

## OSSF SOIL EVALUATION REPORT INFORMATION

**DATE:** 7/7/11

**Applicant Information:**

Name: Jon Hale  
 Address: P.O. Box 857  
 City: Blanco State: TX Zip: 78606  
 Phone: (832) 229-3618 Fax:  
 Email: jon.hale@att.com

**Site Evaluator Information:**

Name: Douglas R. Dowlearn  
 Company: D.A.D. Services Inc.  
 Address: 703 Oak Drive  
 City: Blanco State: TX Zip: 78606  
 Phone: (830) 833-2218 Fax: (866) 260-7687  
 Email: dadservicesinc@gvtc.com

**Property Location:**

Lot: 42 Unit: Block: Subdivision:  
 Street/Road Address: 1002 Red Rock Rd.  
 City: Blanco State: TX Zip: 78606  
 Additional Info: 4.06 Acres / Kendall County

**Installer Information:**

Name:  
 Company:  
 Address:  
 City: State: Zip:  
 Phone: Fax:

Depth (Feet)	Texture Class	Soil Texture	Structure (For Class III- Blocky, Platy, Or Massive)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
Soil Boring #1 12"	III	0"-12" Clay Loam 12"+ Limestone <30% Gravel	Blocky	No	Yes @ 12"	None
Soil Boring #2 12"	III	0"-12" Clay Loam 12"+ Limestone <30% Gravel	Blocky	No	Yes @ 12"	None

### DESIGN SPECIFICATIONS

Application Rate (Ra): 0.064

Number of Bedrooms Septic System is Designed for: 2  
 180 Gallons per Day used.

Total sq. ft. Living Area: 1400

An Aerobic Tank / Spray Disposal System is to be utilized based on the site evaluation.

2812.5 sq. ft. Absorption Area Required

500 Gallon Septic Tank Required

Calculations: Absorption Area:  $Q / Ra = 180 / 0.064 = 2812.5$  sq. ft.


### FEATURES OF SITE AREA

Presence of 100-Year Flood Zone: NO Presence of Upper Water Shed: NO  
 Existing or Proposed Water Well in Nearby Area: YES Organized Sewage Service Available to Lot: NO  
 Presence of Adjacent Ponds, Streams, or Water Impoundments: NO

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability. The site evaluation and OSSF design are subject to approval by the TNRCC or the local authorized agent. The planning materials and the OSSF design should not be considered final until a permit to construct has been issued.

**Site Evaluator:**

Name: Doug Dowlearn R.S.

Signature: 

License No: OS 9902  
 TDH #2432

**D.A.D SERVICES, Inc.**  
DOUG DOWLEARN  
703 OAK DRIVE, BLANCO, TX 78606  
Designed for: Jon Hale

The installation site is located on a tract at 1002 Red Rock Road. The proposed OSSF will treat the wastewater from a 2 bedroom residence. The proposed method of wastewater treatment is Aerobic Treatment with Spray Irrigation. This method was chosen because of unsuitable soil conditions.

**PROPOSED SYSTEM:**

A 4" PVC pipe will discharge from the residence into a pretreatment tank and then into a 500 GPD Aerobic Treatment Tank. The aerobic tank effluent flows to a storage/pump tank containing a liquid chlorinator and a single 12gpm submersible pump. Distribution is through 2 K-Rain Gear Driven pop-up sprinklers, with low angle (13 degree) spray nozzles spraying a radius of 30 feet of <40 psi. All sprinklers will spray 180 degrees of arc. An audio and visual alarm monitoring both high water and aerator failure will be placed in a noticeable location.

**DESIGN SPECIFICATIONS:**

Daily Waste Flow: 180 GPD  
Application rate: 0.064  
Application area required:  $180/0.064 = 2812.5$  sq. ft.  
Application area utilized: 2827 sq. ft.  
Pump tank reserve capacity: 60 gal minimum



**SYSTEM COMPONENTS:**

SCH 40 PVC sewer line  
1" purple PVC supply line  
500 GPD Aqua Aire aerobic treatment plant with timed controls set between midnight & 5 am.  
Liquid Chlorinator  
Pretreatment tank  
Pump tank

**LANDSCAPING:**

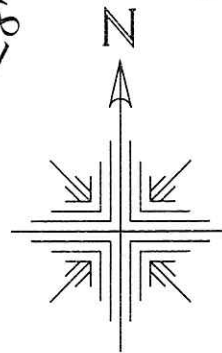
The native vegetation in the distribution area should consist of low level shrubs, plains grass, Bluestem or Bermuda. The entire area of the spray must maintain a ground cover after construction. In the event the natural cover is disturbed, a suitable ground cover must be installed on all excavated areas.

Jon Hale  
 1002 Red Rock Road  
 Lot 42, 4.06 Acres,  
 Kendalia Ranches  
 OSSF in Kendall Co.  
 1" = 150'  
 \* = Test Holes



*Douglas R. Dowlearn*

7/7/11



County Line

500 GPD  
 Aerobic Tank

Proposed  
 Well (r = 100')

2827 sq. ft. of  
 Total Spray  
 Disposal Area  
 r = 30'

Blanco County (6.94 Acres)

Kendall County (4.06 Acres)

2 BR Residence  
 1400 sq. ft.

