

[GWDB Reports and Downloads](#)

**Well Basic Details**

[Scanned Documents](#)

<b>State Well Number</b>	7957606
<b>County</b>	San Patricio
<b>River Basin</b>	San Antonio-Nueces
<b>Groundwater Management Area</b>	16
<b>Regional Water Planning Area</b>	N - Coastal Bend
<b>Groundwater Conservation District</b>	San Patricio County GCD
<b>Latitude (decimal degrees)</b>	28.0683333
<b>Latitude (degrees minutes seconds)</b>	28° 04' 06" N
<b>Longitude (decimal degrees)</b>	-97.8855556
<b>Longitude (degrees minutes seconds)</b>	097° 53' 08" W
<b>Coordinate Source</b>	Global Positioning System - GPS
<b>Aquifer Code</b>	121EVGL - Evangeline Aquifer
<b>Aquifer</b>	Gulf Coast
<b>Aquifer Pick Method</b>	
<b>Land Surface Elevation (feet above sea level)</b>	102
<b>Land Surface Elevation Method</b>	Digital Elevation Model -DEM
<b>Well Depth (feet below land surface)</b>	410
<b>Well Depth Source</b>	Driller's Log
<b>Drilling Start Date</b>	
<b>Drilling End Date</b>	12/19/1984
<b>Drilling Method</b>	Mud (Hydraulic) Rotary
<b>Borehole Completion</b>	Screened

<b>Well Type</b>	Withdrawal of Water
<b>Well Use</b>	Unused
<b>Water Level Observation</b>	TWDB Current Observation Well
<b>Water Quality Available</b>	No
<b>Pump</b>	Submersible
<b>Pump Depth (feet below land surface)</b>	
<b>Power Type</b>	Electric Motor
<b>Annular Seal Method</b>	
<b>Surface Completion</b>	
<b>Owner</b>	City of Corpus Christi BSA Camp Karankawa
<b>Driller</b>	Layne Texas Co.
<b>Other Data Available</b>	
<b>Well Report Tracking Number</b>	
<b>Plugging Report Tracking Number</b>	
<b>U.S. Geological Survey Site Number</b>	
<b>Texas Commission on Environmental Quality Source Id</b>	
<b>Groundwater Conservation District Well Number</b>	
<b>Owner Well Number</b>	
<b>Other Well Number</b>	
<b>Previous State Well Number</b>	
<b>Reporting Agency</b>	Texas Water Development Board
<b>Created Date</b>	3/20/1997
<b>Last Update Date</b>	3/18/2021

**Remarks** | Tested at 403 gpm with drawdown of 125.78 feet. Water pumps into lake.

**Casing**

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
20	Blank	Steel			0	104
13	Blank	Steel			0	145
13	Screen	Steel			145	170
13	Blank	Steel			170	194
13	Screen	Steel			194	225
13	Blank	Steel			225	235
13	Screen	Steel			235	250
13	Blank	Steel			250	285
13	Screen	Steel			285	335
13	Blank	Steel			335	354
13	Screen	Steel			354	369

**Well Tests**

Test Date	Test Type	Yield (gallons per minute)	Drawdown (ft.)	Test Hours
	Unknown	403	125.78	

**Lithology**

Top Depth (ft.)	Bottom Depth (ft.)	Description
0	1	top soil
1	10	white sand and caliche
10	30	white clay
30	98	gravel and sand
98	103	clay, lime, and gravel
103	122	sand, gravel (fine), and clay streaks
122	134	clay
134	167	clay and gravel
167	208	clay
208	300	sand and clay
300	331	clay
331	361	sand and clay
361	391	sand
391	415	shale
415	481	sand
481	495	clay

