

Phone:

(805) 929-4153

Fax:

(805) 929-5598 Email: kochcal@earthlink.net

CITY OF FISHED BEACH

September 16, 1999

Michael Fuson, City Manager The City of Pismo Beach 760 Mattie Road Pismo Beach, CA 93449

SEP 1 7 1999

RECEIVED CITY CLERK (805) 773-4657 Phone (805) 773-7006 Phone

Request to Inspect and Copy Public Records Re:

Dear Michael Fuson:

This letter is a request to inspect public records which are in the possession of the CITY OF PISMO BEACH pursuant to the California Public Records Act (Govt. Code §6250, et seq.). Following the inspection, we may request copies of some or all of the records. In the event we request copying by the CITY OF PISMO BEACH we will, at that time, tender any required copying charges. However, we reserve the right to have copies of the records made at your location by an independent copying service of our choosing.

Please make the records available for inspection beginning on October 8th, 1999 at 10:00 a.m. Unless we are notified otherwise, we shall expect that the records will be available for inspection in the CITY OF PISMO BEACH office. The following is a list of the reasonably identifiable public records which we desire to inspect on or after October 8th, 1999 at 10:00 a.m.

- 1. All "Well Completion Reports" for each water well owned and/or operated by CITY OF PISMO BEACH.
- 2. For any water well for which a Well Completion Report is not in the possession of CITY OF PISMO BEACH, such other documents as are in the possession of CITY OF PISMO BEACH which show any of the following information: a) the well location, b) the name and address of the well driller, c) the date the well was completed, d) depth to first water below surface e) total depth of completed well.
- 3. Documents which show the amount of water produced from each water well owned and/or operated by CITY OF PISMO BEACH for each month from the completion of the well through to July 31st 1999.
- 4. All reports of hydraulic test results for each water well owned and/or operated by CITY OF PISMO BEACH, for the period beginning with the construction of the each well and ending July 31, 1999, which show any of the following information: a) standing water level, b)

File: Pismo Well date request 99 0916 Page 1 Printed: 9/17/99 5:42 AM

pumping water level, c) pumping amount, capacity or GPM.

5. All reports created during repair or maintance of CITY OF PISMO BEACH wells with a measure of: a) standing water level, b) pumping water level, c) pumping capacity or GPM during pumping water levels (such as those commonly found on Floyd wells or other contractor's Invoice, Repair order Invoice, or Well Drilling logs etc.) for the period beginning with the construction of the each well and ending July 31, 1999.

If a portion of the information contained in the records we have requested is exempt from disclosure by express provisions of law, Govt. Code §6254 requires segregation and deletion of that material in order that the remainder of the information may be released.

Please take note that Govt. Code §6256 requires the CITY OF PISMO BEACH to determine, within ten (10) days after receipt of this request, whether the CITY OF PISMO BEACH will comply with this request. If the CITY OF PISMO BEACH decides not to comply with all or any portion of this request, Govt. Code §6256 requires notification to us of the reasons for the determination not later than ten (10) days from your receipt of this request. Further, Govt. Code §6256.2 prohibits the use of any provision of the Public Records Act to delay access for the purposes of inspecting public records. Govt. Code §6256.2 also requires that any notification of denial of this request for records must set forth the names and titles or positions of each person responsible for the denial.

Thank you for your timely attention to our request.

John Snyder Vice President

Johnson

File: Pismo Well date request 99 0916 Page 2 Printed: 9/17/99 5:42 AM Copy of document found at www.NoNewWipTax.com



City of Pismo Beach 760 Mattie Road Pismo Beach, CA 93449 (805)773-4657 Fax: (805) 773-7006

September 29, 1999

Mr. John Snyder, Vice President Koch California Ltd. 662 Eucalyptus Road P.O. Box 1127 Nipomo, CA 93444

Re: Request to Inspect and Copy Public Records

Dear Mr. Snyder:

My office received your request to inspect and copy records on September 17, 1999. I apologize for the delay in getting back to you. Your request has been forwarded to the pertinent staff.

Pursuant to the Public Records Act, we are requesting a 10-day extension on complying with the request. I will call you as soon as the records are available for inspection at City Hall.

There will be a charge for copies but no charge for viewing the documents. The charge is 75 cents for the first page and 20 cents for each page after that, plus clerical staff time to copy at an hourly rate of approx. \$10.00.

If you have any questions, please let me know.

Sincerely,

Sharon Jones
City Clerk

cc: File



Phone:

(805) 929-4153

Fax:

(805) 929-5598 Email: kochcal@earthlink.net

September 16, 1999

Michael Fuson, City Manager The City of Pismo Beach 760 Mattie Road Pismo Beach, CA 93449

CITY OF PISMO BEACH

SEP 17 1999 Marketorical

RECEIVED CITY CLERK (805) 773-4657 Phone (805) 773-7006 Phone

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- All reports of hydraulic test results for each water well owned and/or operated by CITY 4. OF PISMO BEACH, for the period beginning with the construction of the each well and ending July 31, 1999, which show any of the following information: a) standing water level, b)

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pumping water level, c) pumping amount, capacity or GPM.

All reports created during repair or maintance of CITY OF PISMO BEACH wells with a measure of: a) standing water level, b) pumping water level, c) pumping capacity or GPM during pumping water levels (such as those commonly found on Floyd wells or other contractor's Invoice, Repair order Invoice, or Well Drilling logs etc.) for the period beginning with the construction of the each well and ending July 31, 1999.

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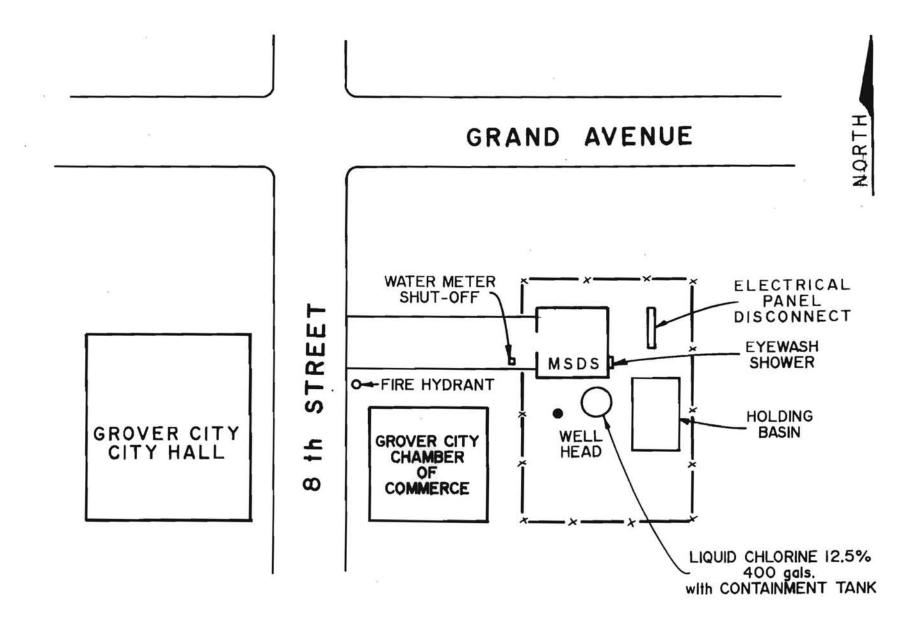
Please take note that Govt. Code §6256 requires the CITY OF PISMO BEACH to determine, within ten (10) days after receipt of this request, whether the CITY OF PISMO BEACH will comply with this request. If the CITY OF PISMO BEACH decides not to comply with all or any portion of this request, Govt. Code §6256 requires notification to us of the reasons for the determination not later than ten (10) days from your receipt of this request. Further, Govt. Code §6256.2 prohibits the use of any provision of the Public Records Act to delay access for the purposes of inspecting public records. Govt. Code §6256.2 also requires that any notification of denial of this request for records must set forth the names and titles or positions of each person responsible for the denial.

Thank you for your timely attention to our request.

John Snyder Vice President

John Mo

File: Pismo Well date request 99 0916 Page 2 Printed: 9/17/99 9:53 AM



WELL # 5 GROVER CITY

STATE OF CALIFORNIA

Do not fill in

THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

No. 174228

Notice of Intent No	State Well No
	75
(1) OWNER: Name City of Pismo Beach	(12) WELL LOG: Total depthft. Depth of completed well
P.O. Box 3 City Pismo Beach, Ca. 2,93449	from ft. to ft. Formation (Describe by color, character, size or material) -2 topsoil
City	2 -10 silt
(2) LOCATION OF WELL (See instructions): #8	10 -39 fine sand
Sales And Annual Control of the Cont	39 -62 coarse sand
Well address if different from above	62 -70 sand stone
TownshipRangeSection	70 -75 shale
Distance from cities, mads, railmads, fences, etc. 200' West of Highland Dr. and a mile North of Hwy 101	- 10.
	- 0 //2
	- //
N (3) TYPE OF WORK:	R
New Well * Deepening []	
Reconstruction	-// (5
Reconditioning O	- 1 G M
Reconditioning	15 11 - 14A
	112-11)
	- 6 - 6 - 6
. (1) 11010022 002	
Domestic Contraction of the Cont	1-11-1
Highway 101 Industrial	(1)
Industrial Pest Welt	4/9
Stock	111111111111111111111111111111111111111
Municipal	(2)
WELL LOCATION SKETCH Other	<u> </u>
(5) EQUIPMENT: (6) GRAVED PACK MONTER GOOD	//
Rotary Reverse No Sizes O DE 12	CHAVEL CHUTE
Cable Air Dagleter of bore 14th	3 6 6 8 8 8
Other Bucket Packed from 30 to 75	
(7) CASING INSTALLED (8) PERFORATIONS: Slot	6° -
Steel Plastick Concrete Type of perforation or size of screen	9) -
From To Dia. Cage or From To Cage	- (a)
ft. ft. in. Wall ft. size	- w
+2 73 84) Sch. 33 68 .050	- Pi:
200	-
(9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth 30 ft.	-
Were strata sealed against pollution? Yes No Intervalft. Method of sealing Camon t - 2 wards	-10-31 Work started 1985 Completed 11-1 185
(10) WATER LEVELS:	WELL DRILLER'S STATEMENT:
Depth of first water, if knownft.	This well was drilled under my jurisdiction and this report is true to the best of my
Standing level after well completion	knowledge and belief.
(11) WELL TESTS: Was well test made? Yes No If yes, by whom?	(Well Driller)
Type of test Pump Bailer Air lift	NAME Myers Brothers, Inc.
Depth to water at start of test[t. At end of test[t	(Person, firm, or corporation) (Typed or printed) Address 8650 E Lacey Blvd.
Dischargegal/min afterhours Water temperature	City Hanford CA. 93230 Zip
Chemical analysis made? Yes No If yes, by whom? Was electric log made? Yes No If yes, attach copy to this report	License No. 280310 Date of this report 11-6-85
	EXT CONSECUTIVELY NUMBERED FORM

Myers, Rold & Hauser

Sont Thin Cloub

City of Grover City



154 S. 8th Street «> Grover City, California 93433 «> P. O. Box 365 «> Phone 489-4040

August 21, 1973

Mr. Doug Jones, City Administrator - City Clerk City of Pismo Beach P.O. Box 3 Pismo Beach, California 93449

Dear Mr. Jones:

Grover City has reviewed your preliminary plot plan for your water well site on the east side of South 8th St., between Grand Ave. and Rockoway Ave.

