A			
OPERATING RIG TIME	N/A	N/A		N/A			
EQUIP.	LOCATION	L-10	BFL	L-10	BFL	L-10	BFL
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD				CASING RECORD		
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	25'	2"	PVC	SURF	45'
	4"	25'	45'				

INDUCTION CONDUCTIVITY mhos/m	0
INDUCTION RESISTIVITY Ohms/m	100
DEPTHS	100
GAMMA RAY API Units	200
CALIPER Diameter In Inches	12



INDUCTION RESISTIVITY Ohms/m	100
INDUCTION CONDUCTIVITY mhos/m	0
DEPTHS	100
Diameter In Inches CALIPER	12
API Units GAMMA RAY	200



NEUTRON / GAMMA RAY / DENSITY LOG

FILING NO.	COMPANY	OGDEN ENVIRONMENTAL					
	WELL	PZ-006					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES			STATE CALIFORNIA		
	LOCATION:	BOEING - ROCKET DYNE			OTHER SERV:		
	SITE:	END OF WOOLSEY CYN RD.			INDUCTION CALIPER		
JOB NO.	SEC	TWP	RGE				
33605							
PERMANENT DATUM: GROUND LEVEL				ELEV: N/A		ELEVATION: KB.	
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM				DF.		GL.	
DRILLING MEASURED FROM GROUND LEVEL							
DATE	11-10-2000	11-10-2000	11-10-2000				
TYPE OF LOG	GAMMA RAY	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	34'	34'	34'				
DEPTH - LOGGER	33.5'	33.5'	33.5'				
BOTTOM LOGGED INT	32'	32'	32'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	WATER	WATER	WATER				
FLUID LEVEL	FULL	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-10	BFL	L-10	BFL	L-10	BFL
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD				CASING RECORD		
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	15'	2"	PVC	SURF	34'
	4"	15'	34'	AUGER	STEEL	SURF	4'

EQUIPMENT DATA

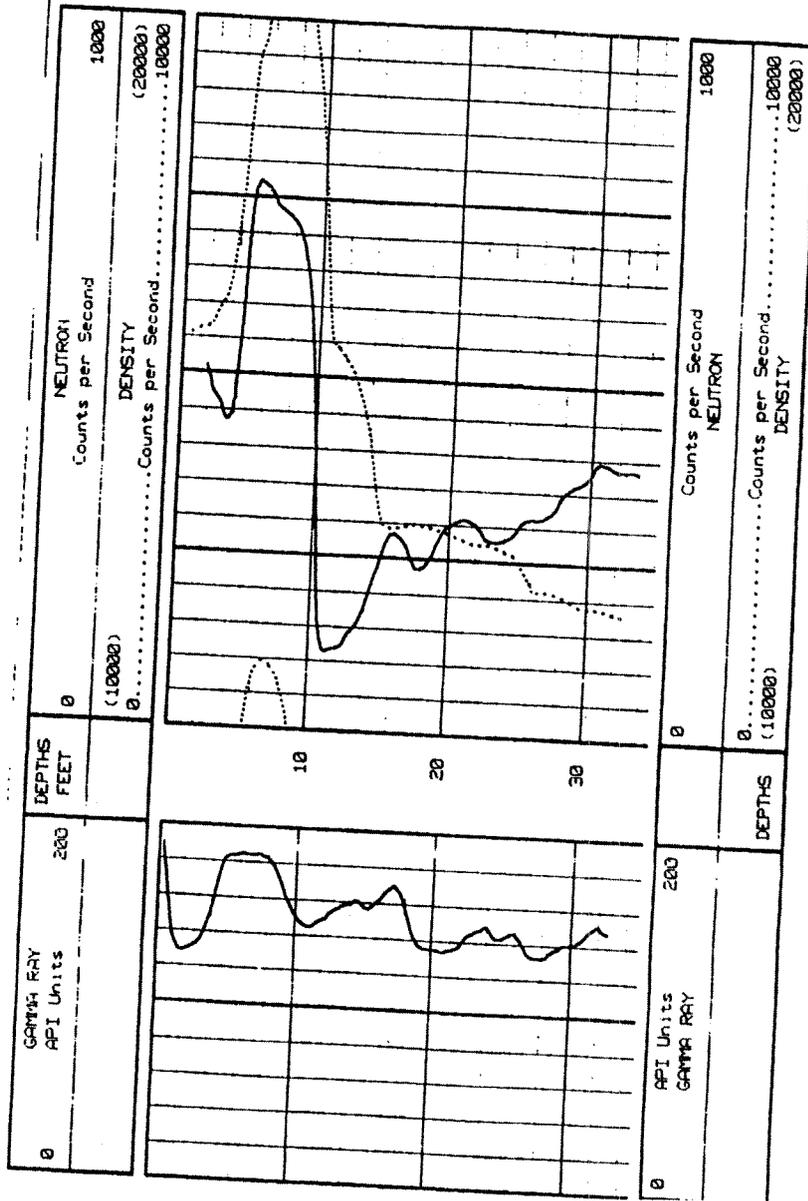
LOG TYPE	GAMMA RAY	NEUTRON	DENSITY
RUN NO.	ONE	ONE	ONE
TOOL MODEL NO.	ORE	COSMOS	ORE
TOOL SERIAL NO.	T-134	T-2	T-37
DIAMETER	1 11/16	1 11/16	1 11/16
DETECTOR TYPE	SCINT	HE3	GEIGER
DETECTOR LENGTH	4"	4"	2"
UNITS/DIV.	20 API	50 CPS	500 CPS
SENSITIVITY	100/122	1000/250	5000/250
TIME CONSTANT	4 SEC	4 SEC	4 SEC
DEFO DIV 1 GP F	0	0	0
SPEED-FPM	15	15	30
FLUID LEVEL	FULL	FULL	FULL
FORMATION FACTOR	N/A		
PUMP RATE-GPM	N/A		
PUMP RATE-GPM	N/A		
PUMP RATE-GPM	N/A		
SOURCE TYPE	STRENGTH	SPACING	MODEL NO
AM-241-BE	3 CURIE	13"	71-1
CS-137	125 MCI	13"	F1-VD-HP
			B-030
PERFORATIONS:			
REMARKS: 2" PVC FILLED WITH WATER PRIOR TO RUNNING NEUTRON AND DENSITY			
WELL DRILLED BY: LAYNE			
DRILLER:			
NOTICE:			
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WELLENCO, INC.			



NEUTRON / GAMMA RAY / DENSITY LOG

FILING NO.	COMPANY OGDEN ENVIRONMENTAL						
	WELL PZ-006						
JOB NO. 33605	FIELD SANTA SUSANA FIELD LAB		OTHER SERV: INDUCTION CALIPER				
	COUNTY LOS ANGELES STATE CALIFORNIA						
PERMANENT DATUM: GROUND LEVEL	ELEV: N/A		ELEVATION: KR. DF. GL.				
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM							
DRILLING MEASURED FROM GROUND LEVEL							
DATE	11-10-2000	11-10-2000	11-10-2000				
TYPE OF LOG	GAMMA RAY	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	34'	34'	34'				
DEPTH - LOGGER	33.5'	33.5'	33.5'				
BOTTOM LOGGED INT	32'	32'	32'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	WATER	WATER	WATER				
FLUID LEVEL	FULL	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-10	BFL				
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	15'	2"	PVC	SURF	34'
	4"	15'	34'	AUGER	STEEL	SURF	4'

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INDUCTION / GAMMA RAY / CALIPER LOG

FILING NO. COMPANY OGDEN ENVIRONMENTAL
 WELL PZ-006
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKET DYNE
 SITE. END OF WOOLSEY CYN. RD. OTHER SERV:
 DENSITY
 NEUTRON

JOB NO. 33605
 SEC TWP RGE

PERMANENT DATUM: GROUND LEVEL ELEV: N/A ELEVATION:
 KB.
 LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM DF.
 DRILLING MEASURED FROM GROUND LEVEL GL.

DATE	11-10-2000	11-10-2000	11-10-2000
TYPE OF LOG	INDUCTION	GAMMA RAY	CALIPER
RUN NO.	ONE	ONE	ONE
DEPTH - DRILLER	34'	34'	34'
DEPTH - LOGGER	33.5'	33.5'	33.5'
BOTTOM LOGGED INT	31.5'	32'	32.5'
TOP LOGGED INT	4'	0'	0'
TYPE FLUID IN HOLE	WATER	WATER	WATER
FLUID LEVEL	FULL	FULL	FULL
MAX TEMP DEG F	N/A	N/A	N/A
OPERATING RIG TIME	N/A	N/A	N/A
EQUIP.	L-10	BFL	L-10 BFL
OPERATOR	DAN IHDE		
WITNESSED BY	TODD HALL		

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	15'	2"	PVC	SURF	34'
	4"	15'	34'	AUGER	STEEL	SURF	4'

EQUIPMENT DATA

LOG TYPE	INDUCTION	GAMMA RAY	CALIPER
RUN NO.	ONE	ONE	ONE
TOOL MODEL NO.	GEONICS	MLS	MLS
TOOL SERIAL NO.	2	T-134	T-118
DIAMETER	1.25"	2.0"	1.25"
DETECTOR TYPE	COIL	SCINT	3-ARM
DETECTOR LENGTH	25"	8"	N/A
UNITS/DIV.	5 M-MHOS	20 API	5 Ohm/M
SENSITIVITY	1000	100/122	500/500
ZERO DIV L OR P	0L	0L	0L
SPEED-FPM	15	15	15
FLUID LEVEL	FULL	FULL	FULL
FORMATION FACTOR	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
		T.C. 4	T.C.)

SOURCE TYPE	STRENGTH	SPACING	MODEL NO.	SERIAL NO.

PERFORATIONS:

REMARKS: 2" PVC PULLED BEFORE RUNNING CALIPER.

WELL DRILLED BY: LAYNE

DRILLER:

NOTICE:

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WELENCO, INC.



INDUCTION / GAMMA RAY / CALIPER LOG

FILING NO. COMPANY OGDEN ENVIRONMENTAL
 WELL PZ-005
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

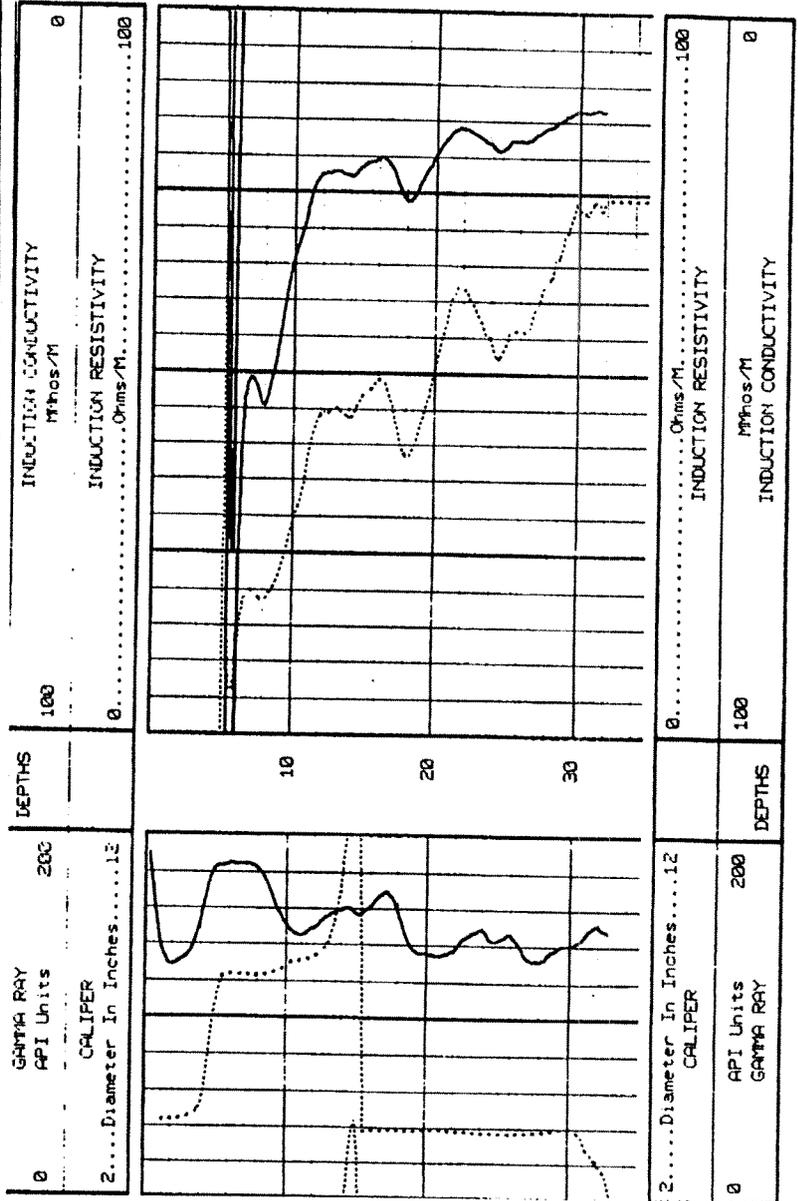
LOCATION: BOEING - ROCKET DYNE
 SITE: END OF WOOLSEY CYN. RD. OTHER SERV:
 DENSITY
 NEUTRON

JOB NO. 33605
 SEC TWP RGE

PERMANENT DATUM: GROUND LEVEL ELEV: N/A ELEVATION:
 KB.
 LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM DF.
 DRILLING MEASURED FROM GROUND LEVEL GL.

DATE	11-10-2000	11-10-2000	11-10-2000
TYPE OF LOG	INDUCTION	GAMMA RAY	CALIPER
RUN NO.	ONE	ONE	ONE
DEPTH - DRILLER	34'	34'	34'
DEPTH - LOGGER	33.5'	33.5'	33.5'
BOTTOM LOGGED INT	31.5'	32'	32.5'
TOP LOGGED INT	4'	0'	0'
TYPE FLUID IN HOLE	WATER	WATER	WATER
FLUID LEVEL	FULL	FULL	FULL
MAX TEMP DEG F	N/A	N/A	N/A
OPERATING RIG TIME	N/A	N/A	N/A
EQUIP. LOCATION	L-10 BFL	L-10 BFL	L-10 BFL
OPERATOR	DAN IHDE		
WITNESSED BY	TODD HALL		

RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO	
ONE	6"	SURF	15'	2"	PVC	SURF	34'	
	4"	15'	34'	AUGER	STEEL	SURF	4'	





NEUTRON / GAMMA RAY / DENSITY LOG

FILING NO. COMPANY OGDEN ENVIRONMENTAL
 WELL PC-007
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKET DYNE
 SITE. END OF WOOLSEY CYN RD. OTHER SERV:
 INDUCTION
 CALIPER

JOB NO. 33605 SEC TWP RGE

PERMANENT DATUM: GROUND LEVEL ELEV: N/A ELEVATION:
 LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM KB.
 DRILLING MEASURED FROM GROUND LEVEL DF.
 GL.