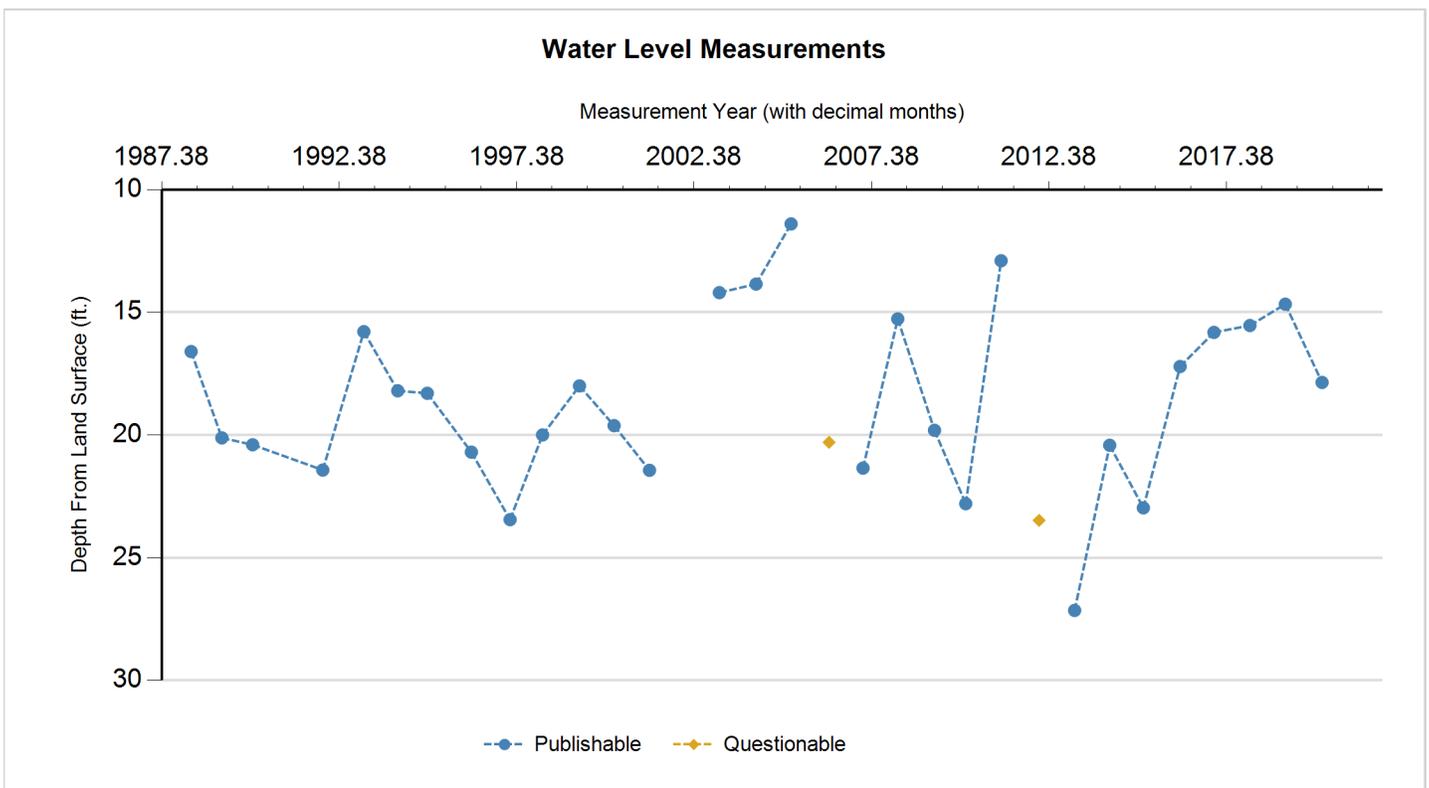
**Annular Seal Range - No Data**

**Borehole - No Data**

**Plugged Back - No Data**

**Filter Pack - No Data**

**Packers - No Data**



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	3/16/1988		16.6		85.4	1	Texas Water Development Board	Steel Tape		
P	1/27/1989		20.12	3.52	81.88	1	Texas Water Development Board	Steel Tape		
P	12/14/1989		20.4	0.28	81.6	1	Texas Water Development Board	Steel Tape		
P	12/5/1991		21.43	1.03	80.57	1	Texas Water Development Board	Steel Tape		
P	1/27/1993		15.79	(5.64)	86.21	1	Texas Water Development Board	Steel Tape		
P	1/11/1994		18.2	2.41	83.8	1	Texas Water Development Board	Steel Tape		
P	11/15/1994		18.3	0.10	83.7	1	Texas Water Development Board	Steel Tape		
P	2/8/1996		20.7	2.40	81.3	1	Texas Water Development Board	Steel Tape		
P	3/11/1997		23.45	2.75	78.55	1	Texas Water Development Board	Steel Tape		
P	2/10/1998		20	(3.45)	82	1	Texas Water Development Board	Steel Tape		
P	2/25/1999		18	(2.00)	84	1	Texas Water Development Board	Steel Tape		
P	2/16/2000		19.62	1.62	82.38	1	Texas Water Development Board	Steel Tape		
P	2/15/2001		21.44	1.82	80.56	1	Texas Water Development Board	Steel Tape		
X	3/7/2002					1	Texas Water Development Board		30	
P	2/3/2003		14.2		87.8	1	Texas Water Development Board	Steel Tape		
P	2/16/2004		13.85	(0.35)	88.15	1	Texas Water Development Board	Steel Tape		
P	2/11/2005		11.4	(2.45)	90.6	1	Texas Water Development Board	Steel Tape		
Q	3/7/2006		20.3	8.90	81.7	1	Texas Water Development Board	Steel Tape	10	
P	2/21/2007		21.35	1.05	80.65	1	Texas Water Development Board	Steel Tape		
P	2/13/2008		15.27	(6.08)	86.73	1	Texas Water Development Board	Steel Tape		
P	2/26/2009		19.81	4.54	82.19	1	Texas Water Development Board	Steel Tape		

**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
79-57-606**

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/12/2010		22.8	2.99	79.2	1	Texas Water Development Board	Steel Tape		
P	1/11/2011		12.9	(9.90)	89.1	1	Texas Water Development Board	Steel Tape		
Q	2/7/2012		23.48	10.58	78.52	1	Texas Water Development Board	Steel Tape	15	
P	2/7/2013		27.15	3.67	74.85	1	Texas Water Development Board	Steel Tape		
P	2/3/2014		20.42	(6.73)	81.58	1	Texas Water Development Board	Steel Tape		
P	1/14/2015		22.97	2.55	79.03	1	Texas Water Development Board	Steel Tape		
P	1/27/2016		17.21	(5.76)	84.79	1	Texas Water Development Board	Steel Tape		
P	1/10/2017		15.82	(1.39)	86.18	1	Texas Water Development Board	Steel Tape		
P	1/15/2018	1405	15.54	(0.28)	86.46	1	Texas Water Development Board	Steel Tape		
P	1/14/2019	1310	14.67	(0.87)	87.33	1	Texas Water Development Board	Steel Tape		
P	1/27/2020	1442	17.86	3.19	84.14	1	Texas Water Development Board	Steel Tape		
X	12/16/2020	1214				1	Texas Water Development Board		30	

**Code Descriptions**

Status Code	Status Description
P	Publishable
Q	Questionable
X	No Measurement

Remark ID	Remark Description
10	Inconsistent or spotty tape mark due to wet or leaking casing
15	Tape does not fall free in well
30	Well site temporarily inaccessible due to impassable roads, locked gate, etc.

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**Water Quality Analysis - No Data Available**

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*GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<http://www.twdb.texas.gov/groundwater/data/gwdb.rpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at [GroundwaterData@twdb.texas.gov](mailto:GroundwaterData@twdb.texas.gov).*

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

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Outcrop: Pg - Goliad Fm.  
 Aquifer(s) Goliad Fm. (024) Project No. \_\_\_\_\_ State Well No. 79 - 57 - 606  
 Field No./Owner's Well No. WSW-84-2 BOY SCOUT County San Patricio (205)

1. Location: \_\_\_\_\_, Section \_\_\_\_\_, Block \_\_\_\_\_, Survey \_\_\_\_\_, Lat. 28°04'05", Long. 97°53'07"

2. Owner: City of Corpus Christi Address: PH (512) - 880 - 3000 P.O. Box 9277 Corpus Christi, TX 787469

\* Tenant (other): James L. Riley, P.E. Address: Wesley Seal Dam (Lake Corpus Christi) P.O. Box 98 SANDIA, TX 78383 (512) 597-2122

Driller: Layne Texas Co Address: P.O. Box 9462 Houston, TX 77261 (713) 928-5741

3. Land Surface Elevation: 100 ft. above msl determined by 7 1/2 min. topographic map

4. Drilled: 10/30/1984; Dug, Cable Tool, Rotary, Air, Mud

5. Depth: Rept. 425 ft. Meas. \_\_\_\_\_ ft.

6. Borehole Completion: Open Hole, Straight Wall Underreamed, Gravel Packed

7. Pump: Mfr. Marshal Type 10 L 30 A TRIM 213 TDH

No. Stages ONE, Bowls Diam. \_\_\_\_\_ in., Setting 240 ft.

Column Diam. \_\_\_\_\_ in., Length Tailpipe \_\_\_\_\_ ft.

8. Motor: Mfr. \_\_\_\_\_ Fuel \_\_\_\_\_ HP. 25

\*\* 9. Yield: Flow \_\_\_\_\_ gpm, Pump 265 gpm, Meas., Rept., Est. \_\_\_\_\_ Date \_\_\_\_\_

10. Performance Test: Date \_\_\_\_\_ Length of Test \_\_\_\_\_ Made by \_\_\_\_\_

Static Level \_\_\_\_\_ ft. Pumping Level 265 ft. Drawdown \_\_\_\_\_ ft.

Production \_\_\_\_\_ gpm Specific Capacity \_\_\_\_\_ gpm/ft.