Since this site is in our civic center area, Grover City hereby requests that Pismo Beach adopt the following development standards.

- 1. That the fence encasing the well area have a west wall six (6) feet high, constructed of either masonry stone or concrete blocks. It is realised that this wall would have a gate sufficient in width to provide passage of a truck for access into the well area.
- That sidewalks be installed along the street front.
- 3. That a street tree be planted.
- 4. That the area between the sidewalk and the masonry wall be permanently landscaped and maintained.

Your City's consideration of this request will be greatly appreciated. If you have any questions on this matter, please do not hesitate to contact me.

Sincerely,

KENNETH O. BERRY, City Administrator - City Clerk

KOB/vod



RGANIZATION File Well #8



CITY OF PISMU DEACH PUBLIC SERVICES

June 20, 1989

City of Pismo Beach ATTN: Hal Halldin P.O. Box 3 Pismo Beach, CA 93449

Hal.

As per our June 12th conversation, enclosed please find a copy of our Desalting Proposal made to the City of Morro Bay. If you would like, I can provide additional information at any time.

When you obtain the Well #8 Hydrogen Sulfide information. please drop it in the mail or give me a call a 544-1740. The number on the stationery is my other office and I'm not at that number often.

Thank you again for the opportunity to discuss Desal and observe the U-DAT Team.

Regards.

Mike Spangler General Manager



PROPOSAL No. 05902

AUGMENTED WATER SUPPLY FOR THE CITY OF MORRO BAY, CALIFORNIA

prepared for the

DEPARTMENT OF PUBLIC WORKS, CITY OF MORRO BAY

June 6, 1989

Prepared by

H2ORGANIZATION, INC. San Luis Obispo, CA

Approved	:		
	Michael	Snandler	

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- 1.0 Introduction and Summary
- 2.0 Description of Plant and Processes
- 3.0 Commercial Data

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1.0 ---Introduction and Summary

The H2Organization, Inc. of San Luis Obispo, CA, at the request of the Morro Bay Department of Public Works, has prepared this proposal for augmentation of the City's water supply by way of desalination.

H2O is prepared to analyze the possibility of a 200,000 GPD (224 AFY) desalination plant on the local PG&E property and using their outfall and intake structures to facilitate the production of up to this quantity of water from seawater. The primary process to be used is reverse osmosis.

The plant would be sized so as to make use of the most favorable off-peak electric power rates. Thus, the actual utilization of the plant might be about 140 to 175 AFY so as to minimize the production cost of the final product water. If the additional production is needed, the difference between average costs as compared with off-peak costs is not so large as to eliminate 100% operation as an cost effective situation.

The produced water will meet all City, County and State standards for potable water containing less than 500 PPM of total dissolved solids. The finished water will be delivered to the City of Morro Bay at the boundary of the PG&E property at a pressure to be determined during future negotiations. The quality of the water will meet all necessary standards for Langelier Index, corrosivity, and disinfection.

The proposed plant would consist of pretreatment, desalting and posttreatment sections fully automated for minimum operator intervention. The hydraulic recovery rate of the plant is 45% (fraction of seawater converted to potable water). The design availability of the plant is 92.0%, meaning that the mean time to repair (MTTR) is estimated to be less than 36 hours per month. Cleaning and flushing equipment is included as part of the plants design.

An option might exist to have PG&E personnel trained to monitor the plants operation to minimize the cost of dedicating additional personnel. PG&E has skilled persons already available.

All maintenance, repair and technical service activities are to be carried out by the H2Organization, Inc. personnel. Start up and future operations would be handled through maintenance agreements to be negotiated.

The actual delivered cost of the water will depend on the amount of water consumed. The estimated cost per acre-foot (AF) ranges

from a low of \$1416.00/AF during off-peak energy utilization to a high of \$1972.00/AF during times when energy uses are at peak cost. For year-round operation at full plant capacity, the estimated cost of water would be around \$1536.00/AF.

If it becomes necessary to operate the during peak or near peak electric rate times, surcharges will be computed based on the contracted energy costs. If the City finds it necessary to temporarily interrupt the demand for this water source, a flat standby fee of \$668.00/day would be charged to cover costs of maintaining the on line water production availability. The time required to restart the plant depends on the length of time the plant has been off line and is discussed in the body of this proposal.

It is anticipated that mean daily production at off-peak hours will yield an annual flow of water in the amount of 161 AFY. The respective cost is expected to approximately \$1435.00/AF. The plant can be constructed and installed within a period of about 16 to 22 weeks, depending on completion of drawings and the administrative review procedures.

The H2Organization, Inc. was formed to meet the needs of the Central Coast water consumers. The personnel involved have many years of experience in the design, operation and construction of desalting plants. The plant equipment to be constructed is, for the most part, fabricated by California manufacturers and shops including critical components such as membranes and pressure tubes. The manufacturer of the membrane is the world leader in membrane technology having been the original developer of the asymmetric desalting membrane. Personnel involved in this organization have been active in the membrane desalting business for at least 15 years each.

The company is financially sound and can guarantee production of water at the stated quantity and quality in accordance with typical contract specifications.

The best method and approach for delivery of water to the City can only be verified through further investigation and study. Specific items of investigation will include financing methods, demand schedule for water, water quality criteria and monitoring requirements and interconnection and delivery methods. Also important consideration are start-up and interfacing requirements. Because of these special needs, we recommend that the City authorize preparation of a detailed plan and report showing the methods to be used for furnishing the new water supply. This would require involvement of City staff for information and management input. Our fee for preparation of the report is:

H2O Fee \$5,000.00

2.0 Description of Plant and Processes

The proposed plant consists of a single train of reverse osmosis (RO) pressure vessels housed in high strength corrosion resistant fiberglass reinforced plastic pressure tubes fitted with corrosion resistant stainless steel fittings. Feedwater for the plant is withdrawn from the PG&E outfall which contains seawater which has been heated by about 20 degrees C. The feedwater is then elevated in pressure and pre-treated in a filtration subsystem where inline coagulation is used to remove particulate and organic matter. The feedwater is then chemically treated with sodium bisulfite to maintain bacteriostatic conditions and to limit oxidative attack of the membranes. During this process, the sodium bisulfite is oxidized to harmless sodium sulfate, a component already found in seawater in large amounts.

The feedwater is then further treated with a commercial scale and fouling inhibitor, Flocon-100, which inhibits formation of sparingly soluble compounds such as calcium sulfate and calcium carbonate. Subsequently, it is further filtered in a five micron cartridge filter to remove smaller particles.

The pre-treated feedwater is then pumped into the suction side of a high pressure plunger-type pump constructed of proven corrosion resistant materials. Typically, this pump would be of quintuplex design and be equipped with pulsation dampeners, an electric motor drive, pulleys and belts. Additionally, in order to conserve energy and minimize production costs, the pump input power is partially furnished by an hydraulic recovery turbine couple to the pump. The turbine recovers energy from the high pressure waste water, the brine, leaving the RO system. Typically, about 40% of the necessary energy is furnished by the recovery turbine.

The proposed plant would operate at or about 900 PSI depending on the feedwater temperature. At higher temperatures, the pressure would be dropped, while at lower temperatures the pressure would increase. Because of the incorporation of an energy recovery turbine, the net power to the RO system will vary only slightly as function of temperature but will decrease somewhat as the temperature rises.

Product from the RO system would flow at an instantaneous rate of about 139 GPM while the feed rate would be 309 GPM. The waste brine flow would be 170 GPM, all of which would be directed to the energy recovery turbine before being admitted to the outfall.

The RO product water will be very low in TDS, about 200-400 PPM, and have a pH of about 6.0 as it exits the RO train. Because of the absence of calcium and alkalinity and having a low pH, the

water requires further treatment. Therefore, the RO product is treated additionally by addition of calcium alkalinity.

This is accomplished by passing the RO product water through beds (calcite filters) of specially prepared calcite which adds calcium alkalinity to the product. To adjust the Langelier Index to the region where corrosion is low, the water is further dosed with a small amount of soda ash which adds a bit more alkalinity and elevates the pH to the desired endpoint. The exact composition of the final post-treated water will depend on the City's requirement for their final blended quality. We will be able to tailor the composition of the treated RO product so as to produce the most favorable quality desired by the City.

To maintain disinfected conditions, a small amount of sodium hypochlorite will be added to the post-treated RO product. The exact amount would be determined by discussion with City personnel. Typically, this value would be around 0.4 PPM of residual chlorine.

The entire plant is controlled by a modern computer - based controller and is capable of unattended operation. Alarm systems prevent operation at off- specification conditions and key personnel are automatically notified in the event of an unscheduled emergency outage.

Whenever the plant shuts down, a freshwater flush of product water is admitted to the membrane feedwater port so as to avoid diffusion of salt from the brine channel into the product stream and to limit fouling of the membranes. On restart, the product water is then free of solids and can be admitted directly to the storage buffer tank before being transferred to the City's main.

From time to time, it will be necessary to clean the RO system so as to remove deposits from the membrane surfaces. This is done by circulation of safe cleaning chemical solutions through the RO system until the deposits are removed. A separate subsystem consisting of a batch tank, agitator, cleaning solution circulating pump and inline filter is used for this purpose.

On occasions, the City may deem it necessary to place the plant in standby either for repair of City mains or lines, or for temporarily discontinuing the production of RO water because of the availability of a different more preferable source. In these case, upon notification, we would partially decommission the plant in a manner suitable for the time selected for decommissioning. If the plant is to be offline for up to 5 days, then it will be simply rinsed with product water and held in the "Standby Mode". In this case, the plant can be restarted within a few minutes, either automatically or manually. If the outage is to be of longer duration, the RO plant would have to be filled

with disinfection preservative solution and then rinsed before start-up. The latter is a longer procedure requiring about 4 hours before restarting the plant.

A small buffer tank receives the treated RO water which is then pumped into the City's lines. The exact pressure required at this point is not known at this time. Quality assurance of the product water at this point would be ensured by automatic monitoring of TDS, chlorine concentration, pH, pressure and temperature. Flow rate and integrated flow additionally would be monitored to determine production data for the purpose of billing.

3.0 Commercial Data

- - - - - :

We propose to fabricate, install and operate the plant for the sole purpose of augmenting the City's water resources. However, the plant could be operated in a manner permitting transfer and sale of water to other municipal or commercial water purveyors as well. The mode of operation, the length of time between runs will depend in part on demand, cost of operation and storage facilities.