DATE	11-10-2000	11-10-2000	11-10-2000				
TYPE OF LOG	GAMMA RAY	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	44'	44'	44'				
DEPTH - LOGGER	43.5'	43.5'	43.5'				
BOTTOM LOGGED INT	42'	42'	42'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	WATER	WATER	WATER				
FLUID LEVEL	FULL	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-10	BFL				
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD		CASING RECORD				
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6" SURF	35'	44'	2"	PVC	SURF	44'
	4"	35'	44'				

EQUIPMENT DATA

LOG TYPE	GAMMA RAY	NEUTRON	DENSITY	
RUN NO.	ONE	ONE	ONE	
TOOL MODEL NO.	ORE	COSMOS	ORE	
TOOL SERIAL NO.	T-134	T-2	T-37	
DIAMETER	1 11/16	1 11/16	1 11/16	
DETECTOR TYPE	SCINT	HE3	GEIGER	
DETECTOR LENGTH	4"	4"	2"	
UNITS/DIV.	20 API	50 CPS	500 CPS	
SENSITIVITY	100/122	1000/250	5000/250	
TIME CONSTANT	4 SEC	4 SEC	4 SEC	
ZERO DIV L OP P	0	0	0	
SPEED-FPM	15	15	30	
FLUID LEVEL	FULL	FULL	FULL	
FORMATION FACTOR	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.
AM-241-BE	3 CURIE	13"	71-1	228
CS-137	125 MCI	13"	FI-VD-HP	B-030

PERFORATIONS:

REMARKS: 2" PVC FILLED WITH WATER PRIOR TO RUNNING
 NEUTRON AND DENSITY

WELL DRILLED BY: LAYNE

DRILLER:

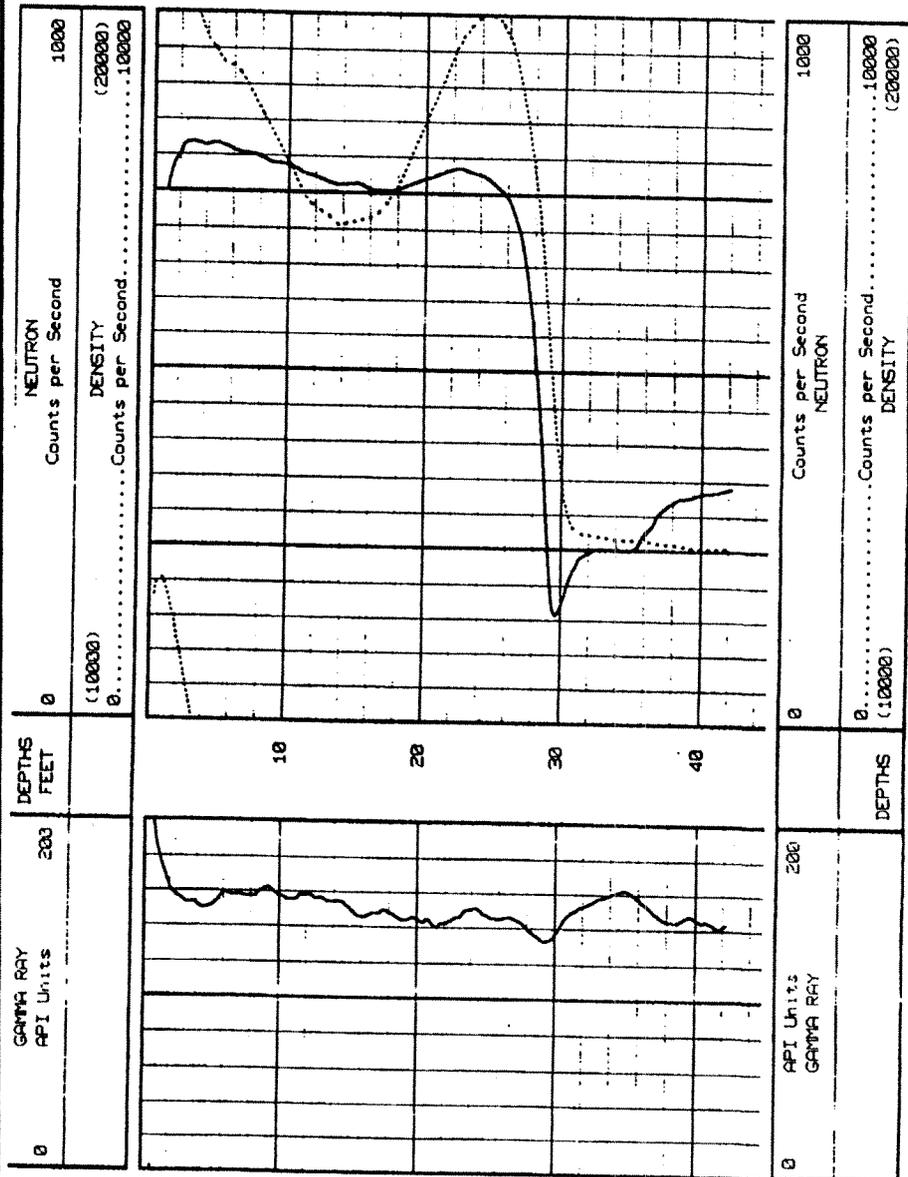
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WELLENCO, INC.



NEUTRON / GAMMA RAY / DENSITY LOG

FILING NO.	COMPANY	OGDEN ENVIRONMENTAL					
	WELL	PD-007					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE CALIFORNIA				
	LOCATION:	BOEING - ROCKET DYNE		OTHER SERV:			
	SITE:	END OF WOOLSEY CYN RD.		INDUCTION CALIPER			
JOB NO.	SEC	TWP	RGE				
33605							
PERMANENT DATUM:		GROUND LEVEL	ELEV: N/A	ELEVATION:			
				KB.			
LOG MEASURED FROM G.L.		0 FT ABOVE PERM DATUM		DF.			
DRILLING MEASURED FROM		GROUND LEVEL		GL.			
DATE	11-10-2000	11-10-2000	11-10-2000				
TYPE OF LOG	GAMMA RAY	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	44'	44'	44'				
DEPTH - LOGGER	43.5'	43.5'	43.5'				
BOTTOM LOGGED INT	42'	42'	42'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	WATER		WATER				
FLUID LEVEL	FULL		FULL				
MAX TEMP DEG F	N/A		N/A				
OPERATING RIG TIME	N/A		N/A				
EQUIP.	LOCATION	L-10	BFL	L-10			
				BFL			
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	35'	2"	PVC	SURF	44'
	4"	35'	44'				





INDUCTION / GAMMA RAY / CALIPER LOG

FILING NO.	COMPANY OGDEN ENVIRONMENTAL						
	WELL	PZ-007					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE CALIFORNIA				
	LOCATION:	BOEING - BUCKET DYNE	OTHER SERV:				
	SITE:	END OF WOOLSEY CYN. RD.	DENSITY				
			NEUTRON				
JOB NO.	SEC	TWP	RGE				
33605							
PERMANENT DATUM: GROUND LEVEL		ELEV: N/A	ELEVATION:				
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM			KB.				
DRILLING MEASURED FROM GROUND LEVEL			DF.				
			GL.				
DATE	11-10-2000	11-10-2000	11-10-2000				
TYPE OF LOG	INDUCTION	GAMMA RAY	CALIPER				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLED	44'	44'	44'				
DEPTH - LOGGER	43.5'	43.5'	35'				
BOTTOM LOGGED INT	41.5'	42'	34'				
TOP LOGGED INT	4'	0'	0'				
TYPE FLUID IN HOLE	WATER	WATER	WATER				
FLUID LEVEL	FULL	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-10	BFL				
OPERATOR	DAN INDE	L-10	BFL				
WITNESSED BY	TODD HALL	L-10	BFL				
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	35'	2"	PVC	SURF	44'
	4"	35'	44'				

EQUIPMENT DATA

LOG TYPE	INDUCTION	GAMMA RAY	CALIPER
RUN NO.	ONE	ONE	ONE
TOOL MODEL NO.	GEONICS	MLS	MLS
TOOL SERIAL NO.	2	T-134	T-118
DIAMETER	1.25"	2.0"	1.25"
DETECTOR TYPE	COIL	SCINT	3-ARM
DETECTOR LENGTH	25"	8"	N/A
UNITS/DIV.	5 M-MHOS	20 API	5 Ohm/M
SENSITIVITY	1000	100/122	500/500
ZEPO DIV L OR R	0L	0L	0L
SPEED-FPM	15	15	15
FLUID LEVEL	FULL	FULL	FULL
FORMATION FACTOR	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
		T.C. 4	T.I. 1
SOURCE TYPE	STRENGTH	SPACING	MODEL NO.
			SERIAL NO.
PEFFORATIONS:			
REMARKS: 2" PVC FILLED BEFORE RUNNING (M:111) HOLE CAVED IN COULD NOT GET FASR 35'			
WELL DRILLED BY: LAYNE			
DRILLER:			
NOTICE:			
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WELenco, INC.			



INDUCTION / GAMMA RAY / CALIPER LOG

FILING NO.	COMPANY OGDEN ENVIRONMENTAL							
	WELL PZ-007							
JOB NO. 33605	FIELD SANTA SUSANA FIELD LAB		STATE CALIFORNIA					
	COUNTY LOS ANGELES							
LOCATION: BOEING - POCKET DYNE SITE: END OF WOOLSEY CYN. PD.		OTHER SERV: DENSITY NEUTRON						
PERMANENT DATUM: GROUND LEVEL	ELEV: N/A		ELEVATION: KR. DF. GL.					
LOG MEASURED FROM G.L. 0 FT ABOVE FERM DATUM	DRILLING MEASURED FROM GROUND LEVEL							
DATE	11-10-2000	11-10-2000	11-10-2000					
TYPE OF LOG	INDUCTION	GAMMA RAY	CALIPER					
RUN NO.	ONE	ONE	ONE					
DEPTH - DRILLER	44'	44'	44'					
DEPTH - LOGGER	43.5'	43.5'	35'					
BOTTOM LOGGED INT	41.5'	42'	34'					
TOP LOGGED INT	4'	0'	0'					
TYPE FLUID IN HOLE	WATER		WATER					
FLUID LEVEL	FULL		FULL					
MAX TEMP DEG F	N/A		N/A					
OPERATING RIG TIME	N/A		N/A					
EQUIP.	LOCATION	L-10	BFL					
OPERATOR	DAN IHDE							
WITNESSED BY	TODD HALL							
RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO	
ONE	6"	SURF	35'	2"	PVC	SURF	44'	
	4"	35'	44'					

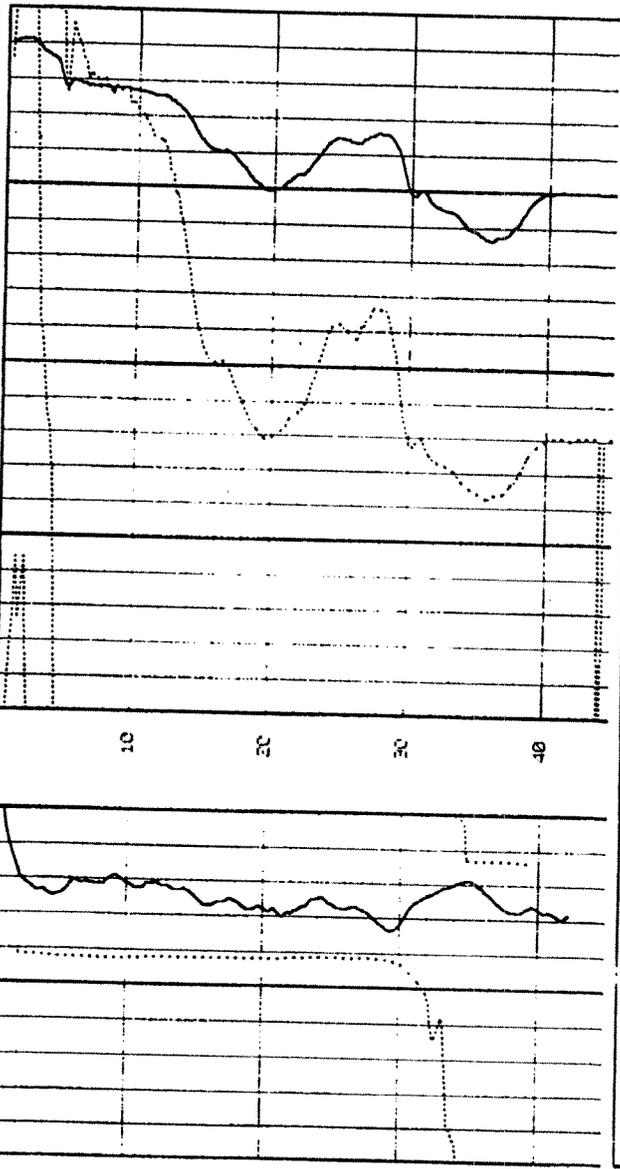
INDUCTION CONDUCTIVITY
mhos/M

INDUCTION RESISTIVITY
ohms/M

DEPTHS

GAMMA RAY
API Units

CALIPER
Diameter In Inches.....12



INDUCTION RESISTIVITY
ohms/M

INDUCTION CONDUCTIVITY
mhos/M

DEPTHS

Diameter In Inches.....12
CALIPER

API Units
GAMMA RAY



NEUTRON / DENSITY / CALIPER LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL					
	WELL	PZ-008					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE	CALIFORNIA			
	LOCATION:	BOEING - ROCKETDYNE END OF WOOLSEY CYN RD.		OTHER SERV: INDUCTION			
JOB NO.	SEC	TWP	RGE				
33675							
PERMANENT DATUM:	GROUND LEVEL	ELEV:	N/A				
LOG MEASURED FROM	G.L. 0 FT ABOVE PERM DATUM						
DRILLING MEASURED FROM	GROUND LEVEL						
DATE	11-29-2000	11-29-2000	11-29-2000				
TYPE OF LOG	CALIPER	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	73'	73'	73'				
DEPTH - LOGGER	73'	73'	73'				
BOTTOM LOGGED INT	72'	71.5'	71.5'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER				
FLUID LEVEL	N/A	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-15	BFL	L-15	BFL	L-15	BFL
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	33'	2"	PVC	SURF	73'
	6"	33'	73'	AUGER	STEEL	SURF	20'

EQUIPMENT DATA

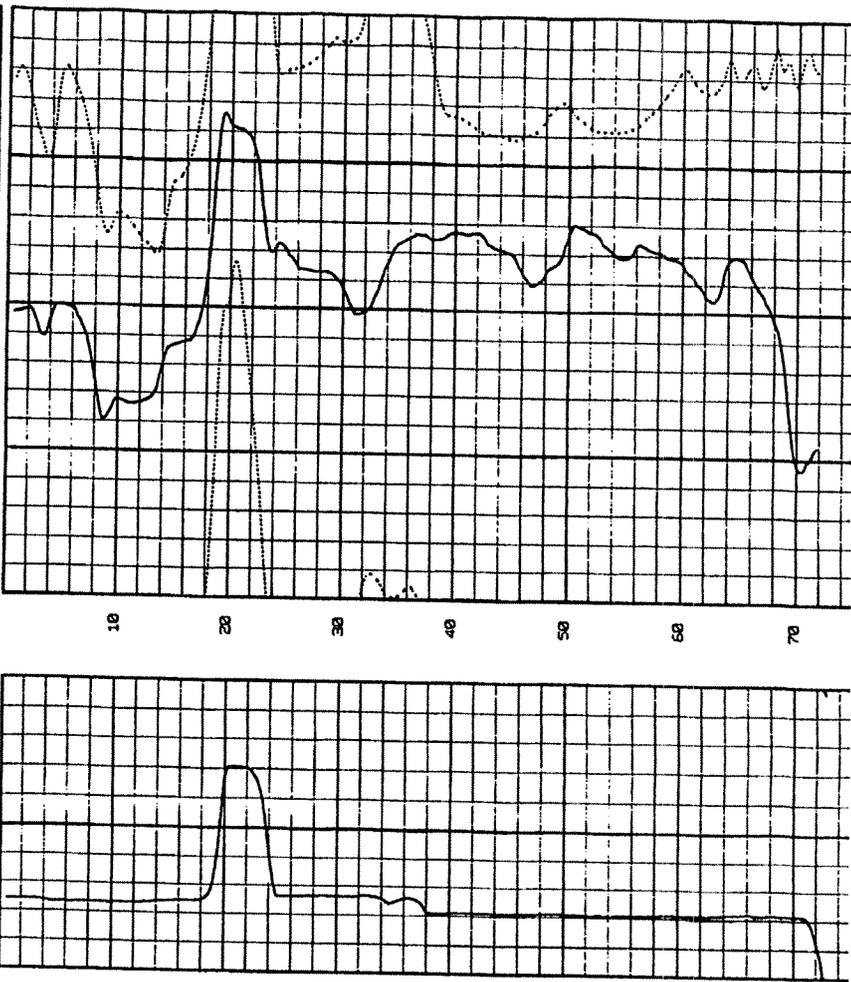
LOG TYPE	CALIPER	NEUTRON	DENSITY	
RUN NO.	ONE	ONE	ONE	
TOOL MODEL NO.	MLS	COSMOS	ORE	
TOOL SERIAL NO.	T-118	T-2	T-37	
DIAMETER	1 3/8"	1 11/16"	1 11/16"	
DETECTOR TYPE	3 ARM	HE3	GEIGER	
DETECTOR LENGTH	N/A	4"	2"	
UNITS/DIV.	1 INCH	50 CPS	1000 CPS	
SENSITIVITY	500/500	1000/250	5000/250	
TIME CONSTANT	1 SEC	4 SEC	4 SEC	
ZERO DIV L OR R	0	0	0	
SPEED-FPM	15	15	15	
FLUID LEVEL	N/A	FULL	FULL	
FORMATION FACTOR	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.
AM-241-BE	3 CURIE	13"	71-1	228
CS-137	125 MCI	13"	FI-VD-HP	B-030
PERFORATIONS:				
REMARKS: 2" PVC FILLED WITH WATER PRIOR TO RUNNING NEUTRON AND DENSITY. PVC PULLED PRIOR TO CALIPER, WELL DRILLED BY: LAYNE				
DRILLER:				
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WELLENCO, INC				



NEUTRON / DENSITY / CALIPER LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL						
	WELL	PZ-000						
	FIELD	SANTA SUSANA FIELD LAB						
	COUNTY	LOS ANGELES	STATE	CALIFORNIA				
	LOCATION:	BOEING - ROCKETDYNE		OTHER SERV:				
		END OF WOOLSEY CYN RD.		INDUCTION				
JOB NO.	SEC	TMP	RGE					
33675								
PERMANENT DATUM:	GROUND LEVEL	ELEV:	N/A	ELEVATION:				
				KB.				
LOG MEASURED FROM	G.L. 0 FT ABOVE PERM DATUM			DF.				
DRILLING MEASURED FROM	GROUND LEVEL			GL.				
DATE	11-29-2000	11-29-2000	11-29-2000					
TYPE OF LOG	CALIPER	NEUTRON	DENSITY					
RUN NO.	ONE	ONE	ONE					
DEPTH - DRILLER	73'	73'	73'					
DEPTH - LOGGER	73'	73'	73'					
BOTTOM LOGGED INT	72'	71.5'	71.5'					
TOP LOGGED INT	0'	0'	0'					
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER					
FLUID LEVEL	N/A	FULL	FULL					
MAX TEMP DEG F	N/A	N/A	N/A					
OPERATING RIG TIME	N/A	N/A	N/A					
EQUIP.	LOCATION	L-15	BFL	L-15				
				BFL				
OPERATOR	DAN INDE							
WITNESSED BY	TODD HALL							
RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO	
ONE	5"	SURF	33'	2"	PVC	SURF	73'	
	6"	33'	73'	AUGER	STEEL	SURF	20'	

NEUTRON Counts per Second (40000) 10000
 DENSITY Counts per Second (20000) 0
 DEPTH FEET 0
 CALIPER Diameter In Inches 12
 2 Diameter In Inches CALIPER



Counts per Second NEUTRON 10000
 Counts per Second DENSITY (20000) 0
 DEPTH 0
 Diameter In Inches CALIPER 12
 DEPTH



INDUCTION LOG

FILING NO. COMPANY AMEC EARTH & ENVIRONMENTAL
 WELL PZ-008
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE
 END OF WOOLSEY CYN RD.
 CHARNOCK
 OTHER SERV:
 NEUTRON
 DENSITY
 CALIPER

JOB NO. 33675
 SEC TWP RGE

PERMANENT DATUM: GROUND LEVEL ELEV: N/A
 LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM
 DRILLING MEASURED FROM GROUND LEVEL
 ELEVATION:
 KB.
 DF.
 GL.