11. Quality: (Remarks on taste, odor, color, etc.) \_\_\_\_\_

Analyses

Date \_\_\_\_\_ Laboratory \_\_\_\_\_ TDS \_\_\_\_\_ Sp Cond \_\_\_\_\_

Date \_\_\_\_\_ Laboratory \_\_\_\_\_ TDS \_\_\_\_\_ Sp Cond \_\_\_\_\_

12. Other data available (as circled): Pumping Test, Power & Yield Test, Drillers Log

Formation Samples, Geophysical Log(s) \_\_\_\_\_ (type)

13. Water Level(s): 17.50 ft. rept. meas. 3/16/1988 above edge 1" mess pipe which is 0.88 ft. above Land Surface

\_\_\_\_\_ ft. rept. meas. 19 above which is \_\_\_\_\_ ft. above Land Surface

14. Use: Dom., Stock, Public Supply, Ind., Irr., Observation, Other (Test Hole, Oil Test, etc.)

15. Recorded by: Eric Adidas Source of data: Obs & City files Date: 3/17/88

16. Remarks: Datum 4.5' AGL. Well located between Campfire shed and the shore of the lake on the right handside as you walk toward the lake.

\*\* Contact to visit well - Dave Springer is ranger living at the camp

\*\* Flow meter installed.

17. Location or Sketch: \_\_\_\_\_

⊙

E-209

CASING, BLANK PIPE & WELL SCREEN Cemented From <u>0</u> ft. to <u>104</u> ft.			
OD Diam. (in.)	Type	Setting (feet)	
		from	to
20	78-60# Steel Csg	0	104
12 3/4 (OD)	lines		
12 3/4	Steel 49.5#	+6	144.50
12 3/4 (OD)	0.020" slot wire wrap screen	144.50	169.50
12 3/4 (OD)	Steel Pipe line	169.50	194.47
12 3/4	Wire wrapped screen	194.47	224.62
12 3/4	Steel casing	224.62	234.52
12 3/4	Wire wrapped screen	234.52	249.64
12 3/4 (OD)	Steel casing	249.64	284.59
12 3/4	Wire Wrap screen	284.59	335.16
12 3/4	Steel casing	335.16	354.11
12 3/4	Wire Wrap screen	354.11	369.11

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13067 Austin, Texas 78711

State of Texas  
**WATER WELL REPORT**

For TDWR use only  
Well No. 79-58-4H  
Located on map YES  
Received: C.F.S.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER City of Corpus Christi <sup>90 E. L. Road</sup> Address 701 Governor's Plaza Plaza Corpus Christi TX 78465  
(Name) (Street or RFD) (City) (State) (Zip)  
2) LOCATION OF WELL: Harris San Patricio Trails in \_\_\_\_\_ direction from \_\_\_\_\_ (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

Legal description: Section No. \_\_\_\_\_ Block No. \_\_\_\_\_ Township \_\_\_\_\_  
Abstract No. \_\_\_\_\_ Survey Name \_\_\_\_\_  
Distance and direction from two intersecting section or survey lines \_\_\_\_\_

See attached map.

3) TYPE OF WORK (Check):  New Well  Deepening  Reconditioning  Plugging  
4) PROPOSED USE (Check):  Domestic  Industrial  Public Supply  Irrigation  Test Well  Other \_\_\_\_\_  
5) DRILLING METHOD (Check):  Mud Rotary  Air Hammer  Driven  Bored  Air Rotary  Cable Tool  Jetted  Other \_\_\_\_\_

6) WELL LOG:  
#2-54  
(at Bayshore Camp)  
Date drilled 10/30/84

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
16	Surface	104
24	104	405 TD

7) BOREHOLE COMPLETION:  
 Open Hole  Straight Wall  Underreamed  
 Gravel Packed  Other \_\_\_\_\_  
If Gravel Packed give interval ... from 104 ft. to 405 TD ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

From (ft.)	To (ft.)	Description and color of formation material	Dia. (in.)	New or Used	Steel, Plastic, etc. Part., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
						From	To	
		<u>See attached Well log</u>	<u>20</u>	<u>N</u>	<u>Blank Steel Csg</u>	<u>+2</u>	<u>104</u>	
		<u>E-log</u>	<u>12</u>	<u>N</u>	<u>Blank Steel Screen</u>	<u>+2</u>	<u>140</u>	
		<u>Quarrying Road</u>	<u>12</u>	<u>N</u>	<u>53" W. Packag. Screen</u>	<u>140</u>	<u>165</u>	<u>0.25</u>
		<u>(requires to be run by Joe V. ... Proj. Engr.)</u>	<u>12</u>	<u>N</u>	<u>Blank Steel Screen</u>	<u>190</u>	<u>220</u>	<u>0</u>
			<u>12</u>	<u>N</u>	<u>Blank Steel Screen</u>	<u>230</u>	<u>245</u>	<u>0</u>
			<u>12</u>	<u>N</u>	<u>Blank Steel Screen</u>	<u>350</u>	<u>365</u>	<u>0</u>

9) CEMENTING DATA  
Cemented from Surface ft. to 104 ft.  
Method used Hydraulic  
Cemented by Hydraulic  
(Company or Individual)

10) WATER LEVEL:  
Static level 25 ft. below land surface Date 11/15/84  
Artesian flow \_\_\_\_\_ gpm. Date \_\_\_\_\_

**RECEIVED**  
**APR 30 1985**  
**DEPT. OF WATER RESOURCES**

11) TYPE PUMP:  
 Turbine  Jet  Submersible  Cylinder  
 Other \_\_\_\_\_  
Depth to pump bowls, cylinder, jet, etc., 330 ft.

12) WELL TESTS:  
 Type Test  Pump  Bailor  Jetted  Estimated  
Yield: 403 gpm with 157 ft. drawdown after 24 hrs.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Leland Lawson Water Well Drillers Registration No. 2A  
(Type or Print)  
ADDRESS PO Box 9469 Houston TX 77261  
(Street or RFD) (City) (State) (Zip)  
(Signed) Leland Lawson 28 Layne Tamm Co  
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

## WELL LOG

CUSTOMER LOCATION		WELL DATA	
FOR	City of Corpus Christi	NAME WELL	WELL NO. 84-2
LOCATION WELL	Lake Corpus Christi in the Boy Scout camp.	ELEVATION	DATUM
SURVEY	FIELD	RT	C
COUNTY	Can Patricio	STATE	Texas
OTHER LAND MARKS		TEST HOLE SIZE	7 7/8" TO 495'
		DATE STARTED DRILLING	10-29-84
		DATE FINISHED DRILLING	10-30-84
		DRILLER	J.O. Rowe
		TYPE MUD	Gel
		ELECTRIC LOG	Yes
		RIG NO.	10
		NO. SACKS	10
		TYPE	G.O.
		SURVEY	TYPE
		OTHER	C. Bass

DEPTH STRATA	EACH STRATUM	DESCRIPTION FORMATION	SAMPLES		
			DEPTH	TYPE	NUMBER
0		Surface			
1'	1'	Top Soil			
10'	9'	White sand and caliche			
30'	20'	White clay			
98'	68'	Gravel and sand			
103'	5'	Clay, lime and gravel			
122'	19'	Sand, gravel (fine) and clay stks.			
134'	12'	Clay			
167'	33'	Clay and gravel			
208'	10'	Clay			
300'	92'	Sand and clay			
331'	31'	Clay			
361'	30'	Sand and clay			
391'	30'	Sand			
415'	24'	Shale			
481'	66'	Sand			
495'	14'	Clay			

79-57-606

Cemented (in shaded areas)  
Operator or other items.

