

From: Susan Strachan <strachan@dcn.org>
To: Casey Weaver <CWeaver@energy.state.ca.us>, <choffman@energy.state.ca.us>
CC: Susan Strachan <strachan@dcn.org>
Date: 2/7/2011 9:30 AM
Subject: Re: Walnut Energy Center Soil and Water-5 Amendment Responses to Questions
Attachments: TID well 5.pdf; TID well 126.pdf; TID well 312.pdf

Hi Casey - Attached is information you requested on the three wells from which water samples were collected - Wells 5, 126, and 312.

Regarding your second comment regarding Table 3 of the report which references: "Shallow Aquifer with WEC Site Well", Upper Aquifer with WEC Site Well", "Shallow Aquifer with South Washington Well", and "Upper Aquifer with South Washington Well", these were hypothetical wells for purposes of the groundwater modeling study. TID eventually drilled three wells on the WEC site; no wells were drilled on the South Washington Road site.

Please let me know if you have any further questions. Thanks.

Susan Strachan
 Strachan Consulting
 strachan@dcn.org
 530-757-7038 (Office)
 530-220-7038 (Cell)

On 1/26/11 1:34 PM, "Casey Weaver" <CWeaver@energy.state.ca.us> wrote:

> Hi Susan,
 >
 > Thanks for your clarifications and notifications of where in the document the
 > information resides!
 >
 > Most of my questions have been answered. One lingering detail is the well
 > construction details for the wells from which water samples were collected.
 > They are referred to as wells 5, 126 and 312, but no such well references are
 > provided on Table 3 or at least I don't know the convention to arrive at those
 > numbers from the well address/DWR File No.s provided in the table. Are there
 > well construction details for them?
 >
 > Also, Table 3 indicates "Shallow Aquifer with WEC Site Well", Upper Aquifer
 > with WEC Site Well", "Shallow Aquifer with South Washington Well", and "Upper
 > Aquifer with South Washington Well". Are these represented by 4 separate
 > wells? Do they have reference id numbers? DWR File No.s? Well address? Are
 > there well construction details for them?
 >
 > Just trying to get all the info tied together so we can make a determination.
 >
 > Thanks,
 >
 > Casey

DOCKET

02-AFC-4C

DATE Feb 07 2011

RECD. Feb 11 2011

>
>>>> >>> Susan Strachan <strachan@dcn.org> 1/25/2011 6:19 PM >>>
> Hi Casey -
>
> Thank you again for your quick review of the WEC amendment. In September of
> 2004, TID filed an amendment with the CEC (Amendment No. 2) to change the
> project's bridge water supply from potable water to poor quality groundwater.
> The answers to your questions can be found in that amendment. For your
> convenience, below, I have provided the link to the amendment from the CEC's
> webpage for the Walnut Energy Center.
>
> http://www.energy.ca.gov/sitingcases/turlock/compliance/2004-09-10_PETITION_WA
> TER.PDF
>
> Also, below in blue, is where the answers to your questions can be found in
> Amendment No.2 and/or Appendix A of the Amendment.
>
> 1. Do you have laboratory analyses of the degraded groundwater? We need
> something that demonstrates its poor quality. This information can be found in
> Amendment No. 2, Appendix A on page 3 and in Table 2.
>
> 2. In the first paragraph on page 5 of the AWSP, it is stated that "In
> practice these maximum impacts to all wells cannot occur simultaneously
> because the total extractions from the three on-site wells will not exceed the
> demands of the WEC. Thus when one WEC well is pumping at its maximum rate,
> other on-site wells must produce at lower rates than their maximum."
>
> Should this statement be revised to indicate the three wells could supply
> more than WEC could use? Yes.
>
> 3. On the bottom of p-5, it is stated that "If those future analyses
> determine that the well could in fact be impacted, then additional remedial
> actions could be taken, including, but limited to, additional treatment at the
> well head,..."
>
> Should this be revised to state "not" limited to? Yes.
>
> 4. What is the difference between the Shallow Aquifer (Figure 1) and the
> Upper Aquifer (Figure 2)? Can you provide a cross section that depicts the
> aquifers' characteristics? Please refer to Section 2.1, page 3 of of
> Amendment No. 2 and pages 1-4 and Figure 3 of Appendix A of Amendment No. 2.
>
> 5. Are there laboratory analyses conducted on groundwater samples obtained
> from these two separate aquifers? This information can be found in Appendix A,
> Table 2 of Amendment No. 2.
>
> 6. Which of the two aquifers is being dewatered by TID? This information is
> on Page 14 of Amendment No 2 and Page 7 of Appendix A. Which aquifers are
> screened by the WEC wells? The WEC wells are above the Corcoran Clay in the
> upper aquifer. A description of the wells is on page 3 of Amendment No.2.
>
> Please let me know if you have any additional questions.
>
> Thanks,
>
> Susan Strachan