The installation of large storage tanks for facilitating blending and keeping water quality in the line as constant as possible has not been addressed in our design at this time. This factor requires additional evaluation to select the best overall arrangement of equipment, tankage, and RO system operation.

The cost of water to the City will depend largely on the overall demand and time of the day and week that water is being produced. The cost of power to produce the water increases during peak power demands on PG&E's system; conversely, during low use periods and on weekends, the cost of power falls. These energy charges impact the final cost of delivered water.

At times when the City desires to stop flow from the RO plant, standby charges continue to accumulate. These charges are the minimum charges per month that we will charge for maintaining the plant in a state of readiness so that water can be produced in no more than about 4 hours.

The water cost table shown below depends on the time of day and exact day on which the water is being delivered to the City. These variations generally follow the PGEE tariff covering commercial power accounts.

ESTIMATED COST OF WATER TO THE CITY OF MORRO BAY

Time of Day	Cost	(\$/AF)
,	Summer	Winter
9:30 PM-8:30 AM	1477.00	1416.00
8:30 AM-12:00 N	1650.00	1416.00
6:00 PM-9:30 PM	<u>,n</u> ;	п
12:00 N-6:00 PM	1972.00	1416.00

An option for the City is to contract for 100% plant load in which case we would furnish the maximum capacity of the plant. Under this condition the cost of water would be averaged at:

\$1536.00/AF, average annual cost at 100% plant load

The maximum annual capacity is estimated to be 213 AFY depending on the actual plant availability factor which would be governed by local conditions.

A second option is to "park" the plant until additional water is desired by the City. Under these conditions, there would be a daily standby charge for each day that the City opted not to receive any water. This charge would amount to:

An estimated \$481.00 standby charge per day of zero production

If the City requests production but our plant is down for maintenance or repairs, there would be no daily standby charge. We estimate that the plant would be available 92% of the time and that no outage period due to maintenance or repairs would exceed 28 hours. Thus, the design maximum capacity of the plant is 206. AFY based on the above availability factor. The instantaneous capacity of the plant is 224 AFY.

1.0	Monthly management, supervision, and engineering fee: \$668.00
2.0	Monthly water billing charges: Net 30 days from invoice date. Invoice to show production time of day totals and charges.

STATE OF CALIFORNIA

THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES

Do not fill in

No. 174228

Notice of Intent No. WATER WELL DI	RILLERS REPORT State Well No
ocal Pennit No. or Date	Other Well No
(1) OWNER: NameCity of Pismo Beach	(12) WELL LOG: Total depth 75 ft. Depth of completed well 73 ft.
Address P.O. Box 3	from ft. to ft. Formation (Describe by color, character, size or material)
Pismo Beach, Ca. 7,93449	0 -2 topsoil 2 -10 silt
(2) LOCATION OF WELL (See instructions): #8	
San Luis Obispo Owner's Well Number #8	10 -39 fine sand 39 -62 coarse sand
Well address if different from above	37
Township Range Section Section	62 -70 sand stone
Distance from cities, roads, railroads, fences, etc. 200 West of Highland Dr. and mile North of Hwy 101	70 -75 shale
highland br. and 2 mile North of hwy 101	
	<u>- </u>
N (3) TYPE OF WORK:	
New Well X Deepening [
December 1	33 //-
200 Reconditioning	
Horizontal Well	
60	1110
Destruction (Describe destruction materials and procedures in Item 12)	
(4) PROPOSED USE	- 60 W
Domestic Domestic	
- Irrigation C	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Highway 101 Industrial	OF A HO
Test Well	(1/2)-
Stock B	11) - 2 (20
Municipal	
WELL LOCATION SKETCH Other	V 65/10
(5) EQUIPMENT: (6) GRAVED PACK MON CATE PORCE	// - milyer (1999)
Rotary & Reverse No Size 12	CHÂVEI, CHUTE
Cable Air Dagreter of bore 14	2"PVC \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Other Bucket Parked from 30 to 75	
(7) CASING INSTALLED (8) PERFORATIONS: Slot	
Steel Plastick Concrete Type of perforation or size of screen	(9)
	-
ft. ft. Dia. Case or From To Slot size	2111
+2 73 84 Sch. 33 68 ,090	- Pi,
200	
· Fills	
(9) WELL SEAL:	
Was surface sanitary seal provided? YeV No If yes, to depth 30 ft.	iπ
Were strata sealed against pollution? Yes . No . Intervalft.	-10-31
Method of sealing Coment - 2 yards	Work started 1985 Completed 11-1 195
(10) WATER LEVELS: Depth of first water, if knownft.	WELL DRILLER'S STATEMENT:
Standing level after well completion	This well was drilled under my jurisdiction and this report is true to the best of me knowledge and belief.
(11) WELL TESTS:	Signed
Was well test made? Yes No I If yes, by whom?	(Well Driller)
Type of test Pump Bailer Air lift Depth to water at start of test ft. At end of test ft.	NAME Myers Brothers. Inc. (Person, firm, or corporation) (Typed or printed)
Depth to water at start of testft. At end of testft Dischargegal/min afterhours Water temperature	Address 8650 E Lacey Blyd.
Chemical analysis made? Yes No If yes, by whom?	City Hanford, CA. 93230 Zip.
Was electric log made? Yes Now If yes, by whom?	License No. 280310 Date of this report 11-6-85
	NEXT CONSECUTIVELY NUMBERED FORM

Myers, Rold & Hauser

Sont Tim Class

Miller Drilling Co. Contractors License No. 324634

-	 TEST	B B B 4	

II Add	Myers Brothers		Pump Sel:		
Hilling Address: New Myers Brothers 8650 Lacey Blvd.					nn:
	Hanford, Calif. 93:	T	esting Method:	Submerible	
			orf Rec:		
anding Level	Before Testing:11				
		TESTING			
TIME	PUMPING LEVEL	WATER CON	DITION	BOWLS	GPM
8.51		start pump			
B. 56	29.1"	10777702			150
9.01	30'57"	clear			150
9.06	31'68"			10000	
9.11	32'54"				
9.31	39, 114"				
9.26	34'67"	clear			
9,45	36'60"				
10.02	17'97"				
10.32	39'40"		0		
11.02	40'29"				•
11.42	41'10"				•
12.02 pm	41/36"				
12.12	11/30	increase 20 200	g per		
12.17	47'74"				200
No openio anno	48'57"				200300
13:33 12.28	49 ' 29 "				
12.43	50'14"				
200 NOV	50'75"				
1.18	51'26"	0.00			
50 100 m		3.0			
1.38	51'73"				
1.58	52!25"	/ b- 2		-3 -1-5 -5 -1-	-1d to 313
2.13	521430	increase to 2	ou gpm , pump	ed alot of air,	slowed to 212
OTES:					
5.					
				- /	
inding Level	After Testing:				
TECT DE	SULTS: Produced	CPM Inc	hours on (date)	11/10/05	
IND IEST NE	SOLIS: Floduced	OF M 101	nouse on tadies	11/13/113	
f Run By:					

501 N. Main St. Templeton, CA 93465

Miller Drilling Co. Contractors License No. 324634

BOB MILLER (805) 434-1888

PUMP	TEST	REPOR	ł

### ##################################		Well Dept	GPM 211
TIME PUMPING LEVEL 2.30 55'72" 2.45 56'01" 2.00 56'28" 2.15 56'36" 2.30 56'64"	Perf Rec:	WATER OVER	GPM 211
TIME PUMPING LEVEL 2.30 55'72" 2.45 56'01" 2.00 56'28" 2.15 56'36" 2.30 56'64"	TESTING	WATER OVER	211
TIME PUMPING LEVEL 2.30 55'72" 2.45 56'01" 2.00 56'28" 2.15 56'36" 2.30 56'64"		WATER OVER BOWLS	211
		WATER OVER BOWLS	211
	WATER CONDITION	BOWLS	211
.45 56'01" .00 56'28" .15 56'36"			
.00 56'28" .15 56'36" .30 56'64"		-	
1.15 56'36" 1.30 56'64"			211
30 56'64"			210.5
			209.5
			209
56'85"			207
.10 57'11"			207
57'35*	shut down		20.7
		9	
	Ţ.	 	
		-	
			_
	•		
OTES:			
	_		
nding Level After Testing:			
AL TEST RESULTS: Produced	SPM for hours on Idat	11/19/85	
	or in the nours on tour		
Run By:			

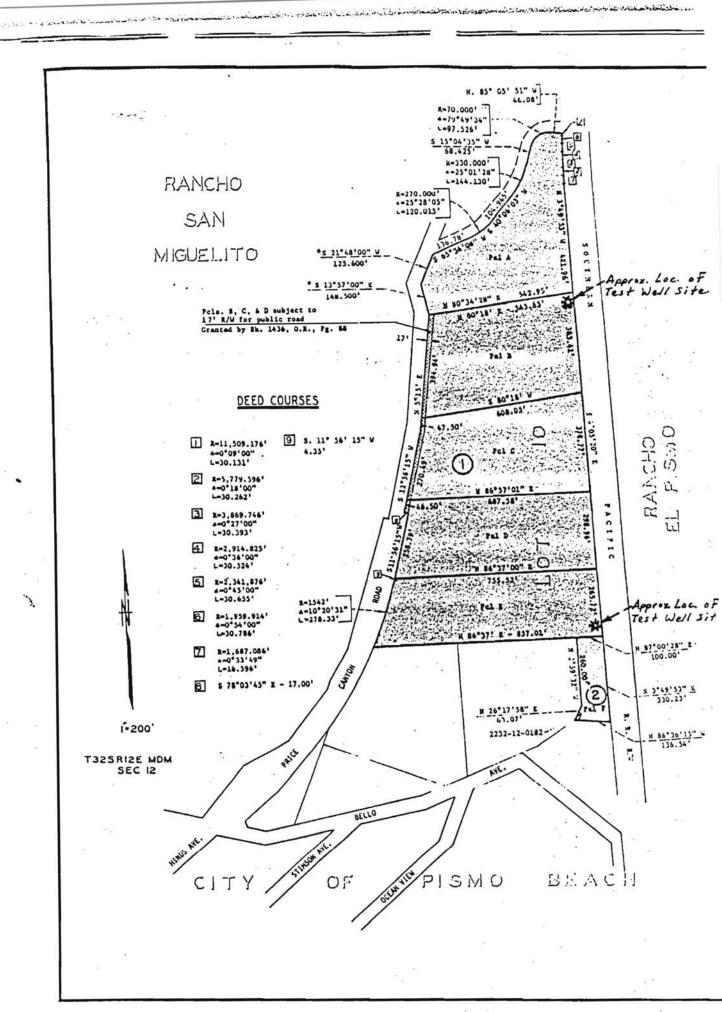
501 N. Main St. Templeton, CA 93465

Miller Drilling Co. Contractors License No. 324634

BOB MILLER (805) 434-1888

PHIMP	TEST	DED	

Vell Owner:	City of Pismo Beac	h Pump 5et:	Well # #1	te#8
illing Address:	Myers Brothers	Pump Size:	4" Well Dept	h: 70' 8" casi
		Teeting Metho	od: submerible	
		Peri Rec:		
	965			
itanding Level B	elore Testing:12.1	25		
		TESTING		
TIME	PUMPING LEVEL	WATER CONDITION	BOWLS	GPM
8.25		start pump		
8.30	31.13			150
8.45	34.78	clear		*
9:00	37.32			•
9.135	38.69			
9.35	40.26	eleor		
9.45	40.83			
10.05	41.53			
10.25	42.21			
10.55,34	42,90	183855		
11.25:39	43.37	184321		•
11-55:36	43.53	194770		
12.25.38	43.83	185222		
12.55:33	43.98	185683		
1.25:31	44-15	186138		
1.55+36	44.25			,
2.25:32	44.45	186587 187039		
2:55:37	44.55 Increase	187487		
3.25.31	45.36			-
3.55:37	45.53	1879 44 188397		-
	45.70			-
4.25:39		188849		-
5.25:33	45.74 45.75	189761		
5.55:40	45.88	190218		
6.25:36	46.14	190677		
NOTES:				
tanding Level A	iter Testing:			
		GPM for hours on (do	11/20/85	
INAL IESI KES	ours: rioduced	SPM for nours on tac		
est Run By:				