City of Corpus  
San Patricio

RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division

Form W-15  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
5. Field Name (Wildcat or exactly as shown on RRC records)	6. API No. 42-		7. Drilling Permit No.
8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		11/3/84					
13. •Drilled hole size							
•Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)							
15. Top of liner (ft.)							
16. Setting depth (ft.)							
17. Number of centralizers used							
18. Hrs. waiting on cement before drill-out							
1st Shurry	19. API cement used: No. of sacks ▶	120					
	Class ▶	A					
	Additives ▶	none					
2nd Shurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Shurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Shurry pumped: Volume (cu. ft.) ▶	141.6					
	Height (ft.) ▶	surface					
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	141.6					
	Height (ft.) ▶	surface					
21. Was cement circulated to ground surface (or bottom of casing) outside casing?		Yes					
22. Remarks							

OVER ▶

29-57-606

CEMENT	PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date									
24. Size of hole or pipe plugged (in.)									
25. Depth to bottom of tubing or drill pipe (ft.)									
26. Sacks of cement used (each plug)									
27. Slurry volume pumped (cu. ft.)									
28. Calculated top of plug (ft.)									
29. Measured top of plug, if tagged (ft.)									
30. Slurry wt. (lbs/gal)									
31. Type cement									

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

**Billy Barnes/District Manager HALLIBURTON SERVICES**

Name and title of cementer's representative

Cementing Company

Signature

5338 Leopard St. Corpus Christi, Texas 78408

512 289-1911

12/4/84

Address

City

State, Zip Code

Tel: Area Code Number

Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Typed or printed name of operator's representative

Title

Signature

Address

City

State, Zip Code

Tel: Area Code Number

Date: mo. day yr.

### Instructions to Form W-15, Cementing Report

**IMPORTANT:** Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-3 or O-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

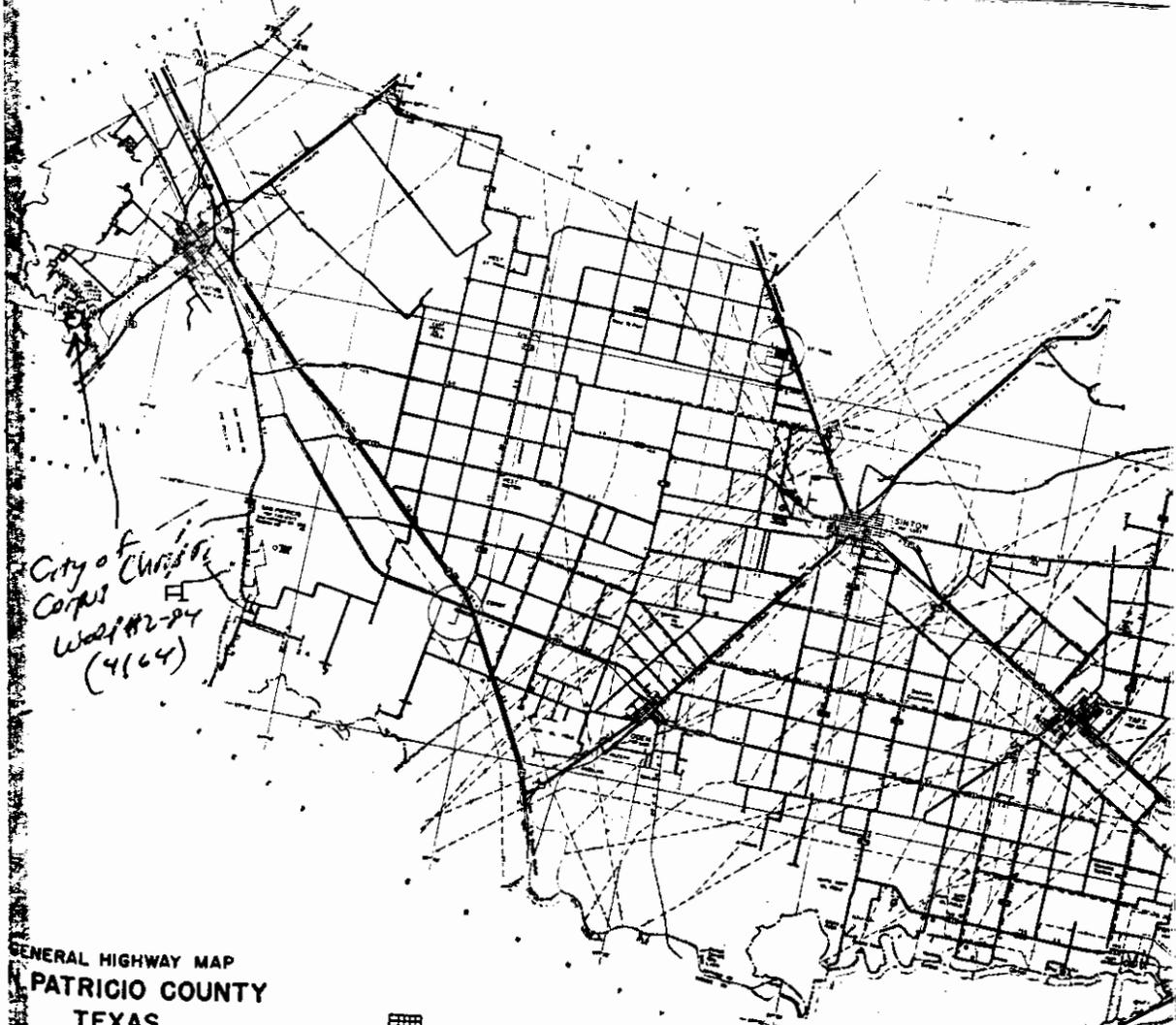
E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in cementers approved by the Director of Field Operating that they are able to mix and pump cement in cementing companies, service companies, or once with Commission rules and regulations.