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TURLOCK IRRIGATION DISTRICT

PURCHASE REQUISITION

DATE
10-23-90

442300937

REASON FOR PURCHASE REPLENISH INVENTORY STOCK OTHER EXPLAIN _____

VENDOR - 1ST CHOICE **J052850**
BYRON JACKSON PUMP DIV.
844 BROADWAY
CHICO, CA. 95926

VENDOR - 2ND CHOICE _____
PUMP 126

B50

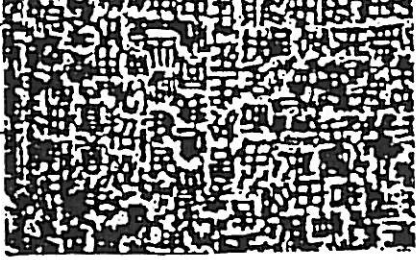
FOR QUESTIONS CONTACT **S. TUCKER** TERMS _____ F.O.B. POINT _____ SHIPPING TERMS _____ WILL CALL _____ DELIVERY DATE **2-3 wks.** P.D. NUMBER _____

ITEM	QUANTITY	U/M	DESCRIPTION	T.I.D. STOCK NUMBER	UNIT PRICE	U/M	TOTAL
1	1		12 MQL 1 STAGE BOWL W/10" x 10' SUCTION				3,522.00
2	60'		TWO 10" x 10' COLUMN T&C TWO 10" x 20' COLUMN T&C				1,188.00
3	60'		INNER COLUMN W/ SPIDERS				662.00
4	1		20 HP HS MOTOR W/ HARDWARE				1,257.00
							6,629.00
			COULD ONLY INSTALL 40' OF COLUMN BOWL		TAX		414.31
			AND 10' SUCTION. TOTAL OF 53'		TOTAL		7,043.31
			24" WELL GOES TO 16" @ 50' WELL SOMEWHAT CROOKED AND PUMP COULD NOT INTER INNER LINER.				

SPECIAL INSTRUCTIONS TO VENDOR

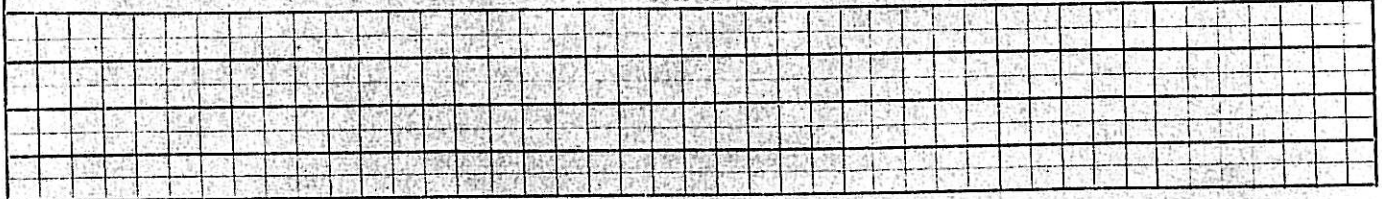
ITEMSI	ACCOUNT CODE			
	GENERAL	QJT	SECONDARY	EQUIP. #
	75394	27		

WHEN GOODS RECEIVED NOTIFY:
S. Tucker
 OK Rubal
 June



Commons Rd North of Lat 5

MAP



PROFILE

LOCATION Sec. 30-5-10 (Center)

DRILLED BY: T.I.D.

DATE: June 1935

no pipe line

REMARKS: Tested with air-pump

1050 G.P.M. 23'6" D.D.

950 G.P.M. 20'6" D.D.

770 G.P.M. 18'0" D.D.

LOG

Casing	Depth	Well	Type of Soil
	12		Soil
	16		Hard Pan
	18		Sand
			Sand & Clay
63ft.	24 in	30	
	Perf.		
			Clay
10ft.	Lap.	75	
		77	Sand
			Clay
			Sand
		140	
		144	Sand & Clay
257ft.		163	
	16 in.		Blue Clay
	Perf.		
			Brown Clay & Sand
		236	
		253	Gray Clay
		265	Sand