STATE OF CALIFORNIA

Do not fill in

. - . . THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES

No. 174228

Notice of Intent No. WATER WELI	DRILLERS REPORT State Well No
Local Permit No. or Date	Other Well No
(1) OWNER: NameCity of Pismo Beach	(12) WELL LOG: Total depth 75 ft. Depth of completed well 73 ft.
P O Roy 3	(12) WELL LOG: Total depth 17 ft. Depth of completed well 73 ft. from ft. to ft. Formation (Describe by color, character, size or material)
Address Pismo Beach, Ca. zi93449	0 -2 topsoil
	2 -10 silt
(2) LOCATION OF WELL (See instructions): County San Luis Obispo Owner's Well Number #8	10 -39 fine sand
Well address if different from above	39 -62 coarse sand
Township Range Section	62 -70 sand stone
Distance from cities, roads, railmads, fences, etc. 200 West of	70 -75 shale
Highland Dr. and 2 mile North of Hwy 10	01 -
	- 0
	-
N (3) TYPE OF WO	
New Well Deepen	
200 Reconstruction	
Reconditioning Horizontal Well	
Reconditioning Horizontal Well Destruction (Description materials of	- 112
destruction materials a	
(4) PROPOSED	- 60
Domestic	10 10
Irrigation	8 1-11
Highway 101 Industrial	0 000
Pest Well	
Stock	A 100
Municipal	
WELL LOCATION SKETCH Other	
(5) EQUIPMENT: (8) GRAVED PACK MOINTER ST	GRAVEL CHUTTE
Rotary (Reverse No Sizes (No)	P2 2"573" 2"PYC
Cable Air Pareter of bore 14	
Other Bucket Packed from 29 10 12	
(7) CASING INSTALLED (8) PERFORATIONS: Slot	
Steel Plastica Coccepte Type of perforation or size of screen	- 0111
ft. ft. Wall From To St. 2 s	
	0 -
+2 73 85 Sch. 33 68 605	
	-
(9) WELL SEAL:	
[188] [188] - 188] [188] - 188] [188] - 188	<u> </u>
Were strata sealed against pollution? Yes No Interval	ft10-31
Method of sealing Coment - 2 yards	Work started 1985 Completed 11-1 195
(10) WATER LEVELS: Depth of first water, if known	WELL DRILLER'S STATEMENT:
Standing level after well completion	This well was drilled under my jurisdiction and this report is true to the best of m knowledge and belief.
(11) WELL TESTS:	SIGNED
Was well test made? Yes O No O If yes, by whom? Type of test Pump O Bailer O Air lift O	NAME Myers Brothers, Inc.
Depth to water at start of testft. At end of test	ft (Person, firm, or corporation) (Typed or printed)
Dischargegal/min afterhours Water temperature_	Address 8650 E Lacey Blvd.
Chemical analysis made? Yes No If yes, by whom?	City Hanford, CA. 93230 Zip. 11-6-85
Was electric log made? Yes Now If yes, attach copy to this report	License No. 280310 Date of this report 11-6-85
DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, U	USE NEXT CONSECUTIVELY NUMBERED FORM

Myers, Rold & Hauser

Sout Tim Cleath 3 copies

501 N. Main St. Templeton, CA 93465

Miller Drilling Co.

Contractors License No. 324634

BOB MILLER (805) 434-1888

PUMP TEST REPORT

TIME	Before Testing:12	Testing Meth	od:	
TIME	Before Testing:	Peri Rec:		
TIME	Before Testing:12			
		.25		
		TESTING	WATER OVER	
5.55:40	PUMPING LEVEL	WATER CONDITION	WATER OVER BOWLS	GPM
	46,27	191140		150
7.25:36	46.40	191607		150
55:40	46.47	192076		
3.25:37	46.52	132257		
3.55:50	46.64	193022		
25,48	46.71	19347.5		17.27
.55:30	46.75	19395.2		
10.25:59	46.80	19445.5		
10.55:37	46.85	19491.3		
1.25:40	46.87	19540.0		
1.55:35	47.0	19584.2		
2.25:40	47-05	196313		200
25.35	47.16	19725.6		
2.25:40	47.35	19837.6		
3.25	47,60			5.00
25				"
. 25: 30	48.0	20132.6		"
.25:40	48.10	20197-9		+
-25.35	48 22	20293.9		
.30:30	48.46			
		RECOVERY:		
		0 min 24 35'	60 min. 18.56	-
		20 min. 22.25'	90 min, 17,28	
		10 min. 20.88	332.11 27729	
NOTEC		45 min. 19.55		
NOTES:				
				-
				_
	D-11-11-11-11-11-11-11-11-11-11-11-11-11			
itanding Level A	iter Testing:			
INAL TEST RE	SULTS: Produced	150 GPM for 24 hours on (de	nte) _11/20/85	
	Sandy Swarthoff, a			

CITY OF PISMO BEACH, CALIFORNIA Public Services Department

Planning Department
Building Department
Engineering Department
Public Works Department
Parks and Recreation Department



CITY HALL 1000 BELLO ST. • P.O. BOX 3 PISMO BEACH, CALIFORNIA 93449 TELEPHONE 805/773/4656 805/773/4658

MEMORANDUM

TO:

DIRECTOR OF PUBLIC SERVICES

FROM:

CITY ENGINEER

SUBJECT:

PRICE CANYON WELL AND AQUIFER

DATE:

JANUARY 20, 1989

The Price Canyon aquifer is estimated to produce 700 a.f. per year when it is fully developed. The water will need to be treated more extensively and more expensively than the water in Wells #9 and #10. The quality should then be better than State Project Water and less expensive.

Before the treatment is designed, it was recommended that the old water in the aquifer be pumped out so that the better quality creek water can recharge the aquifer. Then the water from the recharged aquifer would be thoroughly tested before the treatment plant is designed. One well and pump have been installed for the purpose of pumping out the aquifer.

The water smells pretty bad from Hydrogen Sulfide. It is so bad it might even pollute Pismo Creek. I have requested Pat Mills to install sprinklers in the discharge pipe to aerate the water and remove the sulfide. In my absence, I would appreciate your expediting the installation of the sprinklers so that we can move forward to prove up or abandon this water source.

HAL HALLDIN

City Engineer

pcwa

Well #8 City of Pismo Beach

	POWER READINGS	KW	PG&E COST	MG PUMPED
01-Jun-89	832	*1404	* \$166.43	4,914,000
01-Jul-89	2236	1006	\$116.67	3,521,000
01-Aug-89	3242	538	\$65.19	1,883,000
01-Sep-89	4036	206	\$37.26	990,500
01-0ct-89	4434	371	\$43.95	1,298,5000
01-Nov-89	4434	0	\$5.00	0

Well #8 City of Pismo Beach

	POWER READINGS	KW	PG&E	COST	MG	PUMPED
01-Jun-89	832	*1404	* \$1	66.43		4,914,000
01-Jul-89	2236	1006	\$1	16.67		3,521,000
01-Aug-89	3242	538	\$	65.19		1,883,000
01-Sep-89	4036	206	\$	37.26		990,500
01-Oct-89	4434	371	\$	43.95	1	1,298,5000
01-Nov-89	4434	0	\$	5.00	_	12.6 mb or 38 Ac. Ft.

one you send use substantial use prior to June 89?

Well

File the Conjon Will #50 "

TO THE RESERVE AND ADMINISTRATION OF THE PROPERTY OF THE PROPE		
Pump Te st Report		12/3/85
/SSAGE	-	
Dear Mr. Cleating		A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
We have enlosed a copy of the test	report from	Miller Pump Co. on the well
we recentley drilled for you.		
		2
	100	
		· · · · · · · · · · · · · · · · · · ·
		
٥	FROM	
City of Pismo Beach P.O. Box 3		MYERS BROTHERS, INC.
Pismo Beach, Ca. 93449		8650 East Lacey Boulevard Hanford, California 93230
		rantoral Cantorna on 20

SIGNED Frank Gonsalves

SANITATION AND OPERATION CONSULTANTS THI

31133 W.VIA COLIMAS-ST-101 WESTLAKE VILLAGE, CA. 91362 (213)355-4256

CITY OF PISMO BEACH SAMPLE TYPE-PISMO ADOBE WELL WATER DATE SAMPLED-1/31/85 DATE REPORTED-2/19/85 LCG HO. -881-1-8942

LAB AMALYSIS

COMBILITENT	GUSHITITY		MAXIMUM LIMIT
IRON-	21.	MG/L	See .
MAGNESIUM-	116.1	MOR'L) Hims
SULFIDE-	1.91	MGZL	Selection (Selection)

MAR 18 1985 CITY OF PISMO BEACH PUBLIC SERVICES

I DECLARE UNDER PENALTY OF PERJURY, THAT THE FOREGOING IS TRUE AND ACCURATE,

THVOICE NO. 3217 1.17. DATED 2/19/85

A TOTAL OPERATION SERVICES CORPORATION

SANITATION : ID OPERATION

DMSULTAMTS INC

31133 W.VIA COLINAS-ST-101 WESTLAKE VILLAGE, CA. 91362 (213)889-4256

CITY OF PISMO BEACH
SAMPLE TYPE-PISMO ADOBE WELL
DATE SAMPLED-2747855
DATE REPORTED-3/12/85
LOG NO.-801-1-8951

LAB ANALYSIS

CONSTITUENT QUANTITY MAXIMUM LIMIT
OIL&GREASE- 1.8 MG/L T.O.C. 22 MG/L -

I DECLARE UNDER PENALTY OF PERJURY) THAT THE FOREGOING IS TRUE AND ACCURATE.