DATE	11-29-2000		
TYPE OF LOG	INDUCTION		
RUN NO.	ONE		
DEPTH - DRILLER	73'		
DEPTH - LOGGER	73'		
BOTTOM LOGGED INT	71'		
TOP LOGGED INT	18'		
TYPE FLUID IN HOLE	AIR/WATER		
FLUID LEVEL	N/A		
MAX TEMP DEG F	N/A		
OPERATING RIG TIME	N/A		
EQUIP.	LOCATION	L-15	BFL
OPERATOR	DAN IHDE		
WITNESSED BY	TODD HALL		

RUN NO.	BORE HOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	TYPE	FROM TO
ONE	6"	SURF	33'	2"	PVC	SURF 73'
	5"	33'	73'	AUGER	STEEL	SURF 20'

EQUIPMENT DATA

LOG TYPE	INDUCTION	RESISTIVITY
RUN NO.	ONE	ONE
TOOL MODEL NO.	GEONICS	GEONICS
TOOL SERIAL NO.	2	2
DIAMETER	1.25"	1.25"
DETECTOR TYPE	COIL	COIL
DETECTOR LENGTH	25"	25"
UNITS/DIV.	5 M-MHOS	5 OHM-M
SENSITIVITY	1000	1000
ZERO DIV L OR R	0L	0L
SPEED-FPM	15	15
FLUID LEVEL	N/A	N/A
FORMATION FACTOR	N/A	N/A
PUMP RATE-GPM	N/A	N/A
PUMP RATE-GPM	N/A	N/A
PUMP RATE-GPM	N/A	N/A

SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.

PERFORATIONS:

REMARKS:

WELL DRILLED BY: LAYNE
 DRILLER:

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WELLENCO, INC.



INDUCTION LOG

FILING NO. COMPANY AMEC EARTH & ENVIRONMENTAL
 WELL PZ-00B
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE
 END OF WOOLSEY CYN RD.
 CHARNOCK
 OTHER SERV:
 NEUTRON
 DENSITY
 CALIPER

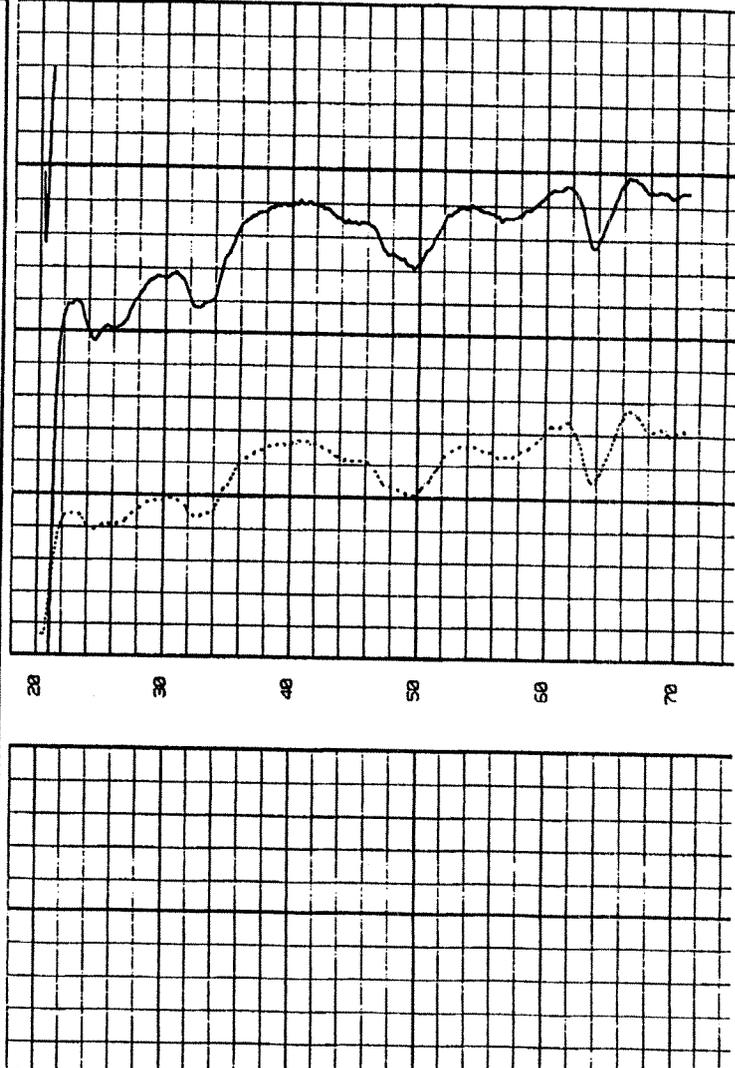
JOB NO. 33675
 SEC TWP RGE
 PERMANENT DATUM: GROUND LEVEL ELEV: N/A

LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM
 DRILLING MEASURED FROM GROUND LEVEL

DATE	11-29-2000
TYPE OF LOG	INDUCTION
RUN NO.	ONE
DEPTH - DRILLER	73'
DEPTH - LOGGER	73'
BOTTOM LOGGED INT	71'
TOP LOGGED INT	18'
TYPE FLUID IN HOLE	AIR/WATER
FLUID LEVEL	N/A
MAX TEMP DEG F	N/A
OPERATING RIG TIME	N/A
EQUIP. LOCATION	L-15 BFL
OPERATOR	DAN IHDE
WITNESSED BY	TODD HALL

RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO	
ONE	6"	SURF	33'	2"	PVC	SURF	73'	
	5"	33'	73'	AUGER	STEEL	SURF	20'	

INDUCTION CONDUCTIVITY (0) 0 Mhos/m
 INDUCTION RESISTIVITY (1000) (0) 100 Ohms/m
 DEPTHS (1000) 100 (0) 0



DEPTHS (0) 0
 INDUCTION RESISTIVITY (1000) (0) 100
 INDUCTION CONDUCTIVITY (0) 0 Mhos/m



NEUTRON / DENSITY / CALIPER LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL					
	WELL	PZ-011					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE CALIFORNIA				
	LOCATION:	BOEING - ROCKETDYNE END OF WOOLSEY CYN RD.		OTHER SERV: INDUCTION			
JOB NO. 33675	SEC	TWP	RGE				
PERMANENT DATUM: GROUND LEVEL		ELEV: N/A		ELEVATION: KB. _____			
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM		DF. _____		GL. _____			
DRILLING MEASURED FROM GROUND LEVEL							
DATE	11-29-2000	11-29-2000	11-29-2000				
TYPE OF LOG	CALIPER	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	53.5'	53.5'	53.5'				
DEPTH - LOGGER	32'	53'	53'				
BOTTOM LOGGED INT	31'	51.5'	51.5'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER				
FLUID LEVEL	N/A	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-15	BFL	L-15 BFL			
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	33'	2"	PVC	SURF	53.5'
	6"	33'	53.5'				

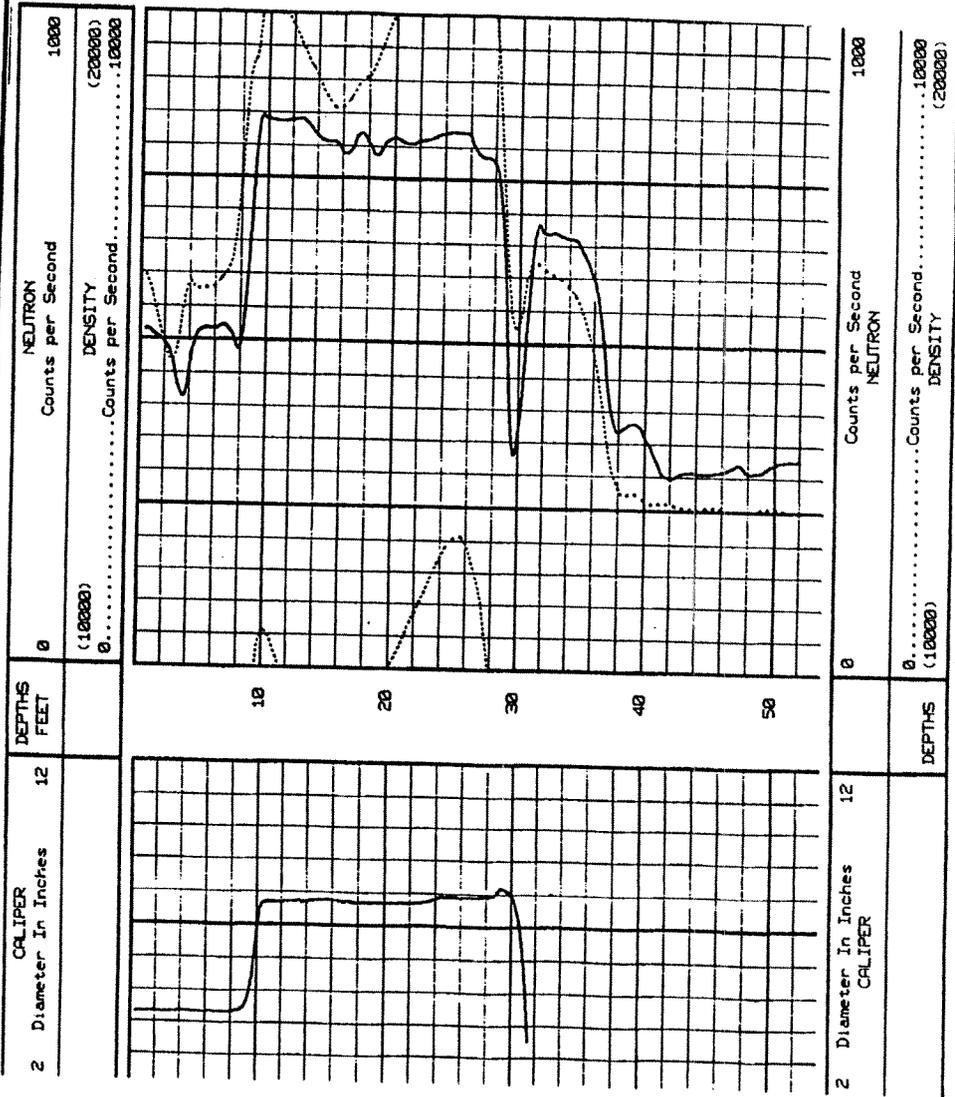
EQUIPMENT DATA

LOG TYPE	CALIPER	NEUTRON	DENSITY	
RUN NO.	ONE	ONE	ONE	
TOOL MODEL NO.	MLS	COSMOS	ORE	
TOOL SERIAL NO.	T-118	T-2	T-37	
DIAMETER	1 3/8"	1 11/16"	1 11/16"	
DETECTOR TYPE	3 ARM	HE3	GEIGER	
DETECTOR LENGTH	N/A	4"	2"	
UNITS/DIV.	1 INCH	50 CPS	500 CPS	
SENSITIVITY	500/500	1000/250	5000/500	
TIME CONSTANT	1 SEC	4 SEC	4 SEC	
ZERO DIV L OR R	0	0	0	
SPEED-FPM	15	15	15	
FLUID LEVEL	N/A	FULL	FULL	
FORMATION FACTOR	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.
AM-241-BE	3 CURIE	13"	71-1	228
CS-137	125 MCI	13"	F1-VD-HP	B-030
PERFORATIONS:				
REMARKS: 2" PVC FILLED WITH WATER PRIOR TO RUNNING NEUTRON AND DENSITY. PVC PULLED PRIOR TO CALIPER, WELL DRILLED BY: LAYNE DRILLER:				
NOTICE: All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.				
WELLENCO, INC.				



NEUTRON / DENSITY / CALIPER LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL			
	WELL	PZ-011			
	FIELD	SANTA SUSANA FIELD LAB			
	COUNTY	LOS ANGELES	STATE	CALIFORNIA	
LOCATION: BOEING - ROCKETDYNE END OF WOOLSEY CYN RD.		OTHER SERV: INDUCTION			
JOB NO. 93675	SEC	TWP	RGE		
PERMANENT DATUM: GROUND LEVEL		ELEV: N/A		ELEVATION: KB. DF. GL.	
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM					
DRILLING MEASURED FROM GROUND LEVEL					
DATE	11-29-2000	11-29-2000	11-29-2000		
TYPE OF LOG	CALIPER	NEUTRON	DENSITY		
RUN NO.	ONE	ONE	ONE		
DEPTH - DRILLER	53.5'	53.5'	53.5'		
DEPTH - LOGGER	32'	53'	53'		
BOTTOM LOGGED INT	31'	51.5'	51.5'		
TOP LOGGED INT	0'	0'	0'		
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER		
FLUID LEVEL	N/A	FULL	FULL		
MAX TEMP DEG F	N/A	N/A	N/A		
OPERATING RIG TIME	N/A	N/A	N/A		
EQUIP.	LOCATION	L-15	BFL	L-15 BFL	
OPERATOR	DAN IHDE				
WITNESSED BY	TODD HALL				
RUN NO.	BORE HOLE RECORD			CASING RECORD	
	BIT	FROM	TO	SIZE	TYPE FROM TO
ONE	5"	SURF	33'	2"	PVC SURF 53.5'
	6"	33'	53.5'		





INDUCTION LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL					
	WELL	PZ-011					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE CALIFORNIA				
JOB NO.	LOCATION:	BOEING - ROCKETDYNE END OF WOOLSEY CYN RD. CHARNOCK				OTHER SERV: NEUTRON DENSITY CALIPER	
33675	SEC	TWP	RGE		ELEVATION:		
	PERMANENT DATUM:	GROUND LEVEL	ELEV: N/A		KB.		
	LOG MEASURED FROM	G.L. 0 FT ABOVE PERM DATUM				DF.	
	DRILLING MEASURED FROM	GROUND LEVEL				GL.	
DATE	11-29-2000						
TYPE OF LOG	INDUCTION						
RUN NO.	ONE						
DEPTH - DRILLER	53.5'						
DEPTH - LOGGER	53'						
BOTTOM LOGGED INT	51'						
TOP LOGGED INT	8'						
TYPE FLUID IN HOLE	AIR/WATER						
FLUID LEVEL	N/A						
MAX TEMP DEG F	N/A						
OPERATING RIG TIME	N/A						
EQUIP.	LOCATION	L-15	BFL				
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD				CASING RECORD		
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	33'	2"	PVC	SURF	53.5'
	5"	33'	53.5'	AUGER	STEEL	SURF	10'