Byron Jackson Pump Division

BORG-WARNER CORPORATION

P.O. BOX 2017, TERMINAL ANNEX, LOS ANGELES, CALIFORNIA 90054

IMPORTANT
MAIL REMITTANCE TO NEAREST BOX
P.O. BOX 54056 TERMINAL ANNEX, LOS ANGELES, CALIF. 90054
P.O. BOX 91329 CHICAGO, ILLINOIS 60690
P.O. BOX 8241 CHURCH ST. STATION, NEW YORK, NEW YORK 10008

INVOICE COPY

PAGE 1 OF 1

STOMER'S ORDER NO. P.O. 11797	REQ. NO.	DATE ENTERED 5-5-70	ORDER NO. BJ 701-S-0216	FACTORY ORDER AND INVOICE NUMBER
SOLD TO: #8395000	SHIP TO: SAME		INVOICE DATE: 5-14-70	
TURLOCK IRRIGATION DISTRICT P.O. BOX 949 TURLOCK, CALIFORNIA 95380		CORPORATION YARD - TURLOCK		
WELL 312 WORK ORDER 376		SHIPPING DATE: 5-6-70		
MOORE TRUCK LINES (A)		BACK ORDER SCHD:		
F.O.B. FRESNO		SHIP VIA TRUCK		
SHIPMENT REQUESTED		COLLECT <input type="checkbox"/> PREPAID <input checked="" type="checkbox"/>		
MOORE TRUCK LINES (A)		EXPORT <input type="checkbox"/> PACKAGES <input type="checkbox"/>		
MOORE TRUCK LINES (A)		WEIGHT: 1922#		
MOORE TRUCK LINES (A)		SHIPPED FROM: FRESNO		
MOORE TRUCK LINES (A)		F.O.B. TERMS		

NO. UNITS	SIZE	NO. STGS. H/P	TYPE	MET. CL.	QUANTITY B/O	QUANTITY SHIPPED	AMOUNT
1	14 CGH	1	DWT	CIFB			
ITEM	QUANTITY ORDERED	DESCRIPTION			UNIT PRICE		
1	1	1 1/4 CGH 1 STAGE BOWL ASSEMBLY OIL LUBE				1	506.00
2	50	10" x 1-1/2 x 1" COLUMN COMPLETE				50	248.00
3	1	10" x 10" AG HEAD COMPLETE WITH FLANGE AND SOLENOID VALVE 220 VOLT				1	322.00
4	2	10" x 10" SUCTION AND DISCHARGE PIPE				2	106.00
5	1	20 HP 1200 RPM VHS/SRC G.E. MOTOR				1	605.00
6	1	20 HP 220 VOLT PUMPING PLANT PANEL G.E.				1	183.00
							\$1970.00
5% CALIFORNIA STATE AND LOCAL SALES TAX							98.50
TOTAL							\$2068.50

Quotation No.
 Order No.
 Chg. to Acct. No.
 Warrant No.
 Register No.

ORDER NUMBER
BJ 701-S-0216

Permission must be secured before returning goods for credit.
 We hereby certify that these goods were produced in compliance with all applicable requirements of Sec. 6-7-12 of the Fair Labor Standards Act, as amended and of regulations and orders of the United States Department of Labor Issued under Sec. 14 thereof.
 In accordance with our quotation, this order was accepted and made binding at our Home Office at Los Angeles, California, and title to the above described property, was transferred F.O.B., the factory shown above. All taxes, now or hereafter imposed in respect to this sale shall be for the account of the Purchaser, and if paid or required to be paid by us, the amount thereof, shall be added to and become part of the purchase price, payable by the Purchaser.