AB DIVISION

INVOICE NO. 3234 INV. DATED 3/15/85

A TOTAL OPERATION SERVICES CORPORATION

Submitted By:

Central Coast Analytical Services

CENTRAL COAST ANALYTICAL SERVICES

Air, Water & Hazardous Waste Analysis 141 Suburban Road, Suite C-4 San Luis Obispo, California 93401 (805) 543-2553 COLLECTED : 8-4519

COLLECTED : 11/21/85

RECEIVED : 11/21/85

REPORTED : 01/29/86

P.O. NUMBER : Verbal

SAMPLE DESCRIPTION:

Test Well Site No. 8 Price Canyon

City of Pismo Beach 1000 Bello St. Pismo Beach, CA 93449

Collected by: Tim Cleath

GENERAL MINERAL WATER ANALYSIS

CONSTITUENT	MILLIC	RAMS/LITER	CONSTITUENT		UNITS
CALCIUM (Ca)		110.	рH		7.3
MAGNESIUM (Mg)	2	100.	CONDUCTANCE (micromhos)		2600.
SODIUM (Na)		330.	SOLIDS, TOTAL DISSOLVED (mg/l)		1800.
ALKALINITY			HARDNESS, TOTAL (CaCO3, mg/l)	-	700.
Bicarbonate (HCO3)	.31 .	950.	or (grains per gallon)		40.9
Carbonate (CO3)		none	IRON (mg/I Fe)	-	0.28
Hydroxide (OH)		none	MANGANESE (mg/l) Mn)		0.25
Total	25 <u>-</u>	950.	COPPER (Cu, mg/l)		<0.04
CHLORIDE (CI)		190.	ZINC (Zn, mg/l)		<0.04
SULFATE (SO4)		230.	FOAMING AGENT (MBAS), mg/l)	8	<0.04
NITRATE NITROGEN		<0.1	V		
NITRATE (NO3)		<0.4	GENERAL PHYSICAL		
FLUORIDE (F)	•	1.7			
ma // milligrams nor liter		+•/	COLOR	•	15.
mg/I = milligrams per liter			ODOR	-	>8.
			TURBIDITY		1:

COMMENTS: (Reference limits Title 22, California Admin. Code 1977, Domestic Water)

X	Checklist	for	reference	levels	enclosed.	

____ All constituents analyzed were within the acceptable limits.

Evaluation of above report was not done.

X Constituents outside limits were:

Manganese, 1

Manganese, total mineral, odor

X Suggestions for improving the quality of this water:

X Aeration
 X Chlorination
 When nitrate is elevated suggest bacteria test.
 X Reverse osmosis reduces total mineral.

X Filtration X Discuss problems with water conditioning consultant.

X Softening ____ Quality appears adequate.

Please contact us if further clarification is desired on this report. Medical questions should be directed to a physician.

Medical questions should be directed to a physicia

Encl: Invoice # MH/js

cc: Tim Cleath

Respectfully submitted,

CENTRAL COAST ANALYTICAL SERVICES

Mary Heylicak Ph D

Mary Havlicek, Ph.D., President

CERTIFIED WATER LABORATORY-STATE OF CALIF. DEPT. PUBLIC HEALTH-CHEMISTRY-BACTERIOLOGY

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Central Coast Analytical Services

CENTRAL COAST ANALYTICAL SERVICES

Air, Water & Hazardous Waste Analysis 141 Suburban Road, Suite C-4 San Luis Obispo, California 93401 (805) 543-2553 COLLECTED B-4519
COLLECTED 11/21/85
RECEIVED 11/21/85
REPORTED 01/28/86
P.O. NUMBER Verbal

SAMPLE DESCRIPTION:

Test Well/Site #8

Collected by: Tim Cleath

Submitted By:

City of Pismo Beach 1000 Bello St. Pismo Beach, CA 93449

REPORT

CONSTITUENT	REPORTED AS		LEVEL FOUND
ALUMINUM	A1	-	
ARSENIC	As	=	<0.01
BARIUM	Ba		0.3
BERYLLIUM	Ве	-	
CADMIUM	Cd	-	<0.001
CHROMIUM, TOTAL	Cr	-	<0.005
CHROMIUM, HEXAVALENT	Cr(VI)	-	
COBALT	Co	-	
COPPER	Cu	=	
LEAD	Pb	_	<0.005
MERCURY	Hg	-	<0.0002
MOLYBDENUM	Mo	=	
NICKEL	Ni	-	
SELENIUM	Se	_	<0.005
SILVER	Ag	_	<0.01
THALLIUM	T1	-	
VANADIUM	V		
ZINC	Zn	-	
		-	(6)

(<)-means less than and this is the detection limit as applied to this analysis.

Encl: Invoice # 10512

MH/mlo'

Respectfully submitted,

CENTRAL COAST ANALYTICAL SERVICES

By May Malecik

Mary Hav Vicek, Ph.D., President

CERTIFIED WATER LABORATORY BY THE DEPARTMENT OF PUBLIC HEALTH FOR COMPLETE CHEMICAL AND BACTERIOLOGY

CHECKLIST: WATER ANALYSIS # B-4519

MCL refers to Maximum Contaminant Level as given in Title 22, Domestic Water Quality Standards, California Administrative Code 1977. The full text can be reviewed in our library. Only those constituents listed under 'Inorganic Chemicals' have potential toxic effects when above MCL. All of the other constituents (when above the MCL) may contribute some unacceptable characteristic to the majority of users. NL means 'not listed', in other words no MCL was given in reference, so any level would be acceptable. Space is blank if test was not done.

GENERAL MINERAL	MCL mq/l	LEVEL FO		MCL mg/l	LEVEL below	10 000 000 000 000 000 000 000 000 000
Calcium	NL	o k	Fluoride	1.8	×	
Magnesium	NL	ok	Nitrata Nitrogen	10.	~	
Sodium	NL	ok	Nitrate (NO3)	45.	\(\)	
Alkalinity	NL	ok	Arsenic	0.05	->	- 1
Iron	0,3	X	Barium	1,0	×	
Manganese	0.05	×	Cadmium	0.010	X	
Copper	1,0	X	Chromium	0,05	V	
Zinc	5,0	×	Lead	0,05	-	
MBAS	0,5	Χ.	Mercury	0.002	×	
		740	Selenium	0.01	×	
GENERAL PHYSICAL	units		Silver	0.05	×	
Color	15.	*_				×
Odor	3,	>	*0			
Turbidity	5.	×	<u> </u>			
MINERALIZATION Conductance, micr Dissolved Solids, Chloride, mg/l		Recomme:	(1600) (1000) (500)	rt Term _(2200) _(1500) _(600)	Abov	/B

REMARKS :

(grains per gallon)

Ming the st

(up to 6)

Central Coast Analytical Services

CENTRAL COAST ANALYTICAL SERVICES

Air, Water & Hazardous Waste Analysis 141 Suburban Road, Suite C-4 San Luis Obispo, California 93401 (805) 543-2553 COLLECTED : 3/04/85
RECEIVED : 3/05/85
REPORTED : 5/20/85
P.O. NUMBER : Verbal

Submitted By:

City of Pismo Beach 1000 Bello Ave. Pismo Beach, CA 93449 SAMPLE DESCRIPTION:

Surface Water from Pismo Creek Sampled by: Tim Cleath

GENERAL MINERAL WATER ANALYSIS

CONSTITUENT	MILLIGRAMS/LITER	CONSTITUENT		UNITS
CALCIUM (Ca)	- 83.	pH		8.3
MAGNESIUM (Mg)	- 60.	CONDUCTANCE (micromhos)		1100.
SODIUM (Na)	- 86.	SOLIDS, TOTAL DISSOLVED (mg/l)		770.
ALKALINITY		HARDNESS, TOTAL (CaCO3, mg/l)		540.
Bicarbonate (HCO3)	- 420.	or (grains per gallon)		31.6
Carbonate (CO3)	- none	IRON (mg/I Fe)		0.11
Hydroxide (OH)	- none	MANGANESE (mg/l) Mn)		0.07
Total	- 420.	COPPER (Cu, mg/l)	_	<0.04
CHLORIDE (CI)	. 80.	ZINC (Zn, mg/l)		<0.04
SULFATE (SO4)	- 115.	FOAMING AGENT (MBAS), mg/l)		0.06
NITRATE NITROGEN	. <1.			0.00
NITRATE (NO3)	- <4.	GENERAL PHYSICAL		
FLUORIDE (F)	. 0.5			98250.22 F
mg/l = milligrams per liter		COLOR		15.
mg/ mmgrams por mor		ODOR		3.
		TURBIDITY	•	1.0

COMMENTS: (Reference limits Title 22, California Admin. Code 1977, Domestic Water)

X	Checklist for	or reference l	evels enc	losed.

All constituents analyzed were within the acceptable limits.

____ Evaluation of above report was not done.

X Constituents outside limits were: MANGANESE

X Suggestions for improving the quality of this water:

X Aeration When nitrate is elevated suggest bacteria test.

X Chlorination X Reverse osmosis reduces total mineral.

X Filtration X Discuss problems with water conditioning consultant.

X Softening — Quality appears adequate.

Please contact us if further clarification is desired on this report.

Medical questions should be directed to a physician.

Encl: Invoice # 8771 MH/dm Respectfully submitted,

CENTRAL COAST ANALYTICAL SERVICES

By Thy Havery

Mary Havlicek, Ph.D., President CERTIFIED WATER LABORATORY—STATE OF CALIF. DEPT. PUBLIC HEALTH-CHEMISTRY-BACTERIOLOGY

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Central Coast Analytical Services

CENTRAL ANALYTICAL SERVICES

Air, Water & Hazardous Waste Analysis 141 Suburban Road, Suite C-4 San Luis Obispo, California 93401 (805) 543-2553

Submitted By:

City of Pismo Beach 1000 Bello Ave. Pismo Beach, CA 93449

B-0572 LAB NUMBER COLLECTED 3/04/85 3/05/85 RECEIVED 5/20/85 REPORTED Verbal P.O. NUMBER

SAMPLE DESCRIPTION: Surface Water from Pismo Creek

Sampled by: Tim Cleath

REPORT

CONSTITUENT	REPORTED AS		LEVEL FOUND
ALUMINUM	A1	_	
ARSENIC	As	-	<0.01
BARIUM	Ba	-	0.2
BERYLLIUM	Be	-	
CADMIUM	Cd	-	<0.005
CHROMIUM, TOTAL	Cr	(***)	<0.005
CHROMIUM, HEXAVALENT	Cr(VI)	-	
COBALT	Co		
COPPER	Cu	-	
LEAD	Pb	-	<0.006
MERCURY	Hg	-	<0.0002
MOLYBDENUM	Mo		~
NICKEL	Ni	-	
SELENIUM	Se	3(—)	<0.005
SILVER	Ag	-	<0.01
THALLIUM	T1	-	
VANADIUM	V	-	
ZINC	Zn	-	
8		· -	

(<)-means less than and this is the detection limit as applied to this analysis.