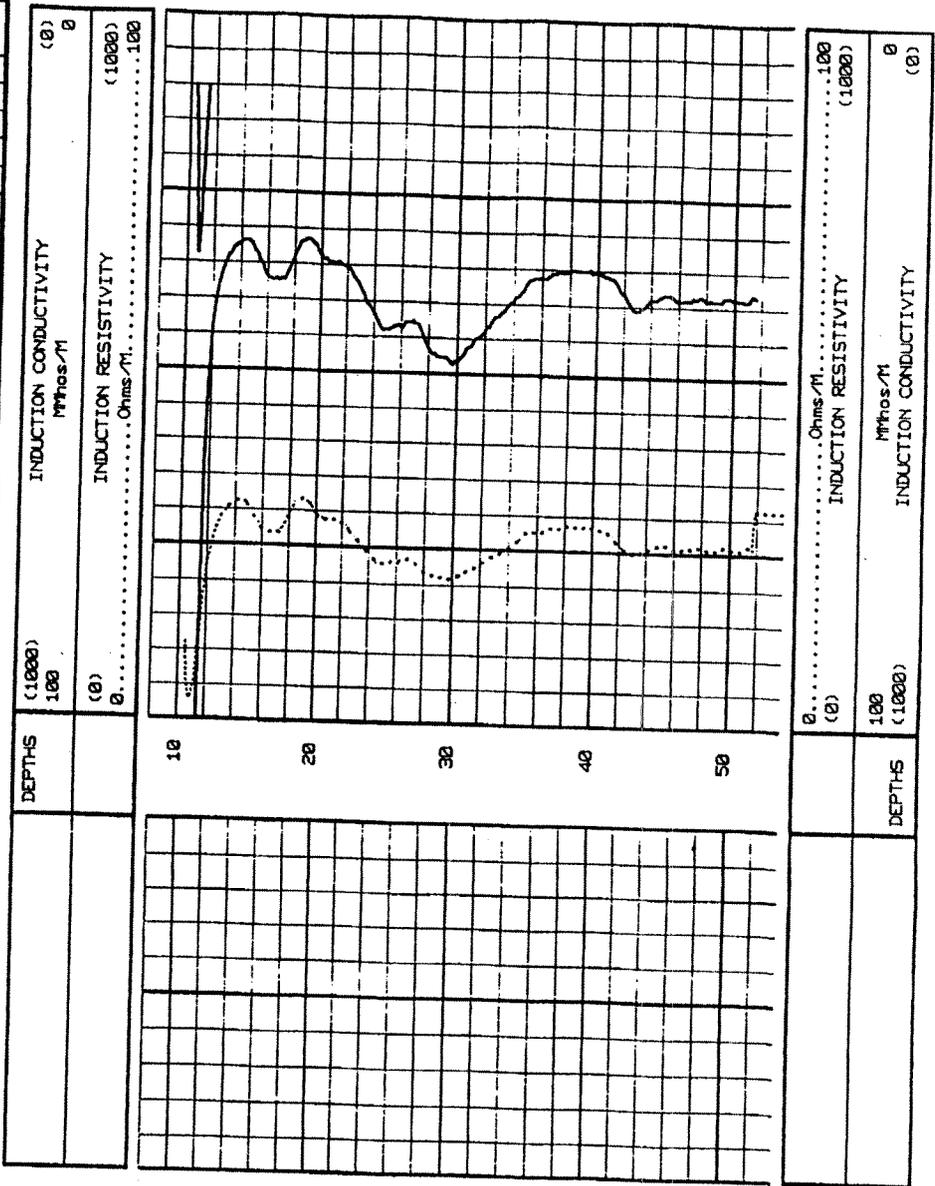
EQUIPMENT DATA

LOG TYPE	INDUCTION			RESISTIVITY
RUN NO.	ONE			ONE
TOOL MODEL NO.	GEONICS			GEONICS
TOOL SERIAL NO.	2			2
DIAMETER	1.25"			1.25"
DETECTOR TYPE	COIL			COIL
DETECTOR LENGTH	25"			25"
UNITS/DIV.	5 M-MHOS			5 OHM-M
SENSITIVITY	1000			1000
ZERO DIV L OR R	0L			0L
SPEED-FPM	15			15
FLUID LEVEL	N/A	N/A	N/A	N/A
FORMATION FACTOR	N/A	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A	N/A
SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.
PERFORATIONS:				
REMARKS:				
WELL DRILLED BY: LAYNE				
DRILLER:				
NOTICE:				
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WELenco, INC.				



INDUCTION LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL					
	WELL	PZ-011					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE		CALIFORNIA		
	LOCATION:	BOEING - ROCKETDYNE END OF WOOLSEY CYN RD. CHARNOCK			OTHER SERV: NEUTRON DENSITY CALIPER		
JOB NO. 33675	SEC	TWP	RGE				
PERMANENT DATUM: GROUND LEVEL				ELEV: N/A		ELEVATION: KB. DF. GL.	
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM							
DRILLING MEASURED FROM GROUND LEVEL							
DATE	11-29-2000						
TYPE OF LOG	INDUCTION						
RUN NO.	ONE						
DEPTH - DRILLER	53.5'						
DEPTH - LOGGER	53'						
BOTTOM LOGGED INT	51'						
TOP LOGGED INT	8'						
TYPE FLUID IN HOLE	AIR/WATER						
FLUID LEVEL	N/A						
MAX TEMP DEG F	N/A						
OPERATING RIG TIME	N/A						
EQUIP.	LOCATION	L-15	BFL				
OPERATOR		DAN INDE					
WITNESSED BY		TODD HALL					
RUN NO.	BORE HOLE RECORD				CASING RECORD		
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	33'	2"	PVC	SURF	53.5'
	5"	33'	53.5'	AUGER	STEEL	SURF	10'





NEUTRON / DENSITY / CALIPER LOG

FILING NO. COMPANY AMEC EARTH & ENVIRONMENTAL
 WELL PZ-012
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE OTHER SERV:
END OF WOOLSEY CYN RD. INDUCTION

JOB NO. 33675
 SEC TUP TWP RGE

PERMANENT DATUM: GROUND LEVEL ELEV: N/A ELEVATION:
 KB. _____
 LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM DF. _____
 DRILLING MEASURED FROM GROUND LEVEL GL. _____

DATE	11-28-2000	11-28-2000	11-28-2000
TYPE OF LOG	CALIPER	NEUTRON	DENSITY
RUN NO.	ONE	ONE	ONE
DEPTH - DRILLER	29'	29'	29'
DEPTH - LOGGER	21'	29'	29'
BOTTOM LOGGED INT	20'	27.5'	27.5'
TOP LOGGED INT	0'	0'	0'
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER
FLUID LEVEL	N/A	FULL	FULL
MAX TEMP DEG F	N/A	N/A	N/A
OPERATING RIG TIME	N/A	N/A	N/A
EQUIP.	LOCATION	L-15	BFL
OPERATOR	DAN IHDE		
WITNESSED BY	TODD HALL		

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	20'	2"	PVC	SURF	29'
	5"	20'	29'				

EQUIPMENT DATA

LOG TYPE	CALIPER	NEUTRON	DENSITY	
RUN NO.	ONE	ONE	ONE	
TOOL MODEL NO.	MLS	COSMOS	ORE	
TOOL SERIAL NO.	T-118	T-2	T-37	
DIAMETER	1 3/8"	1 11/16"	1 11/16"	
DETECTOR TYPE	3 ARM	HE3	GEIGER	
DETECTOR LENGTH	N/A	4"	2"	
UNITS/DIV.	1 INCH	50 CPS	500 CPS	
SENSITIVITY	500/500	1000/250	5000/500	
TIME CONSTANT	1 SEC	4 SEC	4 SEC	
ZERO DIV L OR R	0	0	0	
SPEED-FPM	15	15	15	
FLUID LEVEL	N/A	FULL	FULL	
FORMATION FACTOR	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.
AM-241-BE	3 CURIE	13"	71-1	228
CS-137	125 MCI	13"	FI-VD-HP	B-030

PERFORATIONS:

REMARKS: 2" PVC FILLED WITH WATER PRIOR TO RUNNING NEUTRON AND DENSITY.
 PVC PULLED PRIOR TO CALIPER, HOLE BRIDGED OVER AT 21'
 WELL DRILLED BY: LAYNE
 DRILLER:

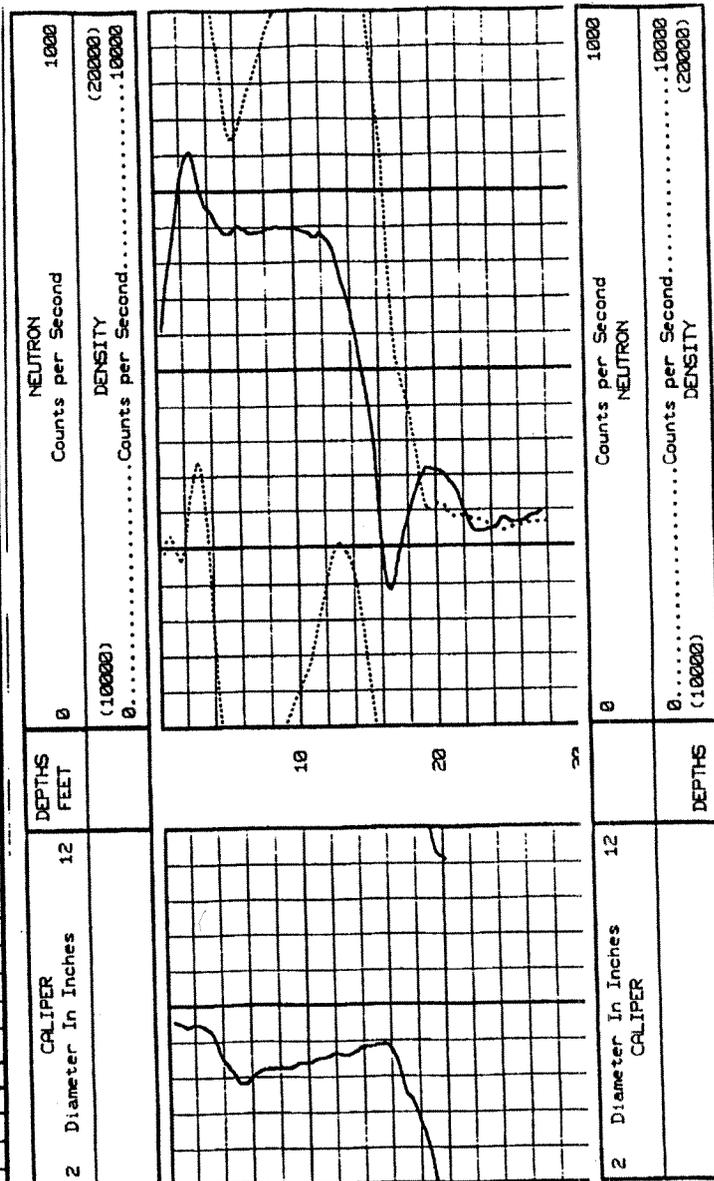
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WEL ENCO INC



NEUTRON / DENSITY / CALIPER LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL					
	WELL	PZ-012					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES			STATE CALIFORNIA		
JOB NO.	LOCATION:	BOEING - ROCKETDYNE END OF WOOLSEY CYN RD.				OTHER SERV: INDUCTION	
33675	SEC	TWP	RGE				
PERMANENT DATUM: GROUND LEVEL				ELEV: N/A		ELEVATION: KB. _____ DF. _____ GL. _____	
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM							
DRILLING MEASURED FROM GROUND LEVEL							
DATE	11-28-2000		11-28-2000		11-28-2000		
TYPE OF LOG	CALIPER		NEUTRON		DENSITY		
RUN NO.	ONE		ONE		ONE		
DEPTH - DRILLER	29'		29'		29'		
DEPTH - LOGGER	21'		29'		29'		
BOTTOM LOGGED INT	20'		27.5'		27.5'		
TOP LOGGED INT	0'		0'		0'		
TYPE FLUID IN HOLE	AIR/WATER		WATER		WATER		
FLUID LEVEL	N/A		FULL		FULL		
MAX TEMP DEG F	N/A		N/A		N/A		
OPERATING RIG TIME	N/A		N/A		N/A		
EQUIP.	LOCATION	L-15	BFL	L-15	BFL	L-15	BFL
OPERATOR		DAN IHDE					
WITNESSED BY		TODD HALL					
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	20'	2"	PVC	SURF	29'
	5"	20'	29'				





INDUCTION LOG

FILING NO. COMPANY ANEC EARTH & ENVIRONMENTAL
 WELL P2-012
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE OTHER SERV:
END OF WOOLSEY CYN RD. NEUTRON
CHARNOCK DENSITY
CALIPER

JOB NO. 33675
 SEC TWP RGE

PERMANENT DATUM: GROUND LEVEL ELEV: N/A ELEVATION:

 LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM DF.
 DRILLING MEASURED FROM GROUND LEVEL GL.

DATE	<u>11-28-2000</u>	
TYPE OF LOG	<u>INDUCTION</u>	
RUN NO.	<u>ONE</u>	
DEPTH - DRILLER	<u>29'</u>	
DEPTH - LOGGER	<u>29'</u>	
BOTTOM LOGGED INT	<u>27'</u>	
TOP LOGGED INT	<u>0'</u>	
TYPE FLUID IN HOLE	<u>AIR/WATER</u>	
FLUID LEVEL	<u>N/A</u>	
MAX TEMP DEG F	<u>N/A</u>	
OPERATING RIG TIME	<u>N/A</u>	
EQUIP.	<u>L-15</u>	<u>BFL</u>
OPERATOR	<u>DAN IHDE</u>	
WITNESSED BY	<u>TODD HALL</u>	

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	20'	2"	PVC	SURF	29'
	5"	20'	29'				

EQUIPMENT DATA

LOG TYPE	<u>INDUCTION</u>		<u>RESISTIVITY</u>
RUN NO.	<u>ONE</u>		<u>ONE</u>
TOOL MODEL NO.	<u>GEONICS</u>		<u>GEONICS</u>
TOOL SERIAL NO.	<u>2</u>		<u>2</u>
DIAMETER	<u>1.25"</u>		<u>1.25"</u>
DETECTOR TYPE	<u>COIL</u>		<u>COIL</u>
DETECTOR LENGTH	<u>25"</u>		<u>25"</u>
UNITS/DIV.	<u>5 M-MHOS</u>		<u>5 OHM-M</u>
SENSITIVITY	<u>1000</u>		<u>1000</u>
ZERO DIV L OR R	<u>0L</u>		<u>0L</u>
SPEED-FPM	<u>15</u>		<u>15</u>
FLUID LEVEL	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
FORMATION FACTOR	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
PUMP RATE-GPM	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
PUMP RATE-GPM	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
PUMP RATE-GPM	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.

PERFORATIONS:

REMARKS:

WELL DRILLED BY: LAYNE
 DRILLER:
 NOTICE:
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WELLENCO, INC.



INDUCTION LOG

FILING NO. COMPANY **AMEC EARTH & ENVIRONMENTAL**
 WELL **PZ-012**
 FIELD **SANTA SUSANA FIELD LAB**
 COUNTY **LOS ANGELES** STATE **CALIFORNIA**

LOCATION: **BOEING - ROCKETDYNE** OTHER SERV:
END OF WOOLSEY CYN RD. **NEUTRON**
CHARNOCK **DENSITY**
CALIPER

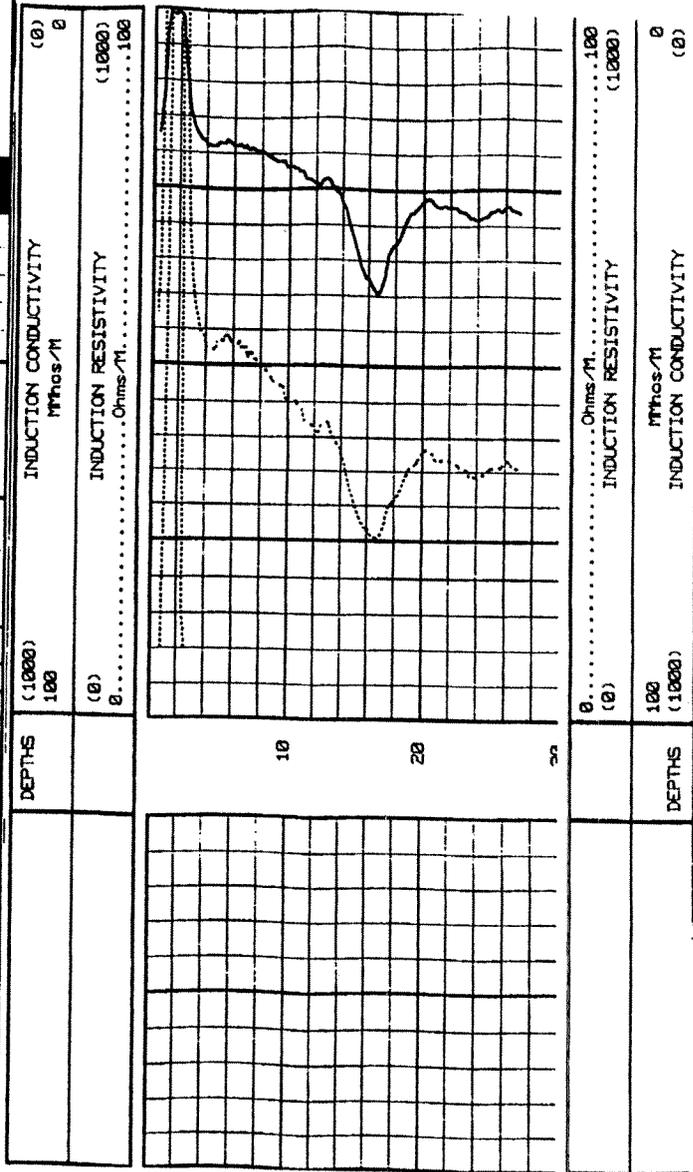
JOB NO. **33675** SEC _____ TWP _____ RGE _____

PERMANENT DATUM: **GROUND LEVEL** ELEV: **N/A** ELEVATION:
 KB. _____
 DF. _____
 GL. _____

LOG MEASURED FROM **G.L.** **0** FT ABOVE PERM DATUM
 DRILLING MEASURED FROM **GROUND LEVEL**

DATE	11-28-2000		
TYPE OF LOG	INDUCTION		
RUN NO.	ONE		
DEPTH - DRILLER	29'		
DEPTH - LOGGER	29'		
BOTTOM LOGGED INT	27'		
TOP LOGGED INT	0'		
TYPE FLUID IN HOLE	AIR/WATER		
FLUID LEVEL	N/A		
MAX TEMP DEG F	N/A		
OPERATING RIG TIME	N/A		
EQUIP.	LOCATION	L-15	BFL
OPERATOR	DAN IHDE		
WITNESSED BY	TODD HALL		