LOCATION N.E. cor. Clayton &
Commons Sec 19-5-10

DRILLED BY Osterberg & Stewart

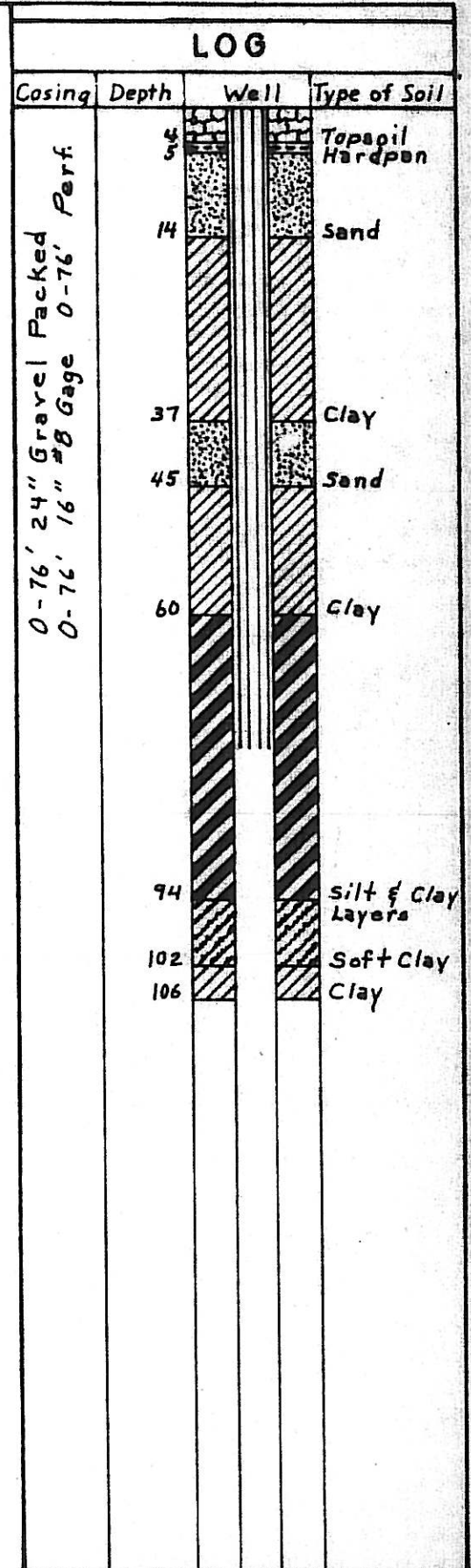
DATE May 8 1970

TYPE

DEPTH 106 ft

REMARKS

Water found 4 ft.





REQUISITION

DATE 7-22-94	P.O. #	FREIGHT YES
FOR QUESTIONS CONTACT S. TUCKER		REQUISITION # R018816

VENDOR NUMBER	DELIVERY DATE	EXPECTED 8-9-94	CRITICAL 8-9-94
BW/IP INTERNATIONAL INC. BYRON JACKSON PUMPS 844 BROADWAY CHICO, CA. 95928	REQUISITION REASON REPLACEMENT FOR PUMP 5		
WAREHOUSE - WHEN GOODS ARRIVE, NOTIFY: S. TUCKER			

ED GRENS #6694

ITEM	U/M	QTY.	DESCRIPTION	TID STOCK #	UNIT PRICE	TOTAL
1	EA	1	12GH 2STG. BOWL		1966.50	
2	FT	30'	8"X1"X1 1/2" COLUMN ASSY.		← 42.02	
			2PCS 10', 2PCS 5', 8X24" SUCTION		1260.72	
3	EA.	1	8X16 1/2 GSR DISCH. HEAD COMPANION FLG., MOTOR ADAPTOR PLATE ASSY.		11642.30	
4	EA.	1	10HP USH/HT/NRR 1200 RPM MOTOR		10570.00	

ITEMS	FUND	IMP. DIST. #	W.O. #	COST CENTER	OBJ.
1-4	001	—	75706	621	027
		CLOSE TO 51435			

#2

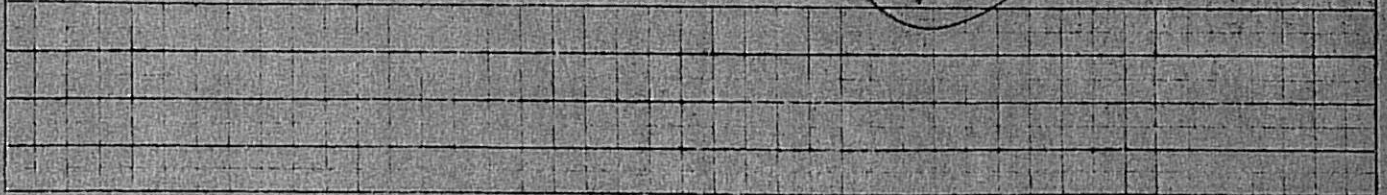
BY Richard Tucker

AUTHORIZED SIGNATURE

*Jan 1949 by Carl Talling
Perf with S.D. Perf tool from 10ft to 30ft
4 rolls of Holes*

9198.4m

MAP



PROFILE

LOCATION Beginning at the NE Cor. of Sec. 29-5-10
thence W 810.0 ft., thence S 20.0 ft.

DRILLED BY: Osterberg Bros. 70 ft. of 16" hole.