79-57-606



**GENERAL HIGHWAY MAP  
PATRICIO COUNTY  
TEXAS**

OFFICE OF THE  
STATE DEPARTMENT OF HIGHWAYS  
AND PUBLIC TRANSPORTATION  
TRANSPORTATION PLANNING DIVISION  
IN COOPERATION WITH THE  
DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

1970  
1970 GENERAL RELEASE  
CORRECTED EDITION TO FEBRUARY 1, 1970



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From intersection of FM 1088 and PR 25 (on Mathis, Tex. topo. SWN 79-58) go 1.3 mi. to Sign:

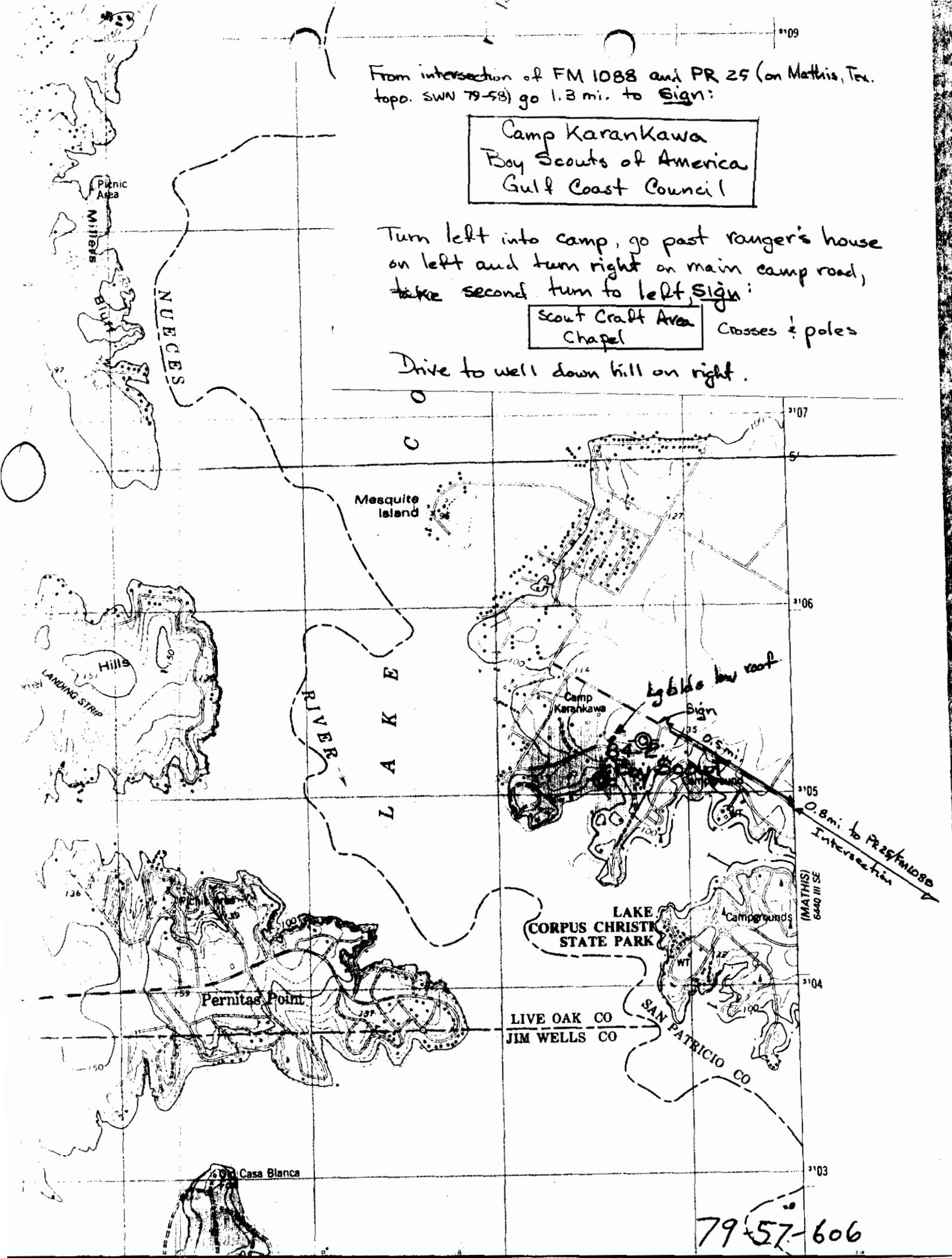
Camp Karankawa  
Boy Scouts of America  
Gulf Coast Council

Turn left into camp, go past ranger's house on left and turn right on main camp road, take second turn to left, Sign:

Scout Craft Area  
Chapel

Crosses 2 poles

Drive to well down hill on right.



79-57-606

WELL COMPLETION INFORMATION

CLIENT: City of Corpus Christi

WELL NO: WSW 84-2 (Boy Scout)

DATE OF COMPLETION: December 19, 1984

TYPE OF COMPLETION: Gravel Pack

DATUM: KB 4.5' AGL

TD: 495'

PBTD: 410'

CASING:

<u>Size</u>	<u>Material</u>	<u>Setting</u>
20"	78-60#	0-104'
12 3/4" OD	Lines 49-56#	+6.5-144.50'
		224.62-234.52'
		249.64-284.59'
		335.16-354.11'
		369.11-410.06'

SCREENS:

<u>Size</u>	<u>Material</u>	<u>Setting</u>	<u>Openings</u>
12 3/4" OD	Stainless Steel	144.50-169.50'	.020"
	Wire Wrap Screen	194.47-224.62'	
	On Black Pipe	234.52-249.64'	
	Base	284.59-335.16'	
		354.11-369.11'	

GRAVEL PACK:

40% Lone Star 361  
60% Lone Star 375

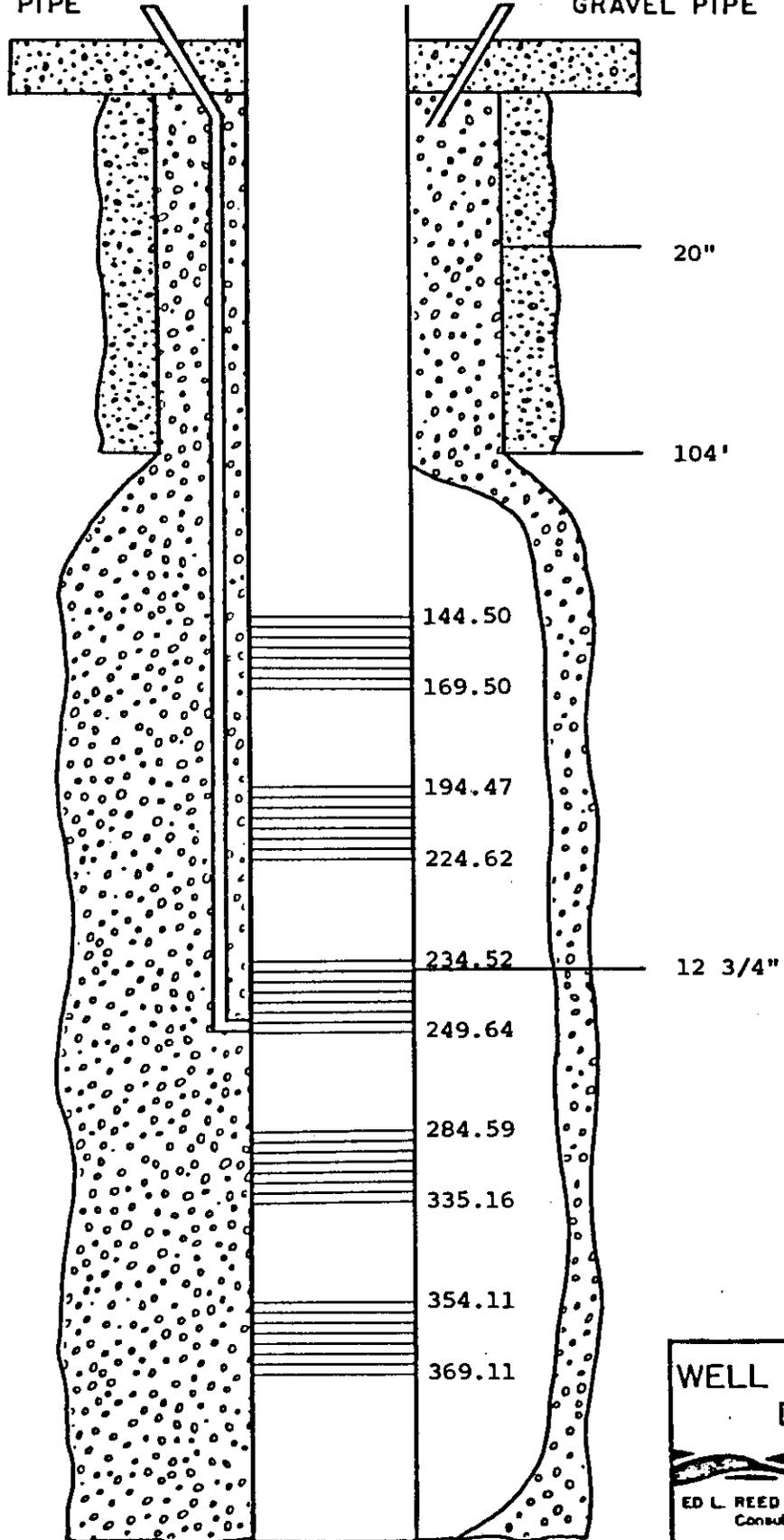
79-57-606

CLIENT: City of Corpus Christi, Texas

WELL NO. WSW 84-2

3/4" MEASURING PIPE

GRAVEL PIPE



LEGEND

-  CEMENT
-  GRAVEL PACK

WELL COMPLETION DIAGRAM

ED L. REED AND ASSOCIATES, INC.  
Consulting Hydrologists  
Corpus Christi, Tx.  
Midland, Tx.

79-57-606

DAILY LOG

CLIENT Corpus Water Supply  
 WELL WSW 84-2  
 BY Tom Wilson, Steve Reed, Jack Collins

Ed L. Reed & Associates, Inc.  
 Consulting Hydrologist  
 Corpus Christi-Midland, Texas

DATE	TIME	DEPTH	ACTIVITY
1984			
10/29	11:20		Arrive site. 8" test hole drilling in progress to 44'. Samples every 10'. (jt #1 to 28', jt #2 to 58')
	11:45	64' (56')	Add joint #3.
	12:01	58'	Begin joint #3.
	12:10		Stop to add mud. Gravel zone. Depart site.
	12:40		Resume drilling joint #2.
		0-10'	Tan silt with fine sand.
		10-20'	Tan sandy silty clay with trace of gravel and gray clay seams.
		20-30'	Tan, clayey sand with trace gravel.
		30-40'	Tan coarse sand with fine gravel 70% qty.
		40-50'	Tan, coarse qty sand with fine gravel.
		50-60'	Same.
	1:30		Rig down, working on mud pump.
	1:33		Resume drilling.
		60-70'	
		70-80'	Tan coarse sand with gravel.
		80-90'	Tan coarse sand with gravel and clayey streaks.
	2:30	± 88'	Finish joint #3. Add mud to wash out gravel.
	3:30		Gravel not washing out, add more mud. Approximately 10' of gravel falls back. Eventually washes out of hole; white, tan and brown gravel to 1" diameter (artificially graded).
	4:10		Preparing alignment survey tool.
	5:38	118'	Finish drilling joint #4.
		98-103'	Tan - orange sandy clay with fine gravel, per driller.
		103-118'	Tan medium - coarse sand with some fine gravel, per driller.
	5:53	118'	Begin joint #5, Add water to drilling fluid.
		122-134'	Tan clayey sand with gravel, 118-140 slow, 140-145 faster, 145-149 slow.
	6:50	149'	Finish drilling joint #5.
	7:10	149'	Begin joint #6.
	7:28	177'	Finish joint #6 (28' joint) 28'/18 min = 1.5' ft/min.
		134-167'	Tan sandy clay with gravel.
	8:15		Depart site. Drilling joint #7 in progress (or cleaning out).
	0700	475'	Base sand.
		167-188'	60% pink clay 40% very fine gray sand. Trace of caliche.
		188-198'	Same.
		198-208'	No sample.
		208-218'	20% pink clay, 80% fine-very fine sand.
		218-228'	Same with minor CS-V.CSE sand.
		228-238'	Same.
		238-270'	No sample.
		270-300'	80% pink clay, 20% very fine - fine sand.

7957-606

DAILY LOG

CLIENT Corpus Water Supply  
 WELL WSW 84-2  
 BY Tom Wilson, Steve Reed, Jack Collins

Ed L. Reed & Associates, Inc.  
 Consulting Hydrologist  
 Corpus Christi-Midland, Texas

DATE	TIME	DEPTH	ACTIVITY
1984			
		300-311'	90% pink clay 10% fine - very fine sand.
		311-371'	No sample.
		361-371'	Fine - medium tan sand.
		371-381'	Same
		381-395'	Same
		395-415'	No sample.
		415-425'	Same
		425-435'	Same
		435-445'	Same
		445-455'	Same
		455-465'	Same
		465-475'	Same
		475-485'	No sample
		485'	Clay
		495'	TD
10/29	0800		Start drilling test hole.
10/30	1300		Run log in TH TD 495. Log shows approximately 70' less sand than in 84-1. Drill run black pipe base WR SS Screen in stead of all SS.
10/31			SD
11/1			SD
11/5			Layne- Texas reaming to 400' and setting 10' cement plug.
11/6			Upreaming from 390' to 104.
11/7	2:10		Arrive site. Layne circulating and thinning mud. 12 joints of black steel casing and SS WW screen on site. Scheduled to begin setting pipe 6:00 a.m. 11/8.
			Tallied pipe with drilling crew.
	5:30		Depart site.
11/8	8:20		Arrive site. Check pipe tally figures with Layne tool pusher. Cut 2' off joint #1 (39.65 -2 = 37.65). Will set bottom of string at 405' BGL. Screens will be 1' above proposed setting. Layne pulling drill pipe, welders placing lugoon joints. Will attach measuring pipe at bottom of screen.
	9:45		Begin setting screens and blank pipe.
	10:00		SR, PW, SE and JR visit site.
	12:10		Leave site to begin CC #1 recovery test.
	1:35		Return to site.
	1:50		Begin welding joint #8, final screen section.
	2:30		Leave site to check on WSW-84-3 progress.
	4:15		Return to site, welding m.p. on last joint.
	4:30		TOC is $\pm$ 2.5' too high, suspect gravel settled to bottom of hole.