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	6"	SURF	20'	2"	PVC	SURF	29'
	5"	20'	29'				





NEUTRON / DENSITY / CALIPER LOG

FILING NO. COMPANY **AMEC EARTH & ENVIRONMENTAL**
 WELL **PZ-013**
 FIELD **SANTA SUSANA FIELD LAB**
 COUNTY **LOS ANGELES STATE CALIFORNIA**

LOCATION: **BOEING - ROCKETDYNE**
END OF WOOLSEY CYN RD.
 OTHER SERV:
INDUCTION

JOB NO. **33675**
 SEC _____ TWP _____ RGE _____

PERMANENT DATUM: **GROUND LEVEL** ELEV: **N/A**
 ELEVATION:
 KB. _____
 LOG MEASURED FROM **G.L. 0 FT ABOVE PERM DATUM**
 DF. _____
 DRILLING MEASURED FROM **GROUND LEVEL**
 GL. _____

DATE	11-28-2000	11-28-2000	11-28-2000
TYPE OF LOG	CALIPER	NEUTRON	DENSITY
RUN NO.	ONE	ONE	ONE
DEPTH - DRILLER	50'	50'	50'
DEPTH - LOGGER	50'	50'	50'
BOTTOM LOGGED INT	49'	48.5'	48.5'
TOP LOGGED INT	0'	0'	0'
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER
FLUID LEVEL	N/A	FULL	FULL
MAX TEMP DEG F	N/A	N/A	N/A
OPERATING RIG TIME	N/A	N/A	N/A
EQUIP.	L-15	BFL	L-15 BFL L-15 BFL
OPERATOR	DAN IHDE		
WITNESSED BY	TODD HALL		

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	50'	2"	PVC	SURF	50'

EQUIPMENT DATA

LOG TYPE	CALIPER	NEUTRON	DENSITY
RUN NO.	ONE	ONE	ONE
TOOL MODEL NO.	MLS	COSMOS	ORE
TOOL SERIAL NO.	T-118	T-2	T-37
DIAMETER	1 3/8"	1 11/16"	1 11/16"
DETECTOR TYPE	3 ARM	HE3	GEIGER
DETECTOR LENGTH	N/A	4"	2"
UNITS/DIV.	1 INCH	50 CPS	500 CPS
SENSITIVITY	500/500	1000/250	5000/500
TIME CONSTANT	1 SEC	4 SEC	4 SEC
ZERO DIV L OR R	0	0	0
SPEED-FPM	15	15	15
FLUID LEVEL	N/A	FULL	FULL
FORMATION FACTOR	N/A		
PUMP RATE-GPM	N/A		
PUMP RATE-GPM	N/A		
PUMP RATE-GPM	N/A		

SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.
AN-241-BE	3 CURIE	13"	71-1	228
CS-137	125 MCI	13"	FI-VD-HP	B-030

PERFORATIONS:

REMARKS: **2" PVC FILLED WITH WATER PRIOR TO RUNNING NEUTRON AND DENSITY.**

WELL DRILLED BY: **LAYNE**
 DRILLER:

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WELENCO, INC.



NEUTRON / DENSITY / CALIPER LOG

FILING NO. _____ COMPANY **AMEC EARTH & ENVIRONMENTAL**
 WELL **PZ-013**
 FIELD **SANTA SUSANA FIELD LAB**
 COUNTY **LOS ANGELES** STATE **CALIFORNIA**

LOCATION: **BOEING - ROCKETDYNE** OTHER SERV:
END OF WOOLSEY CYN RD. **INDUCTION**

JOB NO. **33675** SEC _____ TWP _____ RGE _____

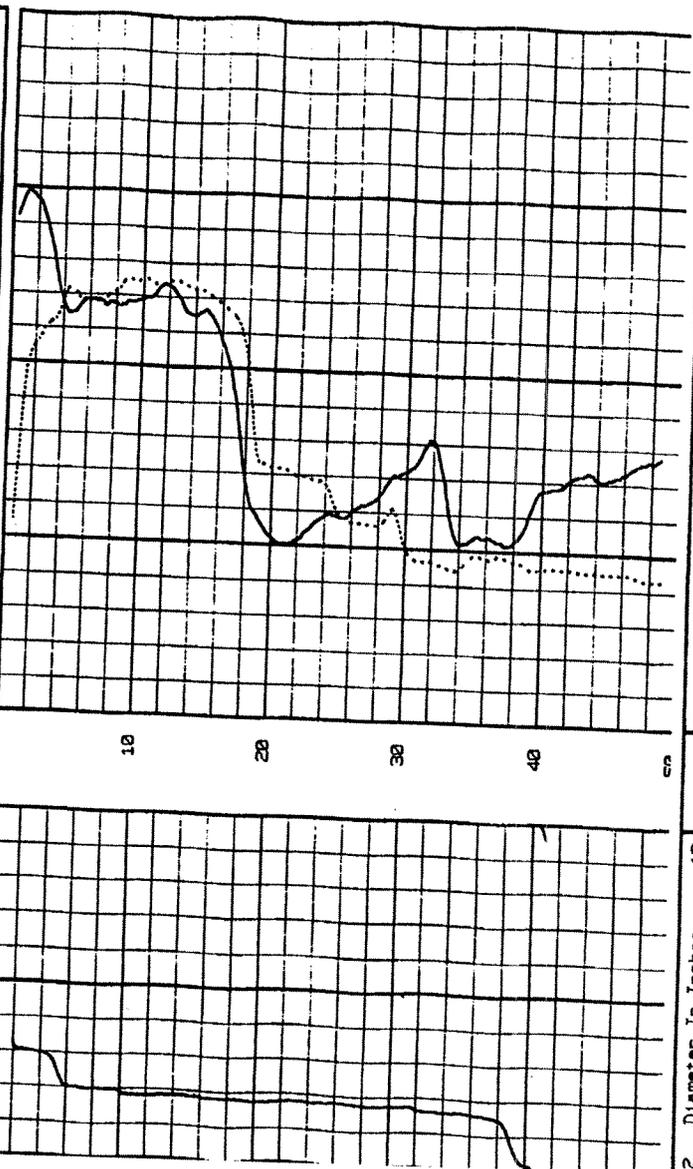
PERMANENT DATUM: **GROUND LEVEL** ELEV: **N/A**

LOG MEASURED FROM **G.L. 0 FT ABOVE PERM DATUM**
 DRILLING MEASURED FROM **GROUND LEVEL**

DATE	11-28-2000	11-28-2000	11-28-2000
TYPE OF LOG	CALIPER	NEUTRON	DENSITY
RUN NO.	ONE	ONE	ONE
DEPTH - DRILLER	50'	50'	50'
DEPTH - LOGGER	50'	50'	50'
BOTTOM LOGGED INT	49'	48.5'	48.5'
TOP LOGGED INT	0'	0'	0'
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER
FLUID LEVEL	N/A	FULL	FULL
MAX TEMP DEG F	N/A	N/A	N/A
OPERATING RIG TIME	N/A	N/A	N/A
EQUIP. LOCATION	L-15 BFL	L-15 BFL	L-15 BFL
OPERATOR	DAN IHDE		
WITNESSED BY	TODD HALL		

RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO	
ONE	5"	SURF	50'	2"	PVC	SURF	50'	

NEUTRON Counts per Second 10000
 DENSITY Counts per Second (20000) 10000
 DEPTHS FEET 0
 CALIPER Diameter In Inches 12
 2 Diameter In Inches CALIPER



Counts per Second NEUTRON 10000
 Counts per Second DENSITY (20000) 10000
 DEPTHS (10000) 0
 12 Diameter In Inches CALIPER
 DEPTHS



INDUCTION LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL					
	WELL	PZ-013					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE	CALIFORNIA			
	LOCATION:	BOEING - ROCKETDYNE END OF WOOLSEY CYN RD. CHARNOCK		OTHER SERV: NEUTRON DENSITY CALIPER			
JOB NO.	SEC	TWP	RGE				
	PERMANENT DATUM:	GROUND LEVEL	ELEV:	N/A			
	LOG MEASURED FROM	G.L.	0 FT ABOVE PERM DATUM				
	DRILLING MEASURED FROM	GROUND LEVEL					
DATE	11-28-2000						
TYPE OF LOG	INDUCTION						
RUN NO.	ONE						
DEPTH - DRILLER	50'						
DEPTH - LOGGER	50'						
BOTTOM LOGGED INT	48'						
TOP LOGGED INT	0'						
TYPE FLUID IN HOLE	AIR/WATER						
FLUID LEVEL	N/A						
MAX TEMP DEG F	N/A						
OPERATING RIG TIME	N/A						
EQUIP.	LOCATION	L-15	BFL				
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	50'	2"	PVC	SURF	50'

EQUIPMENT DATA

LOG TYPE	INDUCTION		RESISTIVITY	
RUN NO.	ONE		ONE	
TOOL MODEL NO.	GEONICS		GEONICS	
TOOL SERIAL NO.	2		2	
DIAMETER	1.25"		1.25"	
DETECTOR TYPE	COIL		COIL	
DETECTOR LENGTH	25"		25"	
UNITS/DIV.	5 M-MHOS		5 OHM-M	
SENSITIVITY	1000		1000	
ZERO DIV L OR R	0L		0L	
SPEED-FPM	15		15	
FLUID LEVEL	N/A	N/A	N/A	
FORMATION FACTOR	N/A	N/A	N/A	
PUMP RATE-GPM	N/A	N/A	N/A	
PUMP RATE-GPM	N/A	N/A	N/A	
PUMP RATE-GPM	N/A	N/A	N/A	
SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.
PERFORATIONS:				
REMARKS:				
WELL DRILLED BY: LAYNE				
DRILLER:				
NOTICE:				
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.				
WELENCO, INC.				



INDUCTION LOG

FILING NO. COMPANY AMEC EARTH & ENVIRONMENTAL
 WELL PZ-013
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE
 END OF WOOLSEY CYN RD.
 CHARNOCK
 OTHER SERV:
 NEUTRON
 DENSITY
 CALIPER

JOB NO. 33675
 SEC TWP RGE

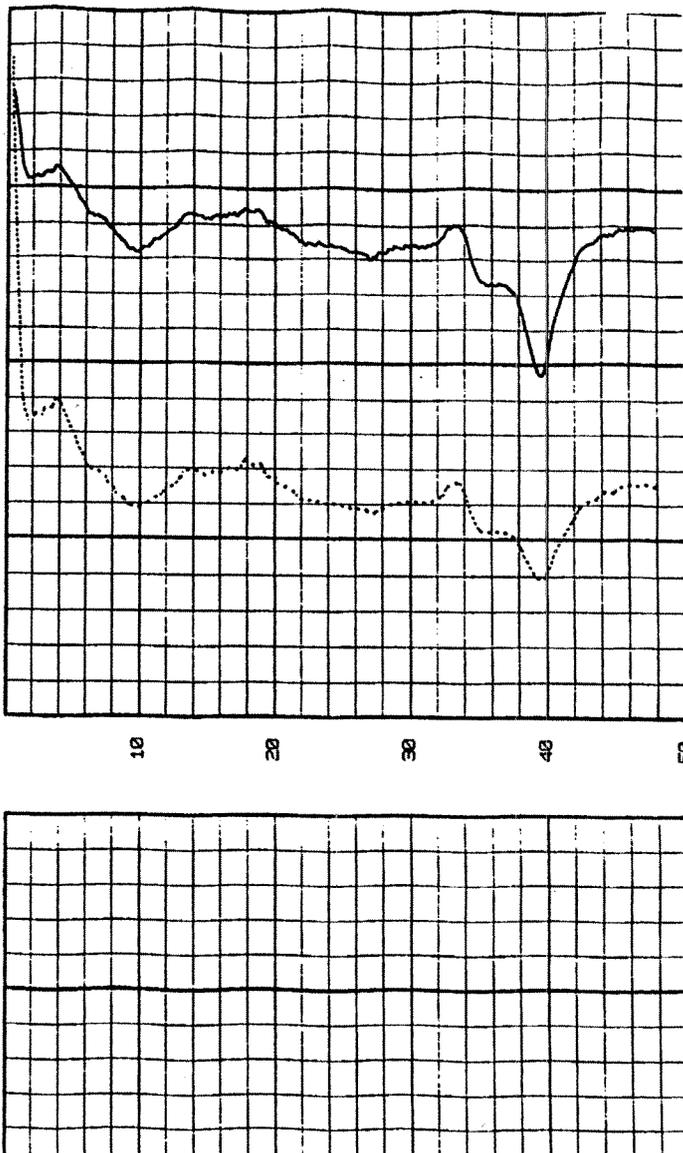
PERMANENT DATUM: GROUND LEVEL ELEV: N/A

LOG MEASURED FROM Q.L. 0 FT ABOVE PERM DATUM
 DRILLING MEASURED FROM GROUND LEVEL

DATE 11-28-2000
 TYPE OF LOG INDUCTION
 RUN NO. ONE
 DEPTH - DRILLER 50'
 DEPTH - LOGGER 50'
 BOTTOM LOGGED INT 49'
 TOP LOGGED INT 0'
 TYPE FLUID IN HOLE AIR/WATER
 FLUID LEVEL N/A
 MAX TEMP DEG F N/A
 OPERATING RIG TIME N/A
 EQUIP. LOCATION L-15 BFL
 OPERATOR DAN IHDE
 WITNESSED BY TODD HALL

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	50'	2"	PVC	SURF	50'

INDUCTION CONDUCTIVITY (1000) MMhos/M (0) 100
 INDUCTION RESISTIVITY (1000) Ohms/M (0) 100
 DEPTHS (1000) 100 (0) 0



INDUCTION CONDUCTIVITY (1000) MMhos/M (0) 100
 INDUCTION RESISTIVITY (1000) Ohms/M (0) 100
 DEPTHS (1000) 100 (0) 0



NEUTRON / DENSITY / CALIPER LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL					
	WELL	PZ-014					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE CALIFORNIA				
	LOCATION:	BOEING - ROCKETDYNE END OF WOOLSEY CYN RD.		OTHER SERV: INDUCTION			
JOB NO. 33675	SEC	TWP	RGE				
	PERMANENT DATUM:	GROUND LEVEL	ELEV: N/A				
	LOG MEASURED FROM	G.L. 0 FT ABOVE PERM DATUM					
	DRILLING MEASURED FROM	GROUND LEVEL					
DATE	11-28-2000	11-28-2000	11-28-2000				
TYPE OF LOG	CALIPER	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	40'	40'	40'				
DEPTH - LOGGER	40'	40'	40'				
BOTTOM LOGGED INT	39'	38.5'	38.5'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER				
FLUID LEVEL	N/A	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-15	BFL	L-15	BFL		
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	40'	2"	PVC	SURF	40'

EQUIPMENT DATA

LOG TYPE	CALIPER	NEUTRON	DENSITY	
RUN NO.	ONE	ONE	ONE	
TOOL MODEL NO.	MLS	COSMOS	ORE	
TOOL SERIAL NO.	T-118	T-2	T-37	
DIAMETER	1 3/8"	1 11/16"	1 11/16"	
DETECTOR TYPE	3 ARM	HE3	GEIGER	
DETECTOR LENGTH	N/A	4"	2"	
UNITS/DIV.	1 INCH	50 CPS	500 CPS	
SENSITIVITY	500/500	1000/250	5000/500	
TIME CONSTANT	1 SEC	4 SEC	4 SEC	
ZERO DIV L OR R	0	0	0	
SPEED-FPM	15	15	15	
FLUID LEVEL	N/A	FULL	FULL	
FORMATION FACTOR	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
PUMP RATE-GPM	N/A			
SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.
AM-241-BE	3 CURIE	13"	71-1	228
CS-137	125 MCI	13"	FI-VD-HP	B-030
PERFORATIONS:				
REMARKS: 2" PVC FILLED WITH WATER PRIOR TO RUNNING NEUTRON AND DENSITY.				
WELL DRILLED BY: LAYNE				
DRILLER:				
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WELLENCO, INC.				