Encl: Invoice # 8771 MH/dm

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Mary Havlice, Ph.D., President

CERTIFIED WATER LABORATORY BY THE DEPARTMENT OF PUBLIC HEALTH FOR COMPLETE CHEMICAL AND BACTERIOLOGY

- UB W

CEN' L COAST ANALYTICAL SERVI

CHECKLIST:

WATER ANALYSIS #B-0572

MCL refers to Maximum Contaminant Level as given in Title 22, Domestic Water Quality Standards, California Administrative Code 1977. The full text can be reviewed in our library. Only those constituents listed under 'Inorganic Chemicals' have potential toxic effects when above MCL. All of the other constituents (when above the MCL) may contribute some unacceptable characteristic to the majority of users. NL means 'not listed', in other words no MCL was given in reference, so any level would be acceptable. Space is blank if test was not done.

ENERAL MINERAL	MCL mg/l	LEVEL F		INORGANIC	CHEMICALS	MCL mg/l	LEVEL below	
Calcium	NL.	l ok		Fluoride	ag 8	1.8	·	
Magnesium	NL	ok		Nitrata Ni	trocen	10.	У.	
odium	NL	ok		Nitrate (N	the Real Property lies and the last of the	45.	×	
lkalinity	NL	ok		Arsenic		0,05	*	
ron	0,3	X		Barium		1,0	7	
anganese)	0.05		V	Cadmium		0,010		
opper	1,0	X		Chromium		0.05	× ·	
inc	5.0	×		Lead		0,05	Y	
IBAS	0,5	X		Mercury		0.002	Y	
GENERAL PHYSICAL Color Odor Turbidity	15. 3. 5.	×		Selenium Silver		0.01		
MINERALIZATION Conductance, mic Dissolved Solids Chloride, mg/l		Recomm mg/l	contamended (900) (500) (250)	Upper X(1600 Y(500) (500)		ct Term _(2200) _(1500) _(600)	Abo	vs

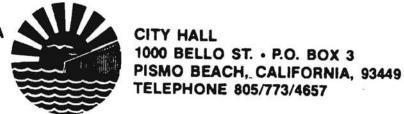
HARDNESS is due primarily to calcium and magnesium. When water is 'softened' sodium replaces both elements. Persons on low-sodium diets may want to avoid soft water; also, plants do better with hard water. Hard water tends to increase scale formation and subsequent heat loss in boilers and water heaters. Soft water may decrease laundry costs and it may also be more corrosive.

ater may decrease la	aundry costs and i	t may also be more		* *L
Hardness on this s	sample: soft	(up to 100mg/l)	moderately .	<u> </u>
			hard(100-200)	hard(over200
(grains per gal	llon)(up	to 6)	(6-12)	(over 12)

REMARKS:

Mary Harlied

CITY OF PISMO BEACH, CALIFORNIA



November 27, 1985

Neal C. Rothsberger District Land Supervisor Pacific Gas & Electric Company 408 Higuera, Box 592 San Luis Obispo, CA 93408

Dear Neal:

The enclosed permit and idemnity agreement were reviewed with the well drilling contractor who said he was unable to provide the insurance required by the agreement. As a result, the desired test wells on your property were not drilled.

Thank you very much for your assistance in this matter.

Very truly yours,

Hal A. Halldin City Engineer

HAH/Lrs

Enclosures

Art Shaw Would appreciate your review of this agreement. Don't think we will use though. Hext time they want something from us we should place the same requirements on them!

AND

INDEMNITY AGREEMENT

City of Pismo Beach, hereinafter called Permittee, assumes all risk and liability for drilling and immediately refilling two test wells at the locations shown in red on the attached drawing on the parcel SBE 135-40-25B (Parcels 1 and 2) located in Pismo Beach, owned and operated by Pacific Gas and Electric Company, a California corporation, hereinafter called PGandE, who gives its permission as an accommodation to a request made by Permittee.

Permittee shall indemnify and hold PGandE harmless, including its officers, agents and employees from loss, claims, liability, damages (including damages to PGandE's property and personal injury or death, including the City of Pismo Beach, its Contractors, or PGandE, its agents and employees) arising out of Permittee's drilling or other activities pursuant to ground water monitoring.

Permittee's contractors shall maintain during the performance hereof, Comprehensive General Liability and Comprehensive Automobile Liability of not less than \$2,000,000 combined single limit or equivalent for bodily injury, personal injury and property damage as the result of any one occurrence.

Comprehensive General Liability shall include coverage for Premises - Operations, Owners and Contractors Protective, Products/Completed Operations Hazard, Contractual Liability, and Broad Form Property Damage including Completed Operations. Comprehensive Automobile Liability shall include coverage for Owned, Hired, and Non-Owned automobiles.

Such insurance shall include, by endorsement to the policy(ies), PGandE as an additional insured insofar as any liability arising out of the permit by the Permittee with PGandE is concerned, contain a severability of interest clause, provide that PGandE shall not by reason of its inclusion as an additional insured incur liability to the insurance carrier for payment of premium for such insurance, and provide 30-days' written notice to PGandE prior to cancellation, termination, alternation or material change of such insurance.

Evidence of coverage described above shall state that coverage provided is primary and is not excess or contributing with any insurance or self-insurance maintained by PGandE.

PGandE shall have the right to inspect or obtain a copy of the original policy(ies) of insurance.

Permittee shall furnish the required certificates and endorsements to PGandE prior to commencing performance hereof.

Permittee shall contact PGandE's facility manager (R. Large) at 773-4284 and USA (Underground Service Alert at (408) 642-2444 at least 48 hours in advance of the drilling operation to determine exact drilling locations.

All insurance certificates, endorsements, cancellations, terminations, alternations and material changes of such insurance shall be issued and submitted to the following:

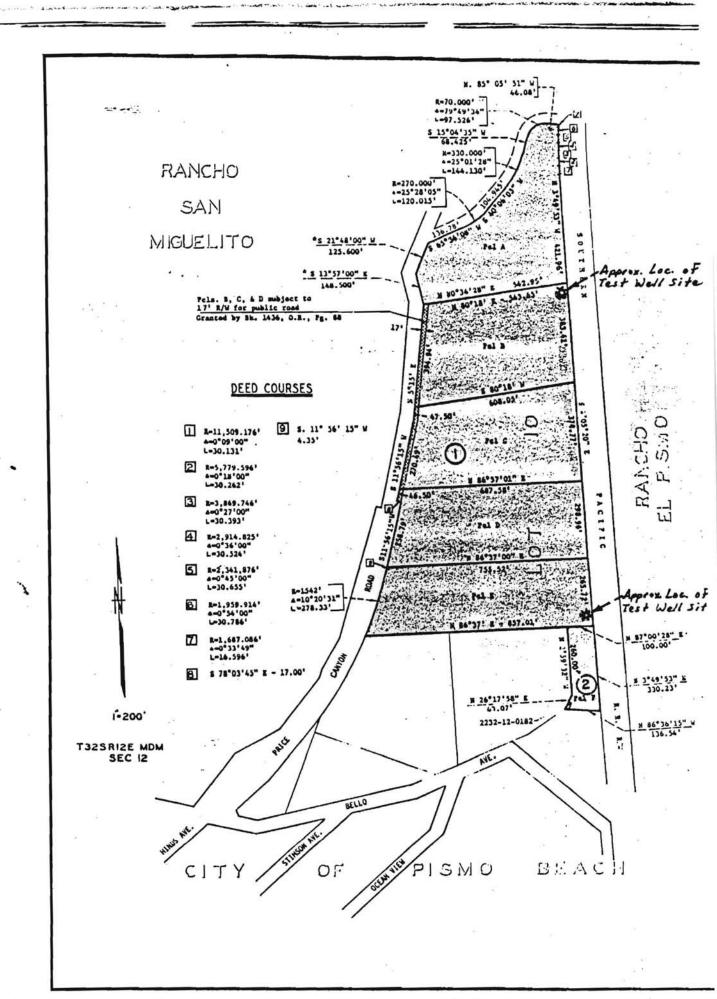
PACIFIC GAS AND ELECTRIC COMPANY Attention: Manager of Insurance 77 Beale Street, Room E-280 San Francisco, Calif. 94106

PACIFIC GAS AND ELECTRIC COMPANY Attention: Regional Land Supervisor 111 Almaden Blvd., Rm 804 San Jose, Calif. 95115

Permittee agrees to share all findings, reports and analysis, arising out of the drilling conducted on PGandE's property.

PGandE reserves the right to revoke this permission with or without cause and the permit may be superseded by other documents in a form satisfactory to PGandE, to be issued by Mission Trail Region Land Department, to provide for Permittees access to the wells. The parties also agree that this indemnity shall remain in affect notwithstanding the expiration or termination of this permission.

45511	and the state of t
L. E. ENGLUND	CITY OF PISMO BEACH
Regional Land Supervisor Pacific Gas and Electric Co.	Mayor
9-19-85	ein .
Date	Date



PACIFIC GAS AND ELECTRIC COMPANY

PGSE

+

406 HIGUERA . BOX 592 . SAN LUIS OBISPO, CALIFORNIA 93406 . (805) 544-3334

D. L. KENNADY

653.8

October 7, 1985

OCT 09 1985

CITY OF PISMO BEACH

PUBLIC SERVICES

Mr. Hal Halldin City of Pismo Beach P. O. Box 3 1000 Bello Street Pismo Beach, CA 93449

RE: Test Wells in Price Canyon

Dear Mr. Halldin:

Attached are three copies of the Permit and Indemnity Agreement for the abovementioned project. Please have the proper official sign the permit and return the two copies marked "PG&E Co. Copy" in the enclosed envelope. Please send a copy of an insurance certificate with the executed permit.

If you have any questions, please call Mr. Wayne Yamagiwa at 544-3334, extension 436.

