APPLICATION FOR PRIVATE SEWAGE SYSTEM CONSTRUCTION PERMIT AND LICENSE

DATE APRIL 17,1996 PERMIT NO. 2750 FEE 130.%
I, hereby make an application for a license to construct and operate a private sewage disposal system in Gillespie County, Texas.
OWNER CAMP, BEN PHONE NO. 990-8040
MAILING ADDRESS P.O. Box 1458 FBG Tx 78624
HOUSE NO. AND STREET ADDRESS Hwy Z90 WEST FM 2093 SUBDIVISION, DESCRIBED LOCATION OR ATTACH A MAP/SKETCH NAME ABSTRACY 516 M. NARROD # Z19 Lock bottom SIZE ACREAGE OR TRACT 50 SECTION BLOCK LOT CONTROL OF STRUCTURE TO BE SERVED HOUSE (V) Mobile Home () Other Commercial
(Type of Business) Living Area (300) Bedrooms (3) Bathrooms (35) Disposal (/) Washing Machine () Dishwasher () Water Softner () Other Water Supply By: Public System () Community () Individual () DATE April 1, 1996 INSPECTOR-SANITARIAN BOOTS
Authorization is hereby given to the Private Sewage Facility, Gillespie County, Texas, Texas Department of Water Resources, the Texas State Department of Health Resources, or their agents or designees, singly or jointly, to enter upon the above described property for the purpose of making soil percolation tests, inspecting sewage systems, or for any reason consistent with the water quality program of the Texas Department of Water Resources, the Texas State Department of Health Resources and the Private Sewage Facility, Gillespie County, Texas.
(If signed by Owner, Authorized Agent, Contractor, provide name, address and phone #)
DATE 7 4-17-96 Ben M. Campo, Signature of Owner or Authorized Agent
Authorization to proceed with construction will be provided after a joint (Owner or Installer and Inspector for the Private Sewage Facility, Gillespie County, Texas survey of the proposed site for the facility and analysis of percolation test data) (If Required)
THIS PERMIT TO CONSTRUCT IS VALID FOR 180 DAYS. OFFICIAL USE ONLY
SITE INSPECTION OR PERCOLATION TEST
DATEPERMIT NOFEE
DATEINSPECTOR-SANITARIAN

A LOT OF ROCK, REQUIRED A DESIGN SYSTEM SXL NOT SUITABLE FOR CONVENTION SYSTEM.

INSPECTOR-SANITARIAN

COMMENTS:

CERTIFICATION OF APPROVAL

FINAL INSPECTION

DATE 10-2-96 PERMIT NO FEE	
MANUFACTURER JET AEROBIC UNIT & AEA PUMP TANK	
TANK #1 SN#TANK #2 SN#	
SIZE TANK #1 1200 GALS. TANK #2 500 GALS. TYPE CONCRETE	
ABSORPTION TRENCH () LENGTH WIDTH SPRAYED = 5,658 SQ, FT.	
COMMERCIAL () PRIVATE RESIDENCE ()	
INSTALLER OR CONTRACTOR DAJE GRAHAM, SOUTH TEXAS WASTEWAT	بعر
ADDRESS P.O. BOX 1284 BORNE TX 78006 PHONE # 210-249-8098	
DATE 10/2/96 FINAL INSPECTION MADE BY DWar CBODS	
(INSPECTION IS REQUIRED AFTER TANK AND PIPES ARE INSTALLED, BUT NOT COVERED MAKE A SKETCH OF SYSTEM (NOT TO SCALE)	<u>)</u>)
* SEE DESIGN	
22° 840°	