NEUTRON / DENSITY / CALIPER LOG

FILING NO. COMPANY AMEC EARTH & ENVIRONMENTAL
 WELL PZ-014
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE OTHER SERV:
END OF WOOLSEY CYN RD. INDUCTION

JOB NO. 33675 SEC _____ TWP _____ RGE _____

PERMANENT DATUM: GROUND LEVEL ELEV: N/A ELEVATION:
 KB: _____
 LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM DF: _____
 DRILLING MEASURED FROM GROUND LEVEL GL: _____

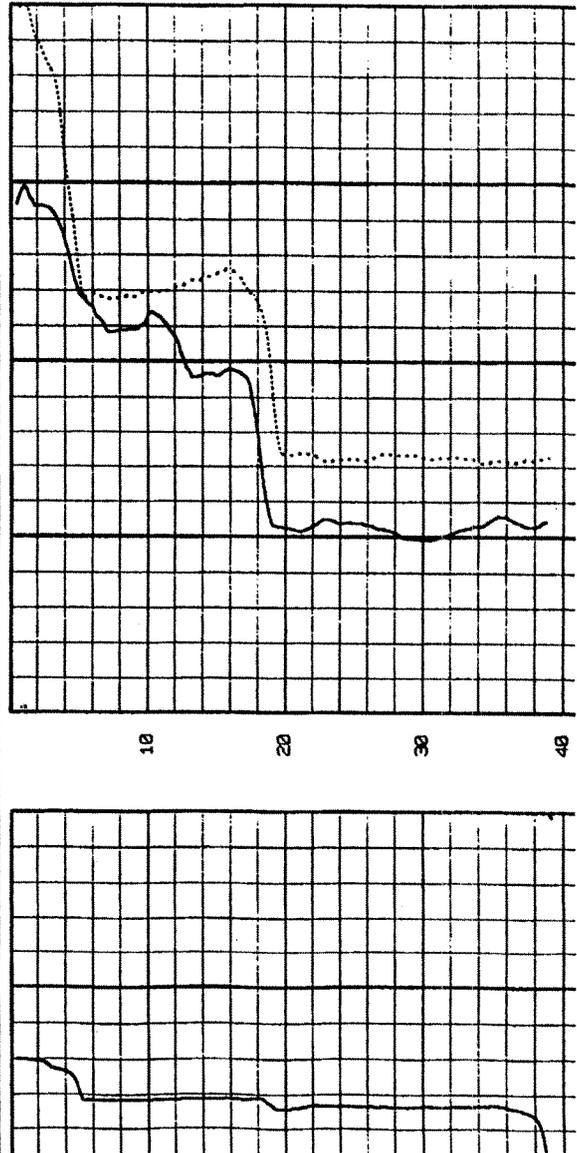
DATE	11-28-2000	11-28-2000	11-28-2000				
TYPE OF LOG	CALIPER	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	40'	40'	40'				
DEPTH - LOGGER	40'	40'	40'				
BOTTOM LOGGED INT	39'	38.5'	38.5'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER				
FLUID LEVEL	N/A	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP. LOCATION	L-15 BFL	L-15 BFL	L-15 BFL				
OPERATOR	DAN INDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD		CASING RECORD				
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	40'	2"	PVC	SURF	40'

NEUTRON Counts per Second (20000) 10000 0

DENSITY Counts per Second (10000) 0

DEPTHS FEET 0 10 20 30 40

CALIPER Diameter In Inches 12 0



Counts per Second NEUTRON 10000 0

Counts per Second DENSITY (10000) 0

DEPTHS 0

Diameter In Inches CALIPER 12 0



INDUCTION LOG

FILING NO. COMPANY AMEC EARTH & ENVIRONMENTAL
 WELL PZ-014
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE
END OF WOOLSEY CYN RD.
CHARNOCK

OTHER SERV:
 NEUTRON
 DENSITY
 CALIPER

JOB NO.
 33675

SEC _____ TWP _____ RGE _____

PERMANENT DATUM: GROUND LEVEL ELEV: N/A

ELEVATION:
 KB. _____
 DF. _____
 GL. _____

LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM
 DRILLING MEASURED FROM GROUND LEVEL

DATE	11-28-2000
TYPE OF LOG	INDUCTION
RUN NO.	ONE
DEPTH - DRILLER	40'
DEPTH - LOGGER	40'
BOTTOM LOGGED INT	38'
TOP LOGGED INT	0'
TYPE FLUID IN HOLE	AIR/WATER
FLUID LEVEL	N/A
MAX TEMP DEG F	N/A
OPERATING RIG TIME	N/A
EQUIP.	L-15
LOCATION	BFL
OPERATOR	DAN IHDE
WITNESSED BY	TODD HALL

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	40'	2"	PVC	SURF	40'

EQUIPMENT DATA

LOG TYPE	INDUCTION		RESISTIVITY
RUN NO.	ONE		ONE
TOOL MODEL NO.	GEONICS		GEONICS
TOOL SERIAL NO.	2		2
DIAMETER	1.25"		1.25"
DETECTOR TYPE	COIL		COIL
DETECTOR LENGTH	25"		25"
UNITS/DIV.	5 M-MHOS		5 OHM-M
SENSITIVITY	1000		1000
ZERO DIV L OR R	0L		0L
SPEED-FPM	15		15
FLUID LEVEL	N/A	N/A	N/A
FORMATION FACTOR	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A

SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.

PERFORATIONS:

REMARKS:

WELL DRILLED BY: LAYNE

DRILLER:
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WEL ENCO INC



INDUCTION LOG

FILING NO. COMPANY **AMEC EARTH & ENVIRONMENTAL**
 WELL **PZ-014**
 FIELD **SANTA SUSANA FIELD LAB**
 COUNTY **LOS ANGELES** STATE **CALIFORNIA**

LOCATION: **BOEING - ROCKETDYNE**
END OF WOOLSEY CYN RD.
CHARNOCK

OTHER SERV:
 NEUTRON
 DENSITY
 CALIPER

JOB NO.
 33675

SEC _____ TWP _____ RGE _____

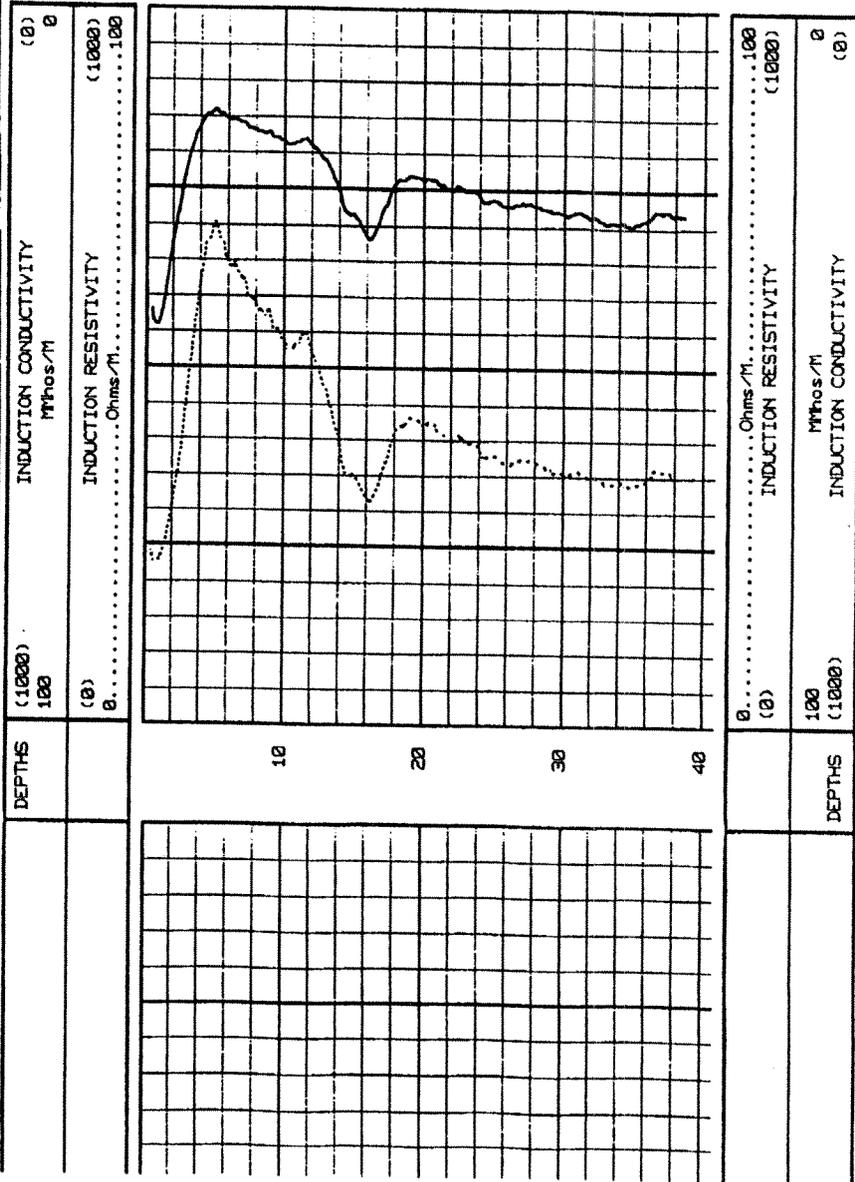
PERMANENT DATUM: GROUND LEVEL ELEV: N/A

LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM
 DRILLING MEASURED FROM GROUND LEVEL

ELEVATION:
 KB. _____
 DF. _____
 GL. _____

DATE	11-28-2000		
TYPE OF LOG	INDUCTION		
RUN NO.	ONE		
DEPTH - DRILLER	40'		
DEPTH - LOGGER	40'		
BOTTOM LOGGED INT	30'		
TOP LOGGED INT	0'		
TYPE FLUID IN HOLE	AIR/WATER		
FLUID LEVEL	N/A		
MAX TEMP DEG F	N/A		
OPERATING RIG TIME	N/A		
EQUIP.	LOCATION	L-15	BFL
OPERATOR	DAN IHDE		
WITNESSED BY	TODD HALL		

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	40'	2"	PVC	SURF	40'





NEUTRON / DENSITY / CALIPER LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL		
	WELL	PZ-015		
	FIELD	SANTA SUSANA FIELD LAB		
	COUNTY	LOS ANGELES	STATE CALIFORNIA	
	LOCATION:	BOEING - ROCKETDYNE END OF WOOLSEY CYN RD.	OTHER SERV: INDUCTION	
JOB NO. 33675	SEC	TWP	RGE	
PERMANENT DATUM: GROUND LEVEL		ELEV: N/A	ELEVATION: KB. _____ DF. _____ GL. _____	
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM				
DRILLING MEASURED FROM GROUND LEVEL				
DATE	11-28-2000	11-28-2000	11-28-2000	
TYPE OF LOG	CALIPER	NEUTRON	DENSITY	
RUN NO.	ONE	ONE	ONE	
DEPTH - DRILLER	48'	48'	48'	
DEPTH - LOGGER	17'	48'	48'	
BOTTOM LOGGED INT	16'	46.5'	46.5'	
TOP LOGGED INT	0'	0'	0'	
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER	
FLUID LEVEL	N/A	FULL	FULL	
MAX TEMP DEG F	N/A	N/A	N/A	
OPERATING RIG TIME	N/A	N/A	N/A	
EQUIP.	LOCATION	L-15	BFL	
		L-15	BFL	
		L-15	BFL	
OPERATOR	DAN IHDE			
WITNESSED BY	TODD HALL			
RUN NO.	BORE HOLE RECORD		CASING RECORD	
	BIT	FROM	TO	SIZE
ONE	5"	SURF	48'	2"

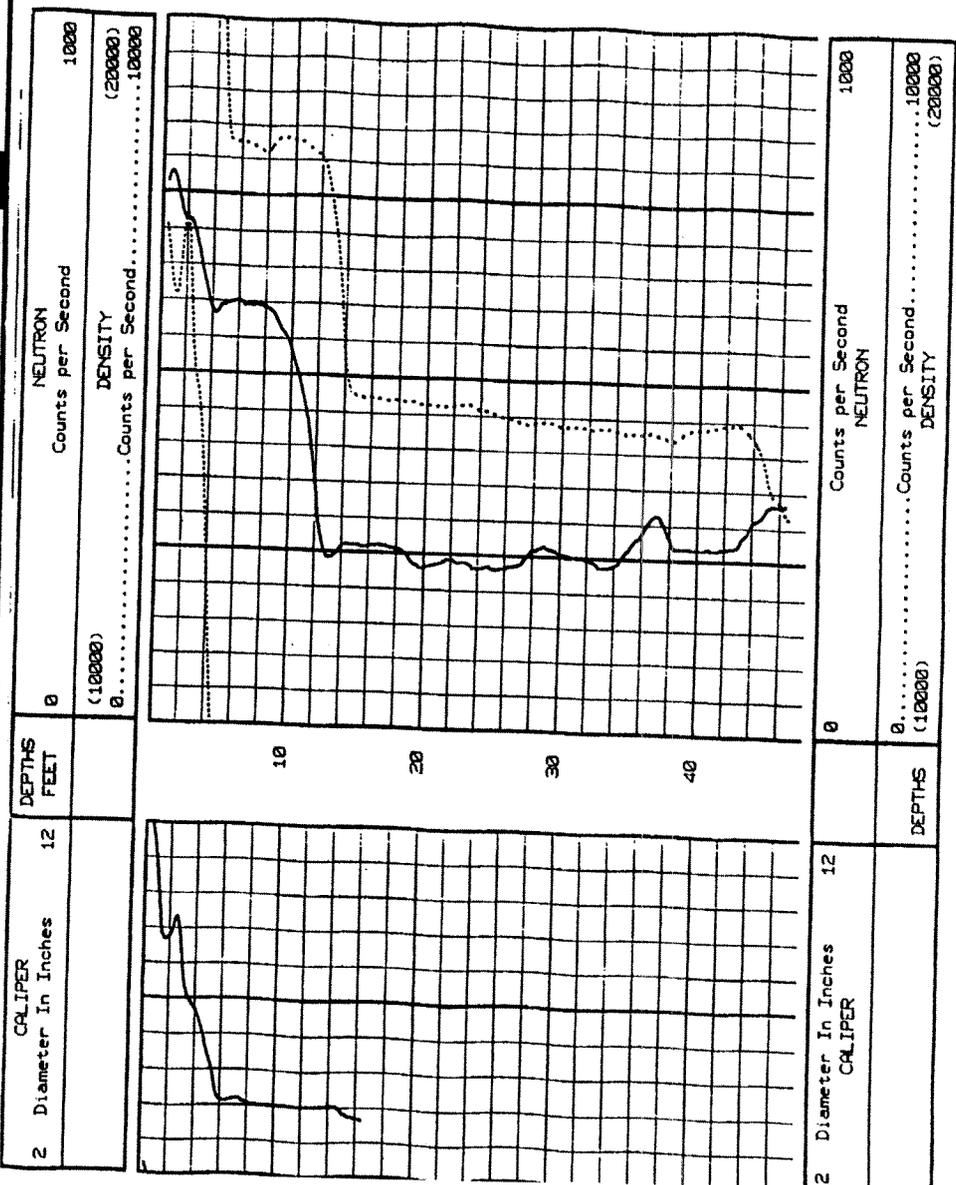
EQUIPMENT DATA

LOG TYPE	CALIPER	NEUTRON	DENSITY
RUN NO.	ONE	ONE	ONE
TOOL MODEL NO.	MLS	COSMOS	ORE
TOOL SERIAL NO.	T-118	T-2	T-37
DIAMETER	1 3/8"	1 11/16"	1 11/16"
DETECTOR TYPE	3 ARM	HE3	GEIGER
DETECTOR LENGTH	N/A	4"	2"
UNITS/DIV.	1 INCH	50 CPS	500 CPS
SENSITIVITY	500/500	1000/250	5000/500
TIME CONSTANT	1 SEC	4 SEC	4 SEC
ZERO DIV L OR R	0	0	0
SPEED-FPM	15	15	15
FLUID LEVEL	N/A	FULL	FULL
FORMATION FACTOR	N/A		
PUMP RATE-GPM	N/A		
PUMP RATE-GPM	N/A		
PUMP RATE-GPM	N/A		
SOURCE TYPE	STRENGTH	SPACING	MODEL NO
AN-241-BE	3 CURIE	13"	71-1
CS-137	125 MCI	13"	FI-VD-HP
			B-030
PERFORATIONS:			
REMARKS: 2" PVC FILLED WITH WATER PRIOR TO RUNNING NEUTRON AND DENSITY. PVC PULLED PRIOR TO CALIPER, HOLE BRIDGED OVER AT 17' WELL DRILLED BY: LAYNE DRILLER: NOTICE: All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.			
WELENCO, INC.			