Sincerely,

NEAL O. ROTLISBERGER District Land Supervisor

Attachments

Miller Drilling Co. Contractors License No. 324634

BOB MILLER (805) 434-1868

Hanford, Calif. 93230 Perf Rec:
TIME PUMPING LEVEL WATER CONDITION BOWLS GPN 8.51
TIME PUMPING LEVEL WATER CONDITION BOWLE GPN 8.51
8.51
8.56 29.1" 150 9.01 30.57" clear 150 9.06 31.68" " 9.11 32.54" " 9.31 19.14" " 9.26 34.67" clear " 9.45 36.60" " 10.02 37.83" " 10.32 39.40" " 11.02 40.29" " 11.42 41.10" " 12.12 increase 20 200 qpm 12.12 increase 20 200 qpm 12.13 48.57" 200 12.28 49.29" " 12.43 50.14" " 13.59 50.75" "
9.01 30.57" clear 150 9.06 31.68" " 9.11 32.54" " 9.31 19.14" " 9.26 34.67" clear " 10.02 37.87" " 11.02 40.29" " 11.42 41.10" " 12.12 increase 20 200 qpe 12.17 47.74" 200 13.23 48.57" 200 12.28 49.29" " 12.41 50.14" " 13.68 50.75" "
9.06 31'68" " 9.11 32'54" " 9.21 39.'14" " 9.26 34'67" clear " 9.45 36'60" " 10.02 37'87" " 10.32 39'40" " 11.02 40'29" " 11.42 41'10" " 13.03 pm 41'36" " 12.12 increase 20 200 qpm " 12.12 17 47'74" 200 12.28 49'29" " 12.43 50'14" "
9.11 32'54" " 9.31 19.'14" " 9.26 34'67" clear 9.45 36'60" " 10.02 37'83" " 10.32 39'40" " 11.02 40'29" " 11.42 41'10" " 12.12 increase 20 200 qpm 12.17 47'74" 200 13.23 48'57" 200 12.28 49'29" " 12.41 50'14" " 13.58
9.31
9.26
9.45 36'60" 10.02 37'87" 10.32 39'40" 11.02 40'29" 11.42 41'10" 12.03 pm 41'36" 12.12 increase 20 200 qpm 200 12.17 47'74" 12.28 49'29" 12.43 50'14" 13.59 50'75"
10.02
10.32 39'40" 11.02 40'29" 11.42 41'10" 12.03 PM 41'36" 12.12 increase 20 200 gpm 12.12 48'57" 12.28 49'29" 12.43 50'14" 13.59 50'75"
11.02 40'29" " 11.42 41'10" " 12.03 Pm 41'36" " 12.12 increase 20 200 qpm 12.17 47'74" 200 12.28 49'29" " 12.43 50'14" " 13.58 50'75" "
11 A2
12.02 Pm
12.12 increase 20 200 gpm 200 12.17 47'74" 200 13.33 48'57" 200 12.28 49'29" " 12.43 50'14" 4 13.59 50'75" -
12.17 47'74" 200 13.33 48'57" 300 12.28 49'29" " 12.43 50'14" " 13.59 50'75" "
13.23 48'57" 200 12.28 49'29" " 12.43 50'14" " 13.59 50'75" "
12.43 49'29" " 12.43 50'14" " 13.58 50'75" "
12.43 50'14" " 12.58 50'75" "
13.58 50'75"
14-50
1.18
1.38 51.73"
1.58 52'25"
2.13 increase to 250 gpm , pumped alot of air, slowed
OTES:

Miler Drilling CC Contractors License No. 324834

ing Addres	8650 Lacey Blvd.		Well Dep	th:
-	Hamford, Calif.	Teeting Metho	od: Submerible	
	nantord, Carri.	Peri Rec:		
nding Leve	l Belore Testing:			
		TESTING	WATER OVER	
TIME	PUMPING LEVEL	WATER CONDITION	WATER OVER	QPM
2.30	55'72"			211
-45	56'01"			211
3.00	56' 28"			210.5
3.15	56'36"			209.5
1_30	56'64"			209_
-50	56'85"			207 ·
.10	57'11"			207
.30	57'35"	shut down		207
			t	
- 34				222
		338		
TES:				+
ding Level	After Testing:			
AL TEST R	ESULTS: Produced	_ GPM for hours on (dat	11/19/85	

Miller Drilling Co. Contractors License No. 324634

Well Owner:	City of Pismo Bea		Pump Size:				_
Annay Accion			Testing Metho		- 5	h: 70 b	Cusy
							-
			Peri Rec:				-
standing Level	Before Testing: 12.	.25					
		TESTIN	G	- W171	P OURS		_
TIME	PUMPING LEVEL	WATER C	MOITION	BC	R OVER	OPM	_
8.25		start pump					
8.30	11.11					150	_
8.45	34.78	clear				•	-
8,00	37.32			_		•	
9155	38.69						_
9.35	40.26	olear	_				_ `
9.45	40.83						_
10.05	41.53						-
10.25	42-21			-	-		-
10.55;34	42,90	183855				 -	
11.25:39	43.37	184321					-0
11.55.36	43.53	184770		_		<u> </u>	-
13.35.38	43.83	185222				_ •	_
12.55:33	43.98	185683					_
1.25,31	44.15	186139		-			
1.55+36	44.25	186507		_			_
2.25132	44.45	187039					-
2:55:37	44.55 Increase	187487	11-11-11-1	+			-
3.25.31	45.36	187944					- 0
3.55137	45.53	188397				•	-
4,25,39	45.70	188849		-			-
4.55.39	45.74	189307	_				-
5.25:33	45.75	189761		+		м	-
5.55:40	45,88	190218		-			+
6.25:36	46.14	190677					-
NOTES:							_
Annual Control of the			according to the				_
							- 5
							_
landing Level A	After Testing:						
INAL TEST RE	SULTS: Produced	GPM for	_ hours on (dat	e) _ 11/2	20/85		-:
eel Run By:							_
	Marin						

501- N. Main St. Templeton, CA 9345

CC:

Miller Drilling Cc

(805) 434-1884

TIME PU 5.55:40 2.25:36 7.55:40 2.25:37 3.55:50 3.25:48 3.55:30	Testing: 12. MPING LEVEL 46,27 46.40 46.47 46.52 46.64	Peri Rec:	WATER OVER	GPM 150 150
TIME PU 5.55;40 7.25;16 7.55;40 7.25;16 7.55;40 7.25;17 7.55;50 7.55;50 7.55;50	MPING LEVEL 46, 27 46, 40 46, 47 46, 52	TESTING WATER CONDITION 191140 191607 192076	WATER OVER	150
TIME PU 5.55:40 9.25:36 9.55:40 9.25:37 9.55:50 9.25:48 9.55:30	MPING LEVEL 46, 27 46, 40 46, 47 46, 52	TESTING WATER CONDITION 191140 191607 192076	WATER OVER BOWLS	150
2.55;40 2.25;36 2.55;40 2.25;37 2.55;50 2.25;30	46, 27 46, 40 46, 47 46, 52	WATER CONDITION 191140 191607 192076 192257	WATER OVER BOWLS	150
2.55;40 2.25;36 2.55;40 2.25;37 2.55;50 2.25;30	46, 27 46, 40 46, 47 46, 52	191140 191607 192076 192257	BOWLS	150
7.25:36 7.35:40 9.25:37 9.25:50 9.25:48 9.55:30	46.40 46.47 46.52 46.64	191607 192076 192257		
7.55.40 3.25.37 3.55.50 3.25.48 3.55.30	46.47 46.52 46.64	1920 76 192257		150-
3.25,37 3.55150 3.25,48 3.55130	46.52 46.64	192257		
3.55±50 3.25±49 3.55±30	46.64			_
). 55: 30				•
. 55: 30	46 71	193022 19347.5		-
	46.75			
0,62139		19395.2		•
	46.80	19445.5 19491.3		
	46.85 46.87	19540.0		•
	47.0			-:
		19584.2		
Section Section 1	47.05 47.16	196313		
	47.35	The second secon		•
	47.60	19837.6		
	97.50			
-25	48.0	20122.6		•
783730		20132.6		•
	48.10	20197_9		•
	48.22 48.46	20293.9		
.30130				
		ECOVERY:	60 min. 18.56	
	24 - 0 0 - 0 0 1 - 0 1	0 min. 24.35'	90 min. 17.28	
		0 min. 20.88		
NOTES:		5 min. 19.55		

SELECTION,

WELL #8

THE RESOURCES AGENCY

WATER WELL DRILLERS REPORT

No. 174228

Local-Permit No. or Date	ATER WELL D	State Well No
(1) OWNER: NameCity of Piano Bea	ah	(12) WELL LOG: Total 1.75
Address P.O. Box 3	ru.	1 ocas depth. H. Depth of completed well is R.
City Pisso Beach, Ca.	zi9 344 9	from ft. to ft. Formation (Describe by color, character, size or majoral). O -2 topsoil
		2 -10 silt
(2) LOCATION OF WELL (See instruction	15):	to -34 fine sand
County Owner's Wei	Number_ "	39 -62 coarse sand
725 - 176	Section 13 H	62 -70 sand stone
Distance from cities, roads, railroads, fences, etc. 200 M		70 -75 shale
Highland Dr. and i mile Hor	th of Hwy 101	
South of Pisma Creek 1001		
N (3	TYPE OF WORK	
	w Well Deepening	
And the second s	econstruction	
	conditioning A	\(\tau_{\text{\colored}}\) \(\text{\colored}\) \(\text{\colored}\
	orizontal Well	
	Consideration and the constant of the constant	
de .	estruction [] (Describe estruction materials and postdures in Item 12)	N N N N N N N N N N N N N N N N N N N
) PROPOSED USE	
A Control of the Cont	meetic 5	
- Line	rigation [The Control of the Co
Hickory 101	dustrial	
L C	tet Well	
•		
270		12 12 1
	unicipal 📓	
	cx Monterey Send	
· · ·	F 1 10	- CRAYET CHIEFE
	Size O DY 12	0 33' 2"FVC
` 7/	75	33 N W
		35 4
(7) CASING INSTALLED, (8) PERFORATI		- os seren
Steel Plastic Conceste Type of perforatio	n or size of screen	- 5 plant
From To Dia. Gage or From	To Slot	
ft. ft. in. Wall ft.	ft. size	· · · · · · · · · · · · · · · · · · ·
46 13 110 Viene 33	68 .050	-
200		- 17 N O
		25 U
(9) WELL SEAL:		
	yes, to depth 30ft.	
Were strata sealed against pollution? Yes No Method of sealing Comment 2 yards	Intervalft.	-10-31 - Work started. 1985 Completed 1
(10) WATER LEVELS:		Well Driller's STATEMENT:
Depth of first water, if known	ft.	
Standing level after well completion		This well sees drilled under my jurisdiction and this report is true to the best of my knowledge and belief
(11) WELL TESTS:	hama Miller	SIGNED SIGNAL VIZ
Was well test made? Yes ② No ☐ If yes, by w Type of test Pump ☑ Bailer ☐	hom?Air_lift [(Well Driller)
	t end of testft	NAME Myers Brothers Inc. (Person, firm, or corporation) (Typed or printed)
	Water temperature	Address 8650 E Lacey Blvd.
Chemical analysis made? Yes No If yes, by w	ACT BUTTON ACT	City Hanford, CA. 93230 Zip
Was electric log made? Yes Now If yes, attach		License No. 280310 Date of this report 11-6-85

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED. USE NEXT CONSECUTIVELY NUMBERED FORM