DATE: Aug. 25, 1922.

no pipe line

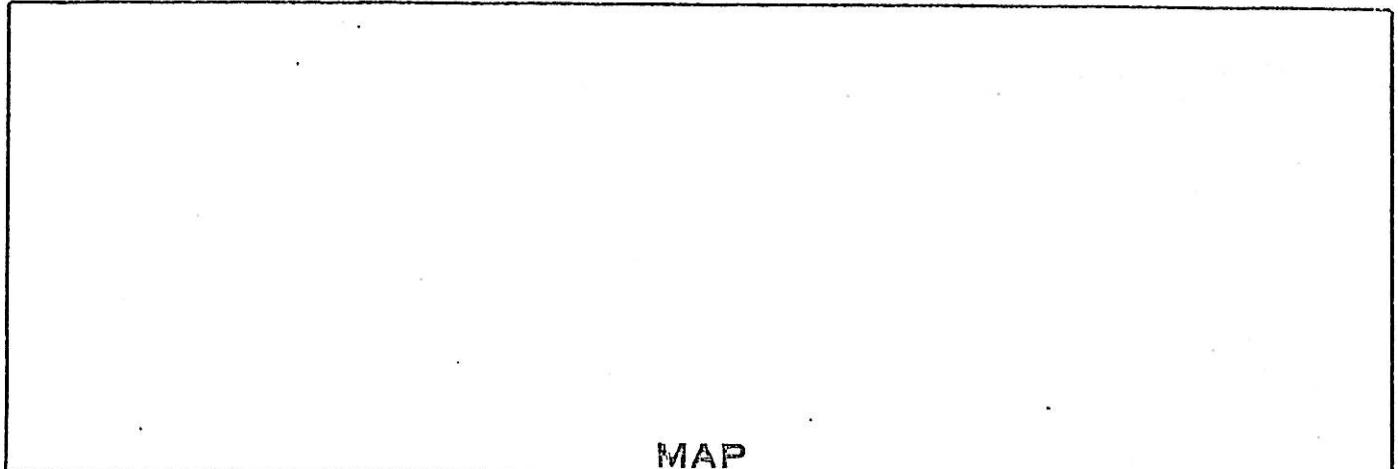
REMARKS:

~~Standard Pump
1600 - 14" - 20 H.P.
45 D.P.
2000 G.P.M. on 50 ft D.D. 1150 R.P.M.
Deepen well with 14" casing~~

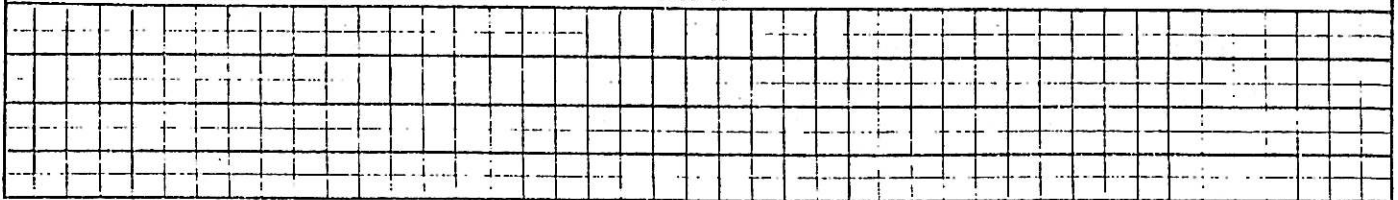
*2000 G.P.M.
24" ?
105' 14" casing*

LOG

Casing	Depth	Well	Type of Soil
40 of 16"	10		Top Soil
	20		Clay
	30		Sand
	40		
	50		Clay
	60		
	70		
	80		Sand
	90		
	100		
	110		
	120		
	130		
	140		
	150		
	160		
	170		
	180		
	190		
	200		
	210		
	220		
	230		
	240		
	250		
	260		
	270		
	280		
	290		
	300		



MAP



PROFILE

LOCATION Beginning at the NE Cor. of Sec. 29-5-10
thence W. 810.0 ft., thence S 20.0 ft.

DRILLED BY: Osterberg Bros. 70. ft. of 16" hole.

DATE: Aug. 25, 1922.

REMARKS: 500 g.p.m. 19 ft.
No pipe line.

LOG			
Casing	Depth	Well	Type of Soil
40' of 16"	10		Top Soil.
	20		Clay
	30		Sand
	40		
	50		Clay
	60		
	70		
	80		Sand
	90		
	100		
	110		
	120		
	130		
	140		
	150		
	160		
	170		
	180		
	190		
	200		
210			
220			
230			
240			
250			
260			
270			
280			
290			
300			