NEUTRON / DENSITY / CALIPER LOG

FILING NO.		COMPANY AMEC EARTH & ENVIRONMENTAL					
		WELL PZ-015					
		FIELD SANTA SUSANA FIELD LAB					
		COUNTY LOS ANGELES STATE CALIFORNIA					
JOB NO. 33675		LOCATION: BOEING - ROCKETDYNE END OF WOOLSEY CYN RD.					
		OTHER SERV: INDUCTION					
		SEC _____ TWP _____ RGE _____					
PERMANENT DATUM: GROUND LEVEL		ELEV: N/A					
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM		ELEVATION: KB. _____ DF. _____ GL. _____					
DRILLING MEASURED FROM GROUND LEVEL							
DATE	11-28-2000	11-28-2000	11-28-2000				
TYPE OF LOG	CALIPER	NEUTRON	DENSITY				
RUN NO.	ONE	ONE	ONE				
DEPTH - DRILLER	48'	48'	48'				
DEPTH - LOGGER	17'	48'	48'				
BOTTOM LOGGED INT	16'	46.5'	46.5'				
TOP LOGGED INT	0'	0'	0'				
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER				
FLUID LEVEL	N/A	FULL	FULL				
MAX TEMP DEG F	N/A	N/A	N/A				
OPERATING RIG TIME	N/A	N/A	N/A				
EQUIP.	LOCATION	L-15	BFL				
OPERATOR	DAN IHDE	L-15	BFL				
WITNESSED BY	TODD HALL	L-15	BFL				
RUN NO.	BORE HOLE RECORD		CASING RECORD				
ONE	BIT	FROM	TO	SIZE	TYPE	FROM	TO
	5"	SURF	48'	2"	PVC	SURF	48'





INDUCTION LOG

FILING NO. COMPANY AMEC EARTH & ENVIRONMENTAL
 WELL PZ-015
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE OTHER SERV:
END OF WOOLSEY CYN RD. NEUTRON
CHARNOCK DENSITY
 CALIPER

JOB NO. 33675 SEC _____ TWP _____ RGE _____

PERMANENT DATUM: GROUND LEVEL ELEV: N/A
 LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM
 DRILLING MEASURED FROM GROUND LEVEL
 ELEVATION:
 KB. _____
 DF. _____
 GL. _____

DATE	<u>11-28-2000</u>
TYPE OF LOG	<u>INDUCTION</u>
RUN NO.	<u>ONE</u>
DEPTH - DRILLER	<u>48'</u>
DEPTH - LOGGER	<u>48'</u>
BOTTOM LOGGED INT	<u>46'</u>
TOP LOGGED INT	<u>0'</u>
TYPE FLUID IN HOLE	<u>AIR/WATER</u>
FLUID LEVEL	<u>N/A</u>
MAX TEMP DEG F	<u>N/A</u>
OPERATING RIG TIME	<u>N/A</u>
EQUIP.	<u>L-15</u>
LOCATION	<u>BFL</u>
OPERATOR	<u>DAN IHDE</u>
WITNESSED BY	<u>TODD HALL</u>

RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO	
<u>ONE</u>	<u>5"</u>	<u>SURF</u>	<u>48'</u>	<u>2"</u>	<u>PVC</u>	<u>SURF</u>	<u>48'</u>	

EQUIPMENT DATA

LOG TYPE	INDUCTION	RESISTIVITY
RUN NO.	<u>ONE</u>	<u>ONE</u>
TOOL MODEL NO.	<u>GEONICS</u>	<u>GEONICS</u>
TOOL SERIAL NO.	<u>2</u>	<u>2</u>
DIAMETER	<u>1.25"</u>	<u>1.25"</u>
DETECTOR TYPE	<u>COIL</u>	<u>COIL</u>
DETECTOR LENGTH	<u>25"</u>	<u>25"</u>
UNITS/DIV.	<u>5 M-MHOS</u>	<u>5 OHM-M</u>
SENSITIVITY	<u>1000</u>	<u>1000</u>
ZERO DIV L OR R	<u>0L</u>	<u>0L</u>
SPEED-FPM	<u>15</u>	<u>15</u>
FLUID LEVEL	<u>N/A</u>	<u>N/A</u>
FORMATION FACTOR	<u>N/A</u>	<u>N/A</u>
PUMP RATE-GPM	<u>N/A</u>	<u>N/A</u>
PUMP RATE-GPM	<u>N/A</u>	<u>N/A</u>
PUMP RATE-GPM	<u>N/A</u>	<u>N/A</u>

SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.

PERFORATIONS:

REMARKS:

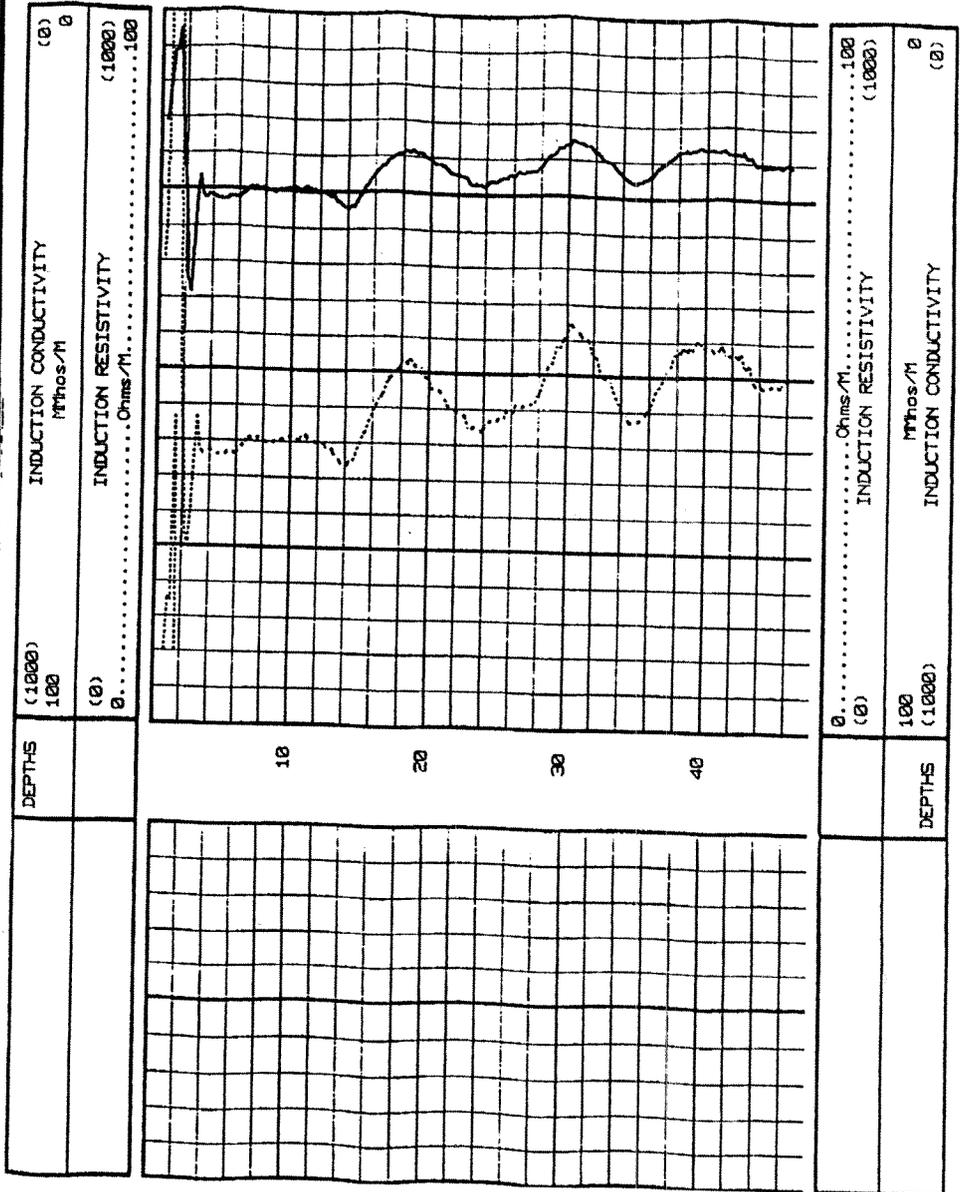
WELL DRILLED BY: LAYNE
 DRILLER:
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WEL ENCO INC



INDUCTION LOG

FILING NO.	COMPANY AMEC EARTH & ENVIRONMENTAL						
	WELL PZ-015						
	FIELD SANTA SUSANA FIELD LAB						
	COUNTY LOS ANGELES STATE CALIFORNIA						
	LOCATION: BOEING - ROCKETDYNE END OF WOOLSEY CVN RD. CHARNOCK				OTHER SERV: NEUTRON DENSITY CALIPER		
JOB NO. 33675	SEC	TWP	RGE	ELEVATION: KB. _____ DF. _____ GL. _____			
PERMANENT DATUM: GROUND LEVEL				ELEV: N/A			
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM							
DRILLING MEASURED FROM GROUND LEVEL							
DATE	11-28-2000						
TYPE OF LOG	INDUCTION						
RUN NO.	ONE						
DEPTH - DRILLER	48'						
DEPTH - LOGGER	48'						
BOTTOM LOGGED INT	46'						
TOP LOGGED INT	0'						
TYPE FLUID IN HOLE	AIR/WATER						
FLUID LEVEL	N/A						
MAX TEMP DEG F	N/A						
OPERATING RIG TIME	N/A						
EQUIP.	LOCATION	L-15 BFL					
OPERATOR	DAN IHDE						
WITNESSED BY	TODD HALL						
RUN NO.	BORE HOLE RECORD				CASING RECORD		
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	48'	2"	PVC	SURF	48'





NEUTRON / DENSITY / CALIPER LOG

FILING NO. COMPANY **AMEC EARTH & ENVIRONMENTAL**
 WELL **PZ-016**
 FIELD **SANTA SUSANA FIELD LAB**
 COUNTY **LOS ANGELES** STATE **CALIFORNIA**

LOCATION: **BOEING - ROCKETDYNE
 END OF WOOLSEY CYN RD.** OTHER SERV:
INDUCTION

JOB NO. **33675** SEC **TWP** RGE **RGE**

PERMANENT DATUM: **GROUND LEVEL** ELEV: **N/A** ELEVATION:
 KB. _____
 DF. _____
 GL. _____

LOG MEASURED FROM **G.L. 0 FT ABOVE PERM DATUM**
 DRILLING MEASURED FROM **GROUND LEVEL**

DATE	11-28-2000	11-28-2000	11-28-2000			
TYPE OF LOG	CALIPER	NEUTRON	DENSITY			
RUN NO.	ONE	ONE	ONE			
DEPTH - DRILLER	65'	65'	65'			
DEPTH - LOGGER	65'	65'	65'			
BOTTOM LOGGED INT	64'	63.5'	63.5'			
TOP LOGGED INT	0'	0'	0'			
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER			
FLUID LEVEL	N/A	FULL	FULL			
MAX TEMP DEG F	N/A	N/A	N/A			
OPERATING RIG TIME	N/A	N/A	N/A			
EQUIP.	LOCATION	L-15	BFL			
OPERATOR	DAN IHDE					
WITNESSED BY	TODD HALL					
RUN NO.	BORE HOLE RECORD		CASING RECORD			
	BIT	FROM TO	SIZE	TYPE	FROM	TO
ONE	S*	SURF 65'	2"	PVC	SURF	65'

EQUIPMENT DATA

LOG TYPE	CALIPER	NEUTRON	DENSITY
RUN NO.	ONE	ONE	ONE
TOOL MODEL NO.	MLS	COSMOS	ORE
TOOL SERIAL NO.	T-118	T-2	T-37
DIAMETER	1 3/8"	1 11/16"	1 11/16"
DETECTOR TYPE	3 ARM	HE3	GEIGER
DETECTOR LENGTH	N/A	4"	2"
UNITS/DIV.	1 INCH	50 CPS	500 CPS
SENSITIVITY	500/500	1000/250	5000/500
TIME CONSTANT	1 SEC	4 SEC	4 SEC
ZERO DIV L OR R	0	0	0
SPEED-FPM	15	15	15
FLUID LEVEL	N/A	FULL	FULL
FORMATION FACTOR	N/A		
PUMP RATE-GPM	N/A		
PUMP RATE-GPM	N/A		
PUMP RATE-GPM	N/A		
SOURCE TYPE	STRENGTH	SPACING	MODEL NO
AM-241-BE	3 CURIE	13"	71-1
CS-137	125 MCI	13"	FI-VD-HP
			SERIAL NO.
			228
			B-030

PERFORATIONS:

REMARKS: **2" PVC FILLED WITH WATER PRIOR TO RUNNING
 NEUTRON AND DENSITY.
 PVC PULLED PRIOR TO CALIPER,
 WELL DRILLED BY: LAYNE
 DRILLER:**

NOTICE:
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WELLENCO, INC.



NEUTRON / DENSITY / CALIPER LOG

FILING NO. COMPANY AMEC EARTH & ENVIRONMENTAL
 WELL PZ-016
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE
 END OF WOOLSEY CYN RD. OTHER SERV:
 INDUCTION

JOB NO.
 33675

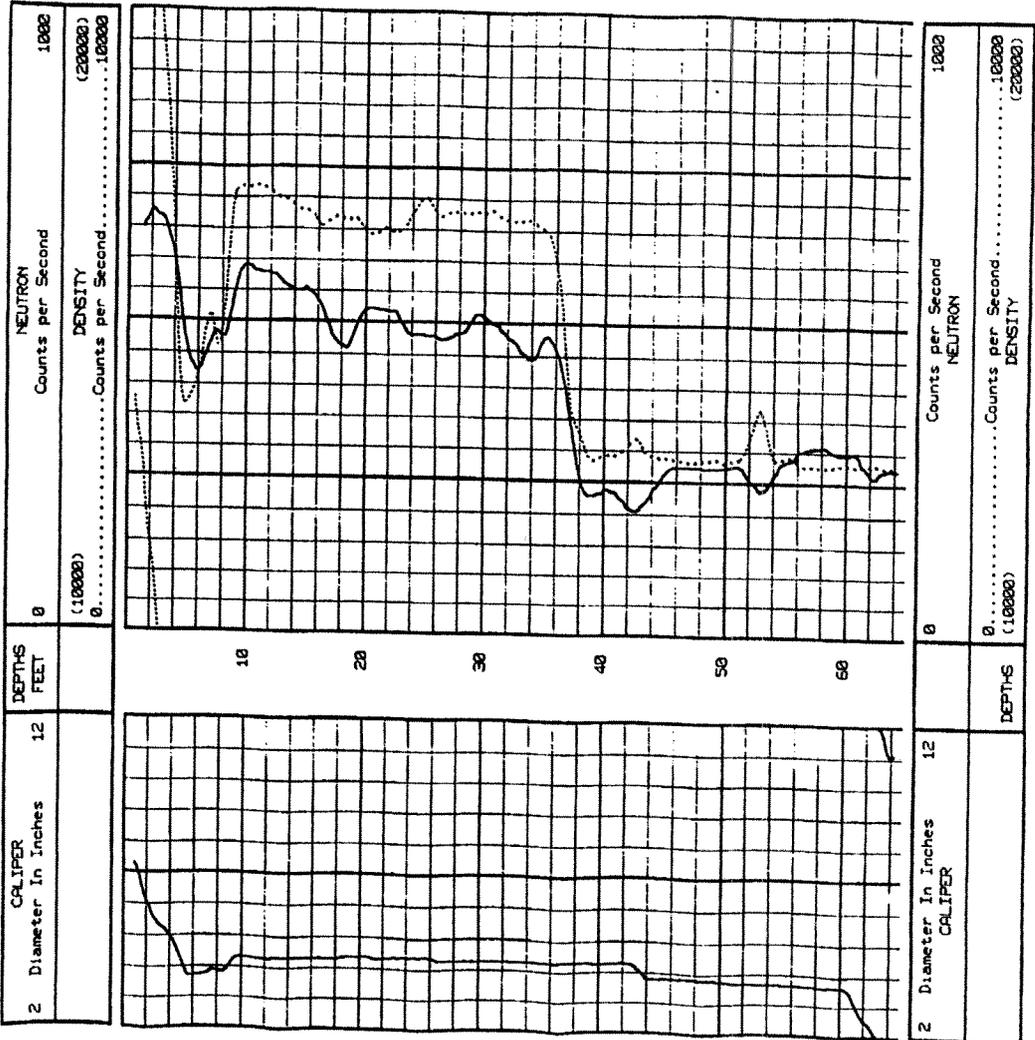
SEC TWP RGE

PERMANENT DATUM: GROUND LEVEL ELEV: N/A

LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM
 DRILLING MEASURED FROM GROUND LEVEL

DATE	11-29-2000	11-28-2000	11-28-2000
TYPE OF LOG	CALIPER	NEUTRON	DENSITY
RUN NO.	ONE	ONE	ONE
DEPTH - DRILLER	65'	65'	65'
DEPTH - LOGGER	65'	65'	65'
BOTTOM LOGGED INT	64'	63.5'	63.5'
TOP LOGGED INT	0'	0'	0'
TYPE FLUID IN HOLE	AIR/WATER	WATER	WATER
FLUID LEVEL	N/A	FULL	FULL
MAX TEMP DEG F	N/A	N/A	N/A
OPERATING RIG TIME	N/A	N/A	N/A
EQUIP.	L-15	BFL	L-15 BFL
OPERATOR	DAN IHDE		
WITNESSED BY	TODD HALL		

RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO	
ONE	5"	SURF	65'	2"	PVC	SURF	65'	





INDUCTION LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL					
	WELL	PZ-016					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES	STATE CALIFORNIA				
JOB NO.	LOCATION:	BOEING - ROCKETDYNE		OTHER SERV:			
		END OF WOOLSEY CYN RD.					
		CHARNOCK		NEUTRON			
				DENSITY			
				CALIPER			
33675	SEC	TWP	RGE				
PERMANENT DATUM: GROUND LEVEL		ELEV: N/A					
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM		ELEVATION:					
DRILLING MEASURED FROM GROUND LEVEL		KB. _____					
		DF. _____					
		GL. _____					
DATE	11-28-2000						
TYPE OF LOG	INDUCTION						
RUN NO.	ONE						
DEPTH - DRILLER	65'						
DEPTH - LOGGER	65'						
BOTTOM LOGGED INT	63'						
TOP LOGGED INT	0'						
TYPE FLUID IN HOLE	AIR/WATER						
FLUID LEVEL	N/A						
MAX TEMP DEG F	N/A						
OPERATING RIG TIME	N/A						
EQUIP.	LOCATION	L-15	BFL				
OPERATOR		DAN IHDE					
WITNESSED BY		TODD HALL					
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	65'	2"	PVC	SURF	65'

EQUIPMENT DATA

LOG TYPE	INDUCTION		RESISTIVITY
RUN NO.	ONE		ONE
TOOL MODEL NO.	GEONICS		GEONICS
TOOL SERIAL NO.	2		2
DIAMETER	1.25"		1.25"
DETECTOR TYPE	COIL		COIL
DETECTOR LENGTH	25"		25"
UNITS/DIV.	5 M-MHOS		5 OHM-M
SENSITIVITY	1000		1000
ZERO DIV L OR R	0L		0L
SPEED-FPM	15		15
FLUID LEVEL	N/A	N/A	N/A
FORMATION FACTOR	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
SOURCE TYPE	STRENGTH	SPACING	MODEL NO
			SERIAL NO.
PERFORATIONS:			
REMARKS: TOOL RESPONSE AT 50'-53' WAS SEEN GOING IN AND OUT OF HOLE.			
WELL DRILLED BY: LAYNE			
DRILLER:			
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WELLENCO, INC.			