Myers, Rold & Hauser

501 N. Main St. Templeton, CA 93465

Aller Drilling Co. Contractors License No. 324634

#OB MILLER (805) 434-1888

 4	PUMP	TEST	REPORT

ling Address:	• Myers Brothers	Pump S	Sixe:	Vell Depth: _ 70' x 8
31	8650 Lacey Blvd.			
	Hanford, Calif. 93	230	Method: Submeribl	
		Peri Re	c:	
inding Level	Before Testing:11	1.96"		
		TESTING	WATER C	VER
TIME	PUMPING LEVEL	WATER CONDITIO	N BOWL	S GPM
8.51		start pump		
8-56	29.1"			150
9.01	30'57"	clear		150
9.06	31,68,			•
9.11	32'54"			
9.31	39,'14"			
9.26	34'67"	clear		
9.45	36'60"			
10.02	37'87"			
10.32	39'40"			
11.02	40'29"			
11.42	41'10"			-
12.03 pm	41.136"			
2.12		increase 20 200 qpm		
12.17	47'74"			200
3/33	48'57"			200
12,28	49'29"			
12.43	50'14"			
12.50	50'75"			
1.18	51'26"			
1.38	51'73"			
1 5A	52!25"			
2.13	52143"	increase to 250 gp	, pumped alot of	f air, slowed to 2
	32 47			
OTES:				
nding Level A	iter Testing:			
AL TEST RES	SULTS: Produced	GPM for hours	on (date)11/19/	/85
			runcialitati de este d	
Run By:				

808 MILLES (805) 434-1881

B650 Lacey Blvd. Hanford, Calif.			Pump Size: 4" Well Depth: 70 Testing Method: Submerible		
		Peri Rec:	Peri Rec:		
inding Leve	l Before Testing:				
	T	TESTING	WATER OVER		
TIME	PUMPING LEVEL	WATER CONDITION	BOWLS	GPM	
2.30	55'72"			211	
2.45	56'01"			211	
3.00	56'28*			210.5	
3.15	56'36"			209.5	
330	56'64"			209.	
3.50	56'85"			207	
4,10	57'11"		-	207	
	57'35"	shut down		207	
(8)					
_					
10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-				<u> </u>	
		2			
OTES:					
			*		
		-			
	After Testing:				
AL TEST R	ESULTS: Produced	_ GPM for hours on (date)	11/19/85		

501 N. Main St. Templeton, CA 93465

Lailler Drilling Co. Contractors License No. 324634

BOB MILLER (805) 434-1888

~.* ~.* ...

	City of Pismo Beach		Pump Set:63.'			
illing Address:	Myers Brothers		Pump Size:	4" Well	Depth: 70' 8"	
			Testing Method	d: _submerible		
			Peri Rec:			
landing Level	Before Testing: 12.	25				
		TESTINO	3			
TIME	PUMPING LEVEL	WATER CON		WATER OVER	GPM	
8.25		start pump				
8.30	31.11				150	
8.45	34.78	clear				
9000	37.32					
9135	38.69					
9.35	40.26	olear				
9.45	40.83					
10.05	41.53					
10.25	42.21					
10.55;34	42:90	183855				
11.25;39	43.37	184321				
11.55.36	43.53	184770				
12.25.38	43.83	185222			A#5)	
12.55:33	43.98	185683			(#)	
1.25:31	44.15	186138				
1.55.76	44.25	186507			-	
2.25:32	44.45	187039				
2:55:37	44.55 increase	187487				
3.25.31	45.36	187944				
3.55:37	45.53		•			
4.25:39	45.70	188849			•	
4.55:39	45.74	189307				
5.25:33	45.75	189761			-	
5.55:40	45.88	190218				
	46.14	CANADA DE LA CANADA DEL CANADA DE LA CANADA DEL CANADA DE LA CANADA DELA CANADA DE LA CANADA DE LA CANADA DE LA CANADA DE LA CANADA DEL				
6.25:36	40.14	190677				

to up in the fine the in on the

PACIFIC GAS AND ELECTRIC COMPANY

PGWE

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406 HIGUERA • BOX 592 • SAN LUIS OBISPO, CALIFORNIA 93406 • (805) 544-3334

D. L. KENNADY

653.8

October 7, 1985

00T 09 18 le

Ulik ta it sila sa sai. Putus an ian

Mr. Hal Halldin City of Pismo Beach P. O. Box 3 1000 Bello Street Pismo Beach, CA 93449

RE: Test Wells in Price Canyon

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Sincerely,

"bal O Rottisberger NEAL O. ROTLISBERGER

District Land Supervisor

Attachments

PERMIT AND INDEMNITY AGREEMENT

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PGandE shall have the right to inspect or obtain a copy of the original policy(ies) of insurance.

P.G.&r. CO.

Permittee shall furnish the required certificates and endorsements to PGandE prior to commencing performance hereof.

Permittee shall contact PGandE's facility manager (R. Large) at 773-4284 and USA (Underground Service Alert at (408) 642-2444 at least 48 hours in advance of the drilling operation to determine exact drilling locations.

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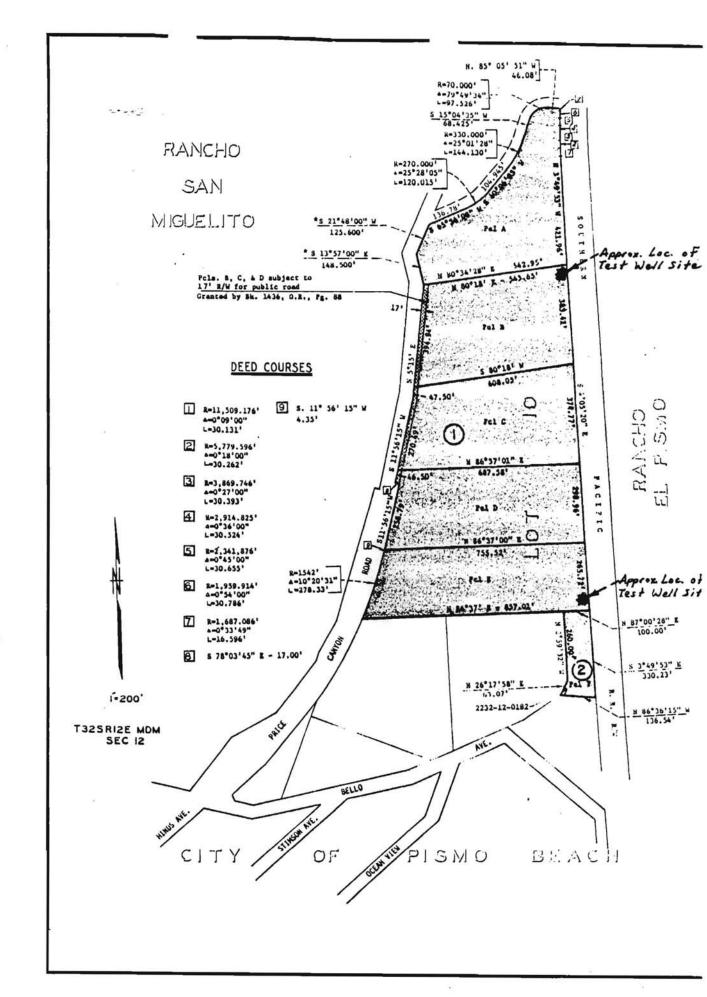
PACIFIC GAS AND ELECTRIC COMPANY Attention: Manager of Insurance 77 Beale Street, Room E-280 San Francisco, Calif. 94106

PACIFIC GAS AND ELECTRIC COMPANY Attention: Regional Land Supervisor 111 Almaden Blvd., Rm 804 San Jose, Calif. 95115

Permittee agrees to share all findings, reports and analysis, arising out of the drilling conducted on PGandE's property.

PGandE reserves the right to revoke this permission with or without cause and the permit may be superseded by other documents in a form satisfactory to PGandE, to be issued by Mission Trail Region Land Department, to provide for Permittees access to the wells. The parties also agree that this indemnity shall remain in affect notwithstanding the expiration or termination of this permission.

By X. E. Emgline By		
L. E. ENGLUND	CITY OF PISMO BEACH	
Regional Land Supervisor	Mayor	
Pacific Gas and Electric Co.		
9-19-83		
Date	Date	



PERMIT AND INDEMNITY AGREEMENT

City of Pismo Beach, hereinafter called Permittee, assumes all risk and liability for drilling and immediately refilling two test wells at the locations shown in red on the attached drawing on the parcel SBE 135-40-25B (Parcels 1 and 2) located in Pismo Beach, owned and operated by Pacific Gas and Electric Company, a California corporation, hereinafter called PGandE, who gives its permission as an accommodation to a request made by Permittee.

Permittee shall indemnify and hold PGandE harmless, including its officers, agents and employees from loss, claims, liability, damages (including damages to PGandE's property and personal injury or death, including the City of Pismo Beach, its Contractors, or PGandE, its agents and employees) arising out of Permittee's drilling or other activities pursuant to ground water monitoring.

Permittee's contractors shall maintain during the performance hereof, Comprehensive General Liability and Comprehensive Automobile Liability of not less than \$2,000,000 combined single limit or equivalent for bodily injury, personal injury and property damage as the result of any one occurrence.

Comprehensive General Liability shall include coverage for Premises - Operations, Owners and Contractors Protective, Products/Completed Operations Hazard, Contractual Liability, and Broad Form Property Damage including Completed Operations. Comprehensive Automobile Liability shall include coverage for Owned, Hired, and Non-Owned automobiles.

Such insurance shall include, by endorsement to the policy(ies), PGandE as an additional insured insofar as any liability arising out of the permit by the Permittee with PGandE is concerned, contain a severability of interest clause, provide that PGandE shall not by reason of its inclusion as an additional insured incur liability to the insurance carrier for payment of premium for such insurance, and provide 30-days' written notice to PGandE prior to cancellation, termination, alternation or material change of such insurance.

Evidence of coverage described above shall state that coverage provided is primary and is not excess or contributing with any insurance or self-insurance maintained by PGandE.

PGandE shall have the right to inspect or obtain a copy of the original policy(ies) of insurance.

Permittee shall furnish the required certificates and endorsements to PGandE prior to commencing performance hereof.

Permittee shall contact PGandE's facility manager (R. Large) at 773-4284 and USA (Underground Service Alert at (408) 642-2444 at least 48 hours in advance of the drilling operation to determine exact drilling locations.

All insurance certificates, endorsements, cancellations, terminations, alternations and material changes of such insurance shall be issued and submitted to the following:

PACIFIC GAS AND ELECTRIC COMPANY Attention: Manager of Insurance 77 Beale Street, Room E-280 San Francisco, Calif. 94106

PACIFIC GAS AND ELECTRIC COMPANY Attention: Regional Land Supervisor 111 Almaden Blvd., Rm 804 San Jose, Calif. 95115

Permittee agrees to share all findings, reports and analysis, arising out of the drilling conducted on PGandE's property.

PGandE reserves the right to revoke this permission with or without cause and the permit may be superseded by other documents in a form satisfactory to PGandE, to be issued by Mission Trail Region Land Department, to provide for Permittees access to the wells. The parties also agree that this indemnity shall remain in affect notwithstanding the expiration or termination of this permission.

By T. F. Carling	Ву
L. E. ENGLUND Regional Land Supervisor Pacific Gas and Electric Co	CITY OF PISMO BEACH Mayor
Date	Date