SPENT POUR SOOT DET LEO THE DE

APPLICATION FOR PRIVATE SEWAGE SYSTEM CONSTRUCTION PERMIT AND LICENSE

DATE APRIL 17,1996 PERMIT NO. 2750 FEE 130.%
I, hereby make an application for a license to construct and operate a private sewage disposal system in Gillespie County, Texas.
OWNER CAMP, BEN PHONE NO. 990-8040
MAILING ADDRESS P.O. Box 1458 FBG Tx 78624
HOUSE NO. AND STREET ADDRESS Hwy Z90 WEST FM 2093 SUBDIVISION, DESCRIBED LOCATION OR ATTACH A MAP/SKETCH NAME ABSTRACY 516 M. NARROD # Z19 Lock bottom SIZE ACREAGE OR TRACT 50 SECTION BLOCK LOT CONTROL OF STRUCTURE TO BE SERVED HOUSE (V) Mobile Home () Other Commercial
(Type of Business) Living Area (300) Bedrooms (3) Bathrooms (35) Disposal (/) Washing Machine (/) Dishwasher (/) Water Softner (/) Other Water Supply By: Public System (/) Community (/) Individual (/)
DATE April 17, 1996 INSPECTOR-SANITARIAN DWarp CBODS
Authorization is hereby given to the Private Sewage Facility, Gillespie County, Texas, Texas Department of Water Resources, the Texas State Department of Health Resources, or their agents or designees, singly or jointly, to enter upon the above described property for the purpose of making soil percolation tests, inspecting sewage systems, or for any reason consistent with the water quality program of the Texas Department of Water Resources, the Texas State Department of Health Resources and the Private Sewage Facility, Gillespie County, Texas.
(If signed by Owner, Authorized Agent, Contractor, provide name, address and phone #)
DATE 7 4-17-96 Ben M. Camp. Signature of Owner or Authorized Agent
Authorization to proceed with construction will be provided after a joint (Owner or Installer and Inspector for the Private Sewage Facility, Gillespie County, Texas survey of the proposed site for the facility and analysis of percolation test data) (If Required)
THIS PERMIT TO CONSTRUCT IS VALID FOR 180 DAYS. OFFICIAL USE ONLY
SITE INSPECTION OR PERCOLATION TEST
DATE PERMIT NO. FEE TYPE SOIL - Rocky () Gravel () Sand () Other SLOPE - Flat () Sloping () Other PERCOLATION TEST RESULTS INCHES FALL/20 MINUTES
HOLES (1) (2) (3) (4) (5) (6) (7) (8) PERC. TEST AVERAGE
DATE INSPECTOR-SANITARIAN
A LOT OF ROCK REQUIRED A DESIGN SYSTEM

SXL NOT SUITABLE FOR CONVENTION SYSTEM.

9

CERTIFICATION OF APPROVAL

FINAL INSPECTION
DATE 10-2-96 PERMIT NO FEE
MANUFACTURER JET AEROBIC UNIT & AEA PUMP TANK
TANK #1 SN#TANK #2 SN#
SIZE TANK #1 200 GALS. TANK #2 500 GALS. TYPE CONCRETE
ABSORPTION TRENCH () LENGTH WIDTH SPRAY (RRIGATION) ABSORPTION BED AREA () SQUARE FEET SPRAYED = 5,658 SQ, FT.
COMMERCIAL () PRIVATE RESIDENCE ()
INSTALLER OR CONTRACTOR DAJE GRAHAM, SOUTH TEXAS WASTEWARTEN
ADDRESS P.O. BOX 1284 BARRE TX 78006 PHONE # 210-249-8098
DATE 10/2/96 FINAL INSPECTION MADE BY DWays C. BODS
(INSPECTION IS REQUIRED AFTER TANK AND PIPES ARE INSTALLED, BUT NOT COVERED) MAKE A SKETCH OF SYSTEM (NOT TO SCALE)
* SEE DESIGN
20' RADIUS SPRAT DUMP 500 gal JET
MA. OP OP

SOUTH TEXAS WASTEWATER TREATMENT

Authorized JET Distributor - Home and Commercial - Engineering Services P O Box 1284 Boerne, Texas 78006 * 210-249-8098 or 1-800-86 WASTE

Lillespie Co.

AD D. GRAHAN

PAGE 1 of 3 26 April 1996

JET HOME WASTEWATER TREATMENT SYSTEM DESIGN SPRINKLER SYSTEM

Ben Camp P.O. Box 1458 Fredericksburg, TV 786

Fredericksburg, TX 78624

Survey (50.00 acres more or less) out of M. Narrod Survey 219, Abstract No. 516

Gillespie County, Texas

990-8040

This design includes an attached drawing No. 960405R0 dated 5 April 1996.

Site:

Design Specifications:

Estimated average daily wastewater flow: 3 Bedroom Home Pump tank/chlorine contact chamber capacity: 500 gallons

Design application rate: 0.064 gal./sq.ft./day Average annual rainfall: 30 inches/year

Average annual Evaporation Rate: 70 inches/year

Soil Profile determined: Thin topsoil over caliche/limestone formation

Dosing cycle quantity: 100 gallons

Number of dosing cycles per day: three (3) Type of float switch: mercury float switch Design pressure head: 25 psi at sprinkler head

Total length of supply pipe: 120 feet

Dosing pump capacity: Myers Mod. Rustler pump--12.0 GPM @ approx. 25 psi at

sprinkler

Chlorinator: installed at inlet to pump tank Maximum slope of the field: 2-3 percent Means of preventing syphoning: none

Type of forced main required: 1" SCH 40 with two sprinkler heads

Diameter of supply pipe: 1 inch

Pressure adjusting valves to be installed: one required

Offsets: property lines, wells, easements, water lines, structures, swimming pools, ponds, etc shall be strictly adhered to as required by latest Texas Natural Resources Conservation Commission construction standards.