79-57-606

DAILY LOG

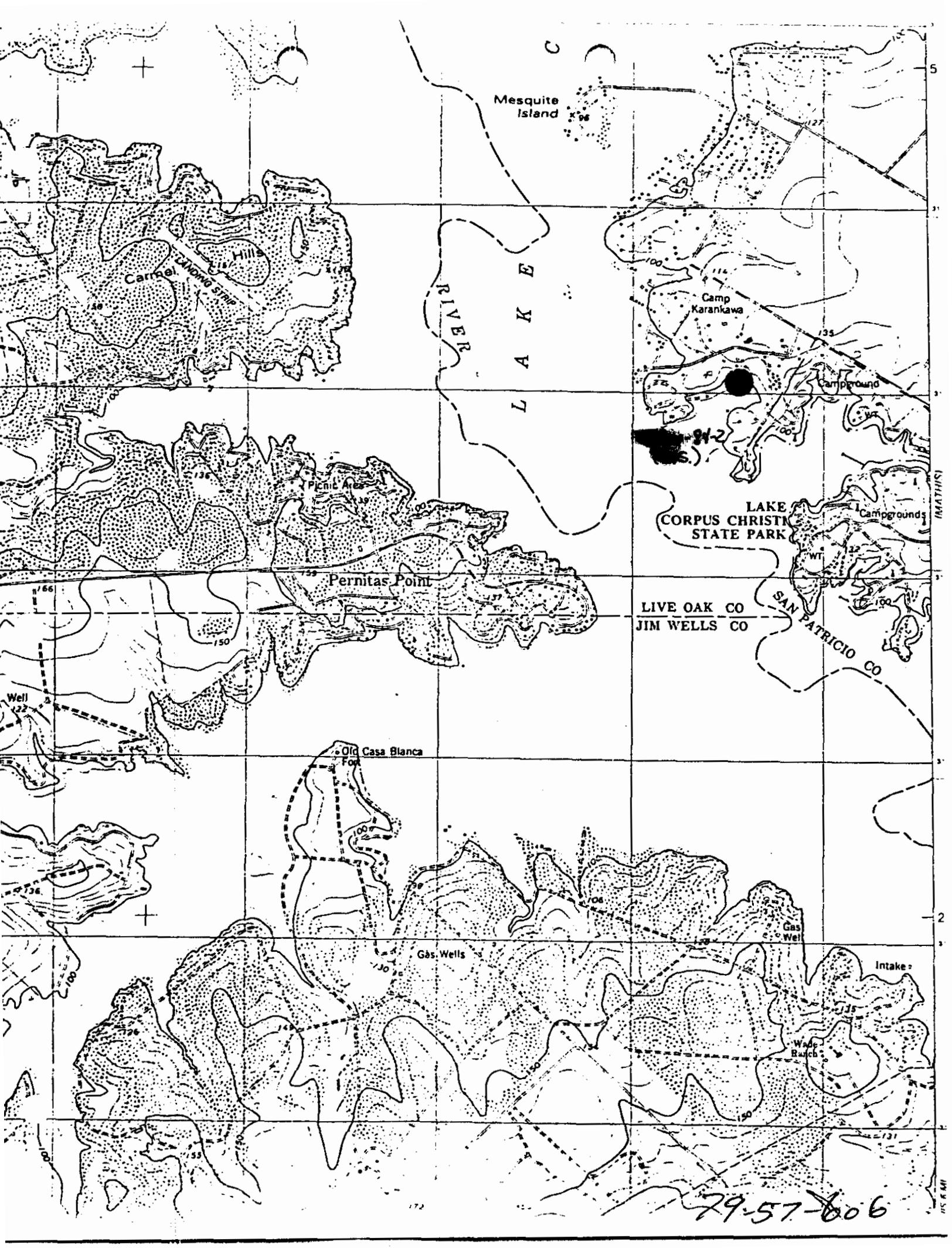
CLIENT Corpus Water Supply  
 WELL WSW 84-2  
 BY Tom Wilson, Steve Reed, Jack Collins

Ed L. Reed & Associates, Inc.  
 Consulting Hydrologist  
 Corpus Christi-Midland, Texas

DATE	TIME	DEPTH	ACTIVITY
1984			
	4:45		Call office.
	5:10		Begin R.I. to wash out gravel on bottom.
	1835		5.33' casing AGL. Depart site. Will gravel pack during night shift.
11/9			Finish gravelling during night shift. Gravel only 10-12' up inside SC. WO more gravel before development begins.
	4:30		Gravel 5' BGL. Will agitate on night shift.
11/10	7:00		Gravel settles to 87' BGL, fill to 50' BGL. Will continue to agitate today.
	1:20		Layne continues surging.
11/10			Continue to develop with rig.
11/12			Pull pump from 84-1 move to 84-2.
11/13			Run pump - surge 1400-1600.
	2:00		Surge and backwash with pump 700 gpm, pwl 190' cleaned up after about 1 hour.
11/14	0800-1600		Surge backwash and start tests.
11/14			SWL 22.17 Well Development - time and water levels
			106.3 1300-1500 - Surge and Backwash
			128.3 1500 - 40.67
			133.35 1505 - 129.20
			136.95 1510 - 136.14
			143.25 1515 - 138.14
			147.35 1520 - 140.90
			149.25 1525 - 141.97
			151.17 1530 - 143.05
	10-12		Backwash 1535 - 144.18
	1230		SWL 40.46 1540 - 144.78
	1230		129 1545 - 145.40
	1235		135.51 1550 - 145.98
	1245		139.40 1555 - 147.26
	1250		140.2 1600 - 147.95
	1255		141.59
	1305		143.32
	1310		144.25
	1315		144.66
	1320		145.39
	1325		145.85
	1330		146.47
11/15	0700		Start constant rate test
11/15	6-12		Layne - Texas on pump test, Pump on at 7:40 am at 403 GPM.
11/16	0800		Stop test and start recovery.
	2000		Stop recovery