INDUCTION LOG

FILING NO. _____
COMPANY AMEC EARTH & ENVIRONMENTAL
WELL PZ-016
FIELD SANTA SUSANA FIELD LAB
COUNTY LOS ANGELES STATE CALIFORNIA
LOCATION: BOEING - ROCKETDYNE
 END OF WOOLSEY CYN RD.
 CHARNOCK
OTHER SERV:
 NEUTRON
 DENSITY
 CALIPER
JOB NO.
 33675
PERMANENT DATUM: GROUND LEVEL ELEV: N/A
ELEVATION:
 KB. _____
 DF. _____
 GL. _____
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM
DRILLING MEASURED FROM GROUND LEVEL

DATE 11-28-2000
TYPE OF LOG INDUCTION
RUN NO. ONE
DEPTH - DRILLER 65'
DEPTH - LOGGER 65'
BOTTOM LOGGED INT 63'
TOP LOGGED INT 0'
TYPE FLUID IN HOLE AIR/WATER
FLUID LEVEL N/A
MAX TEMP DEG F N/A
OPERATING RIG TIME N/A
EQUIP. LOCATION L-15 BFL
OPERATOR DAN IHDE
WITNESSED BY TODD HALL

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	65'	2"	PVC	SURF	65'

DEPTHS (1000) 100
 INDUCTION CONDUCTIVITY mhos/m (0) 0
 INDUCTION RESISTIVITY Ohms/M (1000) 100



DEPTHS (1000) 100
 INDUCTION RESISTIVITY Ohms/M (1000) 100
 INDUCTION CONDUCTIVITY mhos/M (0) 0



NEUTRON / DENSITY LOG

FILING NO. _____ COMPANY AMEC EARTH & ENVIRONMENTAL
 WELL PZ-017
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE OTHER SERV:
END OF WOOLSEY CYN RD. INDUCTION

JOB NO. _____
 33675 SEC _____ TWP _____ RGE _____

PERMANENT DATUM: GROUND LEVEL ELEV: N/A

LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM
 DRILLING MEASURED FROM GROUND LEVEL

DATE		11-29-2000	11-29-2000	
TYPE OF LOG		NEUTRON	DENSITY	
RUN NO.		ONE	ONE	
DEPTH - DRILLER		49'	49'	
DEPTH - LOGGER		49'	49'	
BOTTOM LOGGED INT		47.5'	47.5'	
TOP LOGGED INT		0'	0'	
TYPE FLUID IN HOLE		WATER	WATER	
FLUID LEVEL		FULL	FULL	
MAX TEMP DEG F		N/A	N/A	
OPERATING RIG TIME		N/A	N/A	
EQUIP.	LOCATION	L-15	BFL	
OPERATOR		DAN IHDE		
WITNESSED BY		TODD HALL		
RUN NO.	BORE HOLE RECORD		CASING RECORD	
	BIT	FROM	TO	SIZE
ONE	5"	SURF	49'	2"
				TYPE
				FROM
				TO

EQUIPMENT DATA

LOG TYPE		NEUTRON	DENSITY
RUN NO.		ONE	ONE
TOOL MODEL NO.		COSMOS	ORE
TOOL SERIAL NO.		T-2	T-37
DIAMETER		1 11/16"	1 11/16"
DETECTOR TYPE		HE3	GEIGER
DETECTOR LENGTH		4"	2"
UNITS/DIV.		50 CPS	500 CPS
SENSITIVITY		1000/250	5000/250
TIME CONSTANT		4 SEC	4 SEC
ZERO DIV L OR R		0	0
SPEED-FPM		15	15
FLUID LEVEL		FULL	FULL
FORMATION FACTOR			
PUMP RATE-GPM			
PUMP RATE-GPM			
PUMP RATE-GPM			
SOURCE TYPE	STRENGTH	SPACING	MODEL NO
AM-241-BE	3 CURIE	13"	71-1
CS-137	125 MCI	13"	FI-VD-HP
			B-030

PERFORATIONS:

REMARKS: 2" PVC FILLED WITH WATER PRIOR TO RUNNING
 NEUTRON AND DENSITY.

WELL DRILLED BY: LAYNE

DRILLER:

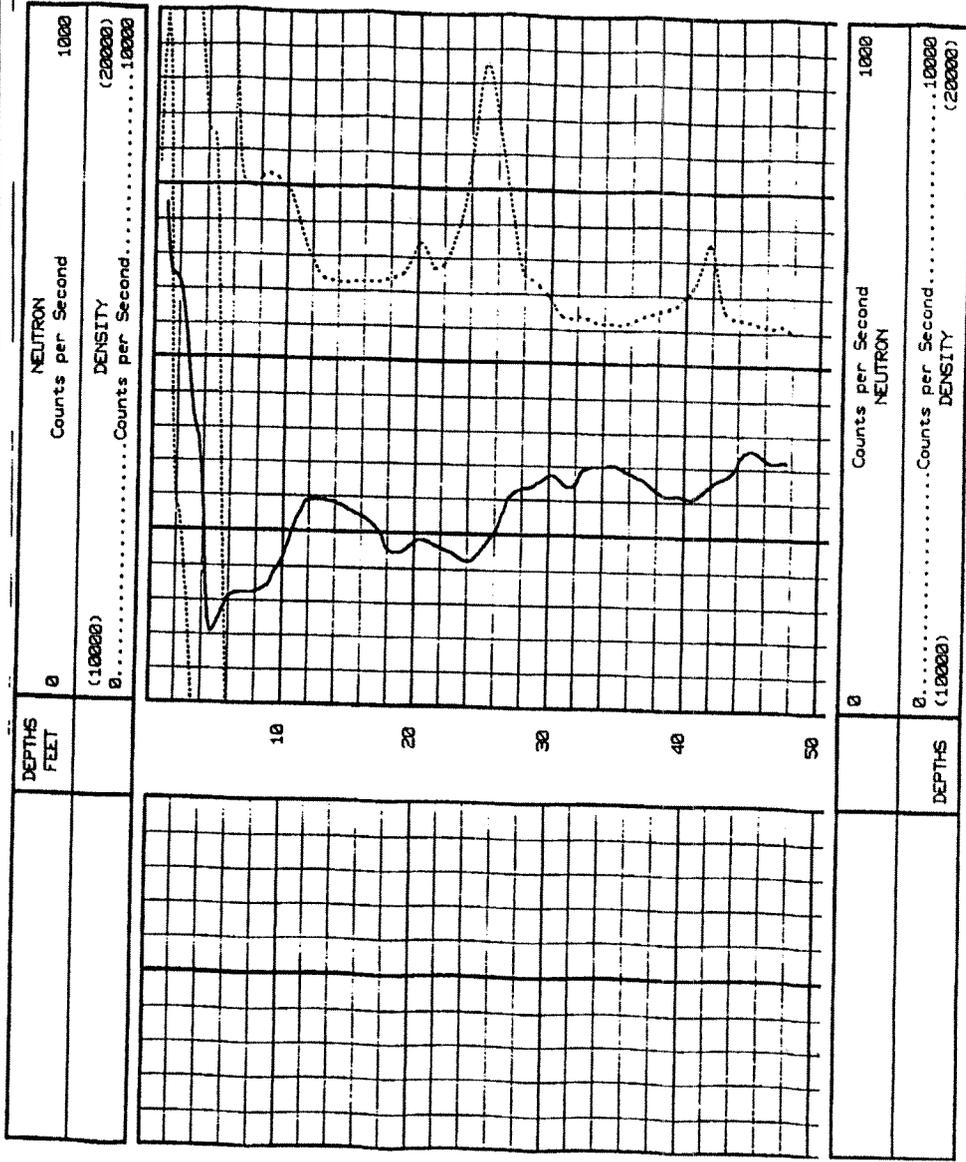
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WELENCO, INC.



NEUTRON / DENSITY LOG

FILING NO.	COMPANY	AMEC EARTH & ENVIRONMENTAL					
	WELL	P2-017					
	FIELD	SANTA SUSANA FIELD LAB					
	COUNTY	LOS ANGELES			STATE CALIFORNIA		
LOCATION: BOEING - ROCKETDYNE END OF WOOLSEY CYN RD.				OTHER SERV: INDUCTION			
JOB NO. 33675	SEC	TMP	RGE				
PERMANENT DATUM: GROUND LEVEL				ELEV: N/A		ELEVATION: KB. DF. GL.	
LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM							
DRILLING MEASURED FROM GROUND LEVEL							
DATE		11-29-2000		11-29-2000			
TYPE OF LOG		NEUTRON		DENSITY			
RUN NO.		ONE		ONE			
DEPTH - DRILLER		49'		49'			
DEPTH - LOGGER		49'		49'			
BOTTOM LOGGED INT		47.5'		47.5'			
TOP LOGGED INT		0'		0'			
TYPE FLUID IN HOLE		WATER		WATER			
FLUID LEVEL		FULL		FULL			
MAX TEMP DEG F		N/A		N/A			
OPERATING RIG TIME		N/A		N/A			
EQUIP.	LOCATION	L-15	BFL	L-15	BFL		
OPERATOR		DAN INDE					
WITNESSED BY		TODD HALL					
RUN NO.	BORE HOLE RECORD				CASING RECORD		
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	49'	2"	PVC	SURF	49'





INDUCTION LOG

FILING NO. _____ COMPANY **AMEC EARTH & ENVIRONMENTAL**
 WELL **PZ-017**
 FIELD **SANTA SUSANA FIELD LAB**
 COUNTY **LOS ANGELES** STATE **CALIFORNIA**

LOCATION: **BOEING - ROCKETDYNE
 END OF WOOLSEY CYN RD.
 CHARNOCK** OTHER SERV:
**NEUTRON
 DENSITY**

JOB NO. _____
33675 SEC _____ TWP _____ RGE _____

PERMANENT DATUM: **GROUND LEVEL** ELEV: **N/A** ELEVATION:
 KB. _____
 LOG MEASURED FROM **G.L. 0 FT ABOVE PERM DATUM** DF. _____
 DRILLING MEASURED FROM **GROUND LEVEL** GL. _____

DATE	11-29-2000	
TYPE OF LOG	INDUCTION	
RUN NO.	ONE	
DEPTH - DRILLER	49'	
DEPTH - LOGGER	49'	
BOTTOM LOGGED INT	47'	
TOP LOGGED INT	0'	
TYPE FLUID IN HOLE	AIR/WATER	
FLUID LEVEL	N/A	
MAX TEMP DEG F	N/A	
OPERATING RIG TIME	N/A	
EQUIP.	L-15	BFL
OPERATOR	DAN IHDE	
WITNESSED BY	TODD HALL	

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	49'	2"	PVC	SURF	49'

EQUIPMENT DATA

LOG TYPE	INDUCTION		RESISTIVITY
RUN NO.	ONE		ONE
TOOL MODEL NO.	GEONICS		GEONICS
TOOL SERIAL NO.	2		2
DIAMETER	1.25"		1.25"
DETECTOR TYPE	COIL		COIL
DETECTOR LENGTH	25"		25"
UNITS/DIV.	5 M-MHOS		5 OHM-M
SENSITIVITY	1000		1000
ZERO DIV L OR R	0L		0L
SPEED-FPM	15		15
FLUID LEVEL	N/A	N/A	N/A
FORMATION FACTOR	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A
PUMP RATE-GPM	N/A	N/A	N/A

SOURCE TYPE	STRENGTH	SPACING	MODEL NO	SERIAL NO.

PERFORATIONS:

REMARKS: **TOOL RESPONSE AT 16' - 20' WAS SEEN GOING IN AND OUT OF HOLE.**

WELL DRILLED BY: **LAYNE**
 DRILLER:

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WEL ENCO, INC.



INDUCTION LOG

FILING NO. COMPANY AMEC EARTH & ENVIRONMENTAL
 WELL PZ-017
 FIELD SANTA SUSANA FIELD LAB
 COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION: BOEING - ROCKETDYNE
 END OF WOOLSEY CYN RD.
 CHARNOCK
 OTHER SERV:
 NEUTRON
 DENSITY

JOB NO.
 33675 SEC TWP RGE

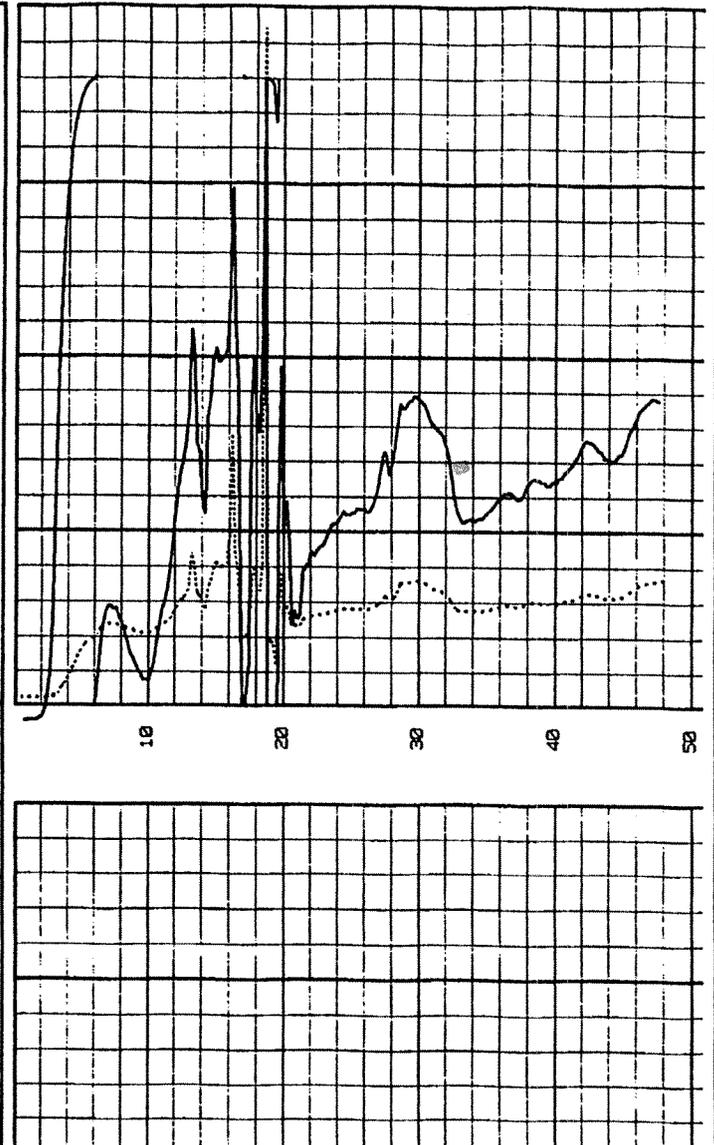
PERMANENT DATUM: GROUND LEVEL ELEV: N/A ELEVATION:
 KB.
 DF.
 GL.

LOG MEASURED FROM G.L. 0 FT ABOVE PERM DATUM
 DRILLING MEASURED FROM GROUND LEVEL

DATE	11-29-2000
TYPE OF LOG	INDUCTION
RUN NO.	ONE
DEPTH - DRILLER	49'
DEPTH - LOGGER	49'
BOTTOM LOGGED INT	47'
TOP LOGGED INT	0'
TYPE FLUID IN HOLE	AIR/WATER
FLUID LEVEL	N/A
MAX TEMP DEG F	N/A
OPERATING RIG TIME	N/A
EQUIP. LOCATION	L-15 BFL
OPERATOR	DAN IHDE
WITNESSED BY	TODD HALL

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	TYPE	FROM	TO
ONE	5"	SURF	49'	2"	PVC	SURF	49'

DEPTHS (1000) 100
 INDUCTION CONDUCTIVITY Mhos/M (0) 0
 INDUCTION RESISTIVITY (1000) Ohms/M (0) 0



DEPTHS (1000) 100
 INDUCTION RESISTIVITY (1000) Ohms/M (0) 0
 INDUCTION CONDUCTIVITY Mhos/M (0) 0