Pump controls must have NEMA (National Manufacturing Association) approval. A PVC union shall be placed above the pump to allow for easy pump removal.

Page 2 of 3 Camp Spr 26 April 1996

Calculation of field Size

Three Bedroom house --300 GPD effluent flow Assume an application rate of 15.6 square feet per gallon per day.

300 / 0.064 = 4,688 sq ft



If two sprinkler heads were installed that were capable of 2.0 gallons per minute each with a radius of 30 feet. Then the area covered may be calculated:

$$30 * 30 * pi * 2 = 5,655 sq ft$$

Pipe and fittings

All pipes and fittings in this system shall be schedule 40 PVC. All joints shall be sealed with an approved solvent-type PVC cement. The forced main shall be 1 inch in diameter. A Myers Model Rustler (12 gpm) or equivalent high head submersible pump capable of providing at least 6 GPM and providing a 25+ psi head shall be utilized for pumping effluent.

Site Preparation

The area selected for irrigation is already cleared. Very little preparation is required. The area is presently a field covered with native grasses; however, additional seeding with selected grass seed shall be used only if necessary.

Provisions for Emergencies

A warning system shall be added to the pump tank on a separate circuit from the pump circuit to provide warning of a failure of the system. This aerobic system has a 24 month service agreement which includes emergency service(see attached copy of service contract).

Flood Prone Areas

The subject lot is <u>not</u> in a flood prone area according to National Flood Insurance Program FIR Map community-panel Number 480696______.

Tank Sizes

The system shall have a 1200 gal JET Model J-353 extended aeration plant(Plant specification sheet attached) The pump tank shall have a capacity of 500 gal. This tank will not need tees on inlet. All tanks will be installed with elevations as noted on attached tank profile drawing.

Inspections

In addition to the inspections required by the Gillespie County EHD the system shall be inspected by the design engineer at least twice during construction and an inspection report submitted to County officials including an as-built drawing.



This system designed by:

South Texas Wastewater Treatment Oscar D Graham, professional Engineer Registration Number 61171, State of Texas PO Box 1284, Boerne, Texas

Oscar D Graham, PE

26 April 1996

Date

Attachments:

Drawing No. 960405R0 dated 5 April 1996
Affidavit to the Public
Spray Irrigation Pump Tank Attach, "Pressure Dosing Tank"
Service Policy
Rain Bird Sprinkler Performance sheet
Jet Home Plant Specification sheet
Electrical Wiring Requirements
Information for the Builder
Myers Model Rustler Pump data sheet

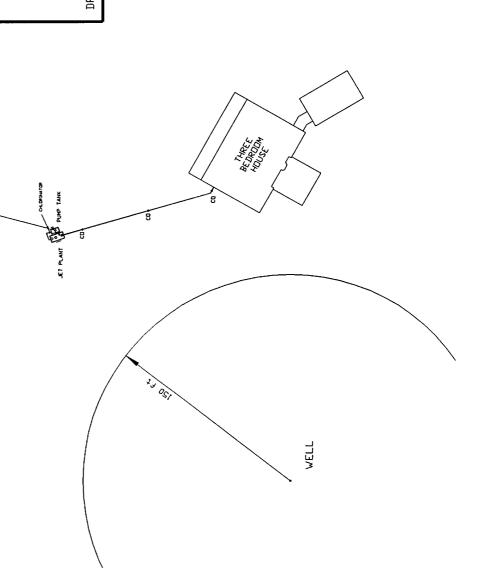
THIS DESIGN MEETS ALL OF THE REQUIREMENTS OF THE TEXAS NATURAL RESOURCES CONSERVATION COMMISSION CONSTRUCTION STANDARDS AND THE REGULATIONS OF GILLESPIE COUNTY AND WILL NOT CAUSE A NUISANCE OR HEALTH HAZARD.

M. NARROD SURVEY NO. 219, ABS. NO. 50,00 acre SURVEY DUI OF THE GILLESPIE COUNTY, TEXAS SYSTEM DESIGN BEN CAMP FOR

DSCAR D GRAHAM, PE 61171 SOUTH TEXAS WASTEWATER TREATMENT B≺

DRAWING NO: 960405R0

DATE: 5 APR 1996





516

RAINBIRD R-50 LA

RAINBIRD R-50 LA

BDERNE, TX 78006 210-249-8098

P.D. BOX 1284