79-57-606





Mesquite Island

Carnegie Hills

RIVER LAKE

Camp Karankawa

Picnic Area

Pernitas Point

LAKE CORPUS CHRISTI STATE PARK

LIVE OAK CO  
JIM WELLS CO

SAN PATRICIO CO

Old Casa Blanca

Gas Wells

Gas Well

Intake

Wade Ranch

79-57-606

MATHIS

2

3

1/2 & 1/4 MI

WELL COMPLETION INFORMATION

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WELL NO: WSW 84-2 (Boy Scout)  
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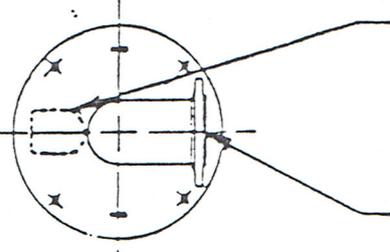
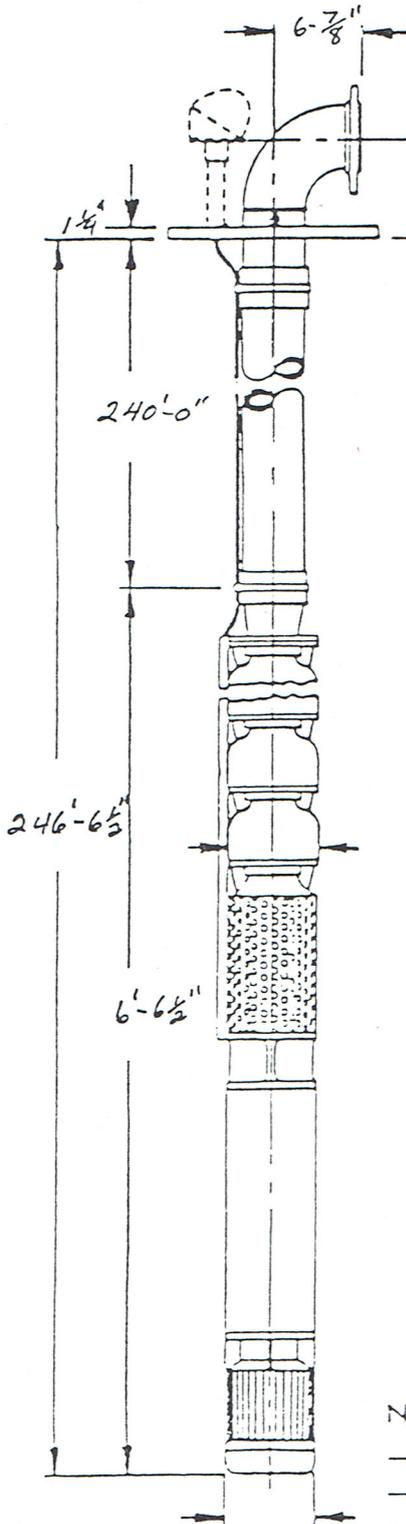
GRAVEL PACK:

40% Lone Star 361  
60% Lone Star 375

Boy Scout



# SUBMERSIBLE PUMP



JUNCTION BOX  YES  NO  
 SIZE NEMA 4X  
 4" -R.F. 150° ASA DISCH FLG.  
 8-3/4" HOLES  
 7 1/2" DIA BOLT CIRCLE  
 9" DIA FLANGE

19" x 1 1/4" BASE PLATE  
 4-1" BOLT HOLES  
 17" DIA. BOLT CIRCLE

ASSIGNED # 1112  
**MOTOR PUMP**

MAKE U.S. ELECTRIC  
 HP 25 RPM 3450  
 PHASE 3 CYCLES 60  
 VOLTAGE 460

TYPE 6-H-26 STAGE 3  
250 GPM 189 TDH

DEPTH GAUGE  Req'd.  Not Req'd.  
 AIR LINE  Req'd.  Not Req'd.

## CABLE

SIZE # 8-3  
 LENGTH 325 FT.  
 TYPE Heavy Duty JcTD.

MATERIAL \_\_\_\_\_  
 LENGTH \_\_\_\_\_

## MATERIAL

SURFACE PLATE STEEL  
 RISER PIPE STEEL  
 PUMP BOWL CAST IRON  
 IMPELLER BRONZE  
 BEARINGS BRONZE  
 BOWL SHAFT 416 SS  
 STRAINER 316 SS

## RISER

SIZE PIPE 4"  
 SECTION LENGTHS 11-2 1/2'; 1-9'

NOT FOR CONSTRUCTION  
UNLESS CERTIFIED

REMARKS \_\_\_\_\_  
 NO. UNITS REQ'D. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CUSTOMER Layne Texas  
P.O. Box 9469  
Houston, Texas  
 FURNISHED \_\_\_\_\_  
City of Corpus Christi  
Well No. 84-02  
 P.O. NO. 11554 JOB NO. \_\_\_\_\_  
 Pump Serial No. H439 Date 11-30-84

THE LAYNE TEXAS COMPANY, LTD.

NO. 1102-2968

HOUSTON -:- DALLAS

PAGE 1 OF 1

MATERIAL SETTING

FILE NO. 4164

DATE 11-9-84

CUSTOMER LOCATION		WELL DATA	
FOR	City of Corpus Christi	NAME WELL	WELL NO. 84-2
LOCATION WELL	Lake Corpus Christi in the Boy Scout Camp.	ELEVATION	DATUM
SURVEY	FIELD	TYPE WELL	Gravel Wall
COUNTY	San Patricio STATE Texas	SURFACE CASING	CEMENTED Yes NO. SACKS 120+8%
OTHER LAND MARKS		SIZE HOLE UNDERREAMED	24" DEPTH 104'-405'
		GRAVEL TYPE	375-361 NO. CU. YDS. 72
		TYPE SCREEN	S.S.W.W. Barlug GAGE .020
		DRILLER	J. C. Rowe RIG NO. 10
		OTHER C.	Bass

DEPTH	LENGTH	SIZE, KIND, WEIGHT MATERIAL	SKETCH
+2'		20" O.D. Surface Casing 78-60#	
+2'		12 3/4" O.D. Blank Lines 49-56#	
0		Ground Level	
104'	106'	20" O.D. Surface Casing 78-60#	
140.00'	142.00'	12 3/4" O.D. Blank Lines 49-56#	
165.00'	25.00'	12 3/4" O.D. S.S.W.W. Barlug Scr. .020GA	
189.97'	24.97'	12 3/4" O.D. Blank Lines 49-56#	
220.12'	30.15'	12 3/4" O.D. S.S.W.W. Barlug Scr. .020GA	
230.02'	9.90'	12 3/4" O.D. Blank Lines 49-56#	
245.14'	15.12'	12 3/4" O.D. S.S.W.W. Barlug Scr. .020GA	
280.09'	34.95'	12 3/4" O.D. Blank Lines 49-56#	
330.66'	50.57'	12 3/4" O.D. S.S.W.W. Barlug Scr. .020GA	
349.61'	18.95'	12 3/4" O.D. Blank Lines 49-56#	
364.61'	15.00'	12 3/4" O.D. S.S.W.W. Barlug Scr. .020GA	
403/56'	38.95'	12 3/4" O.D. Blank Lines 49-56#	
405.56'	2.00'	12 3/4" Set Nipple & B.P.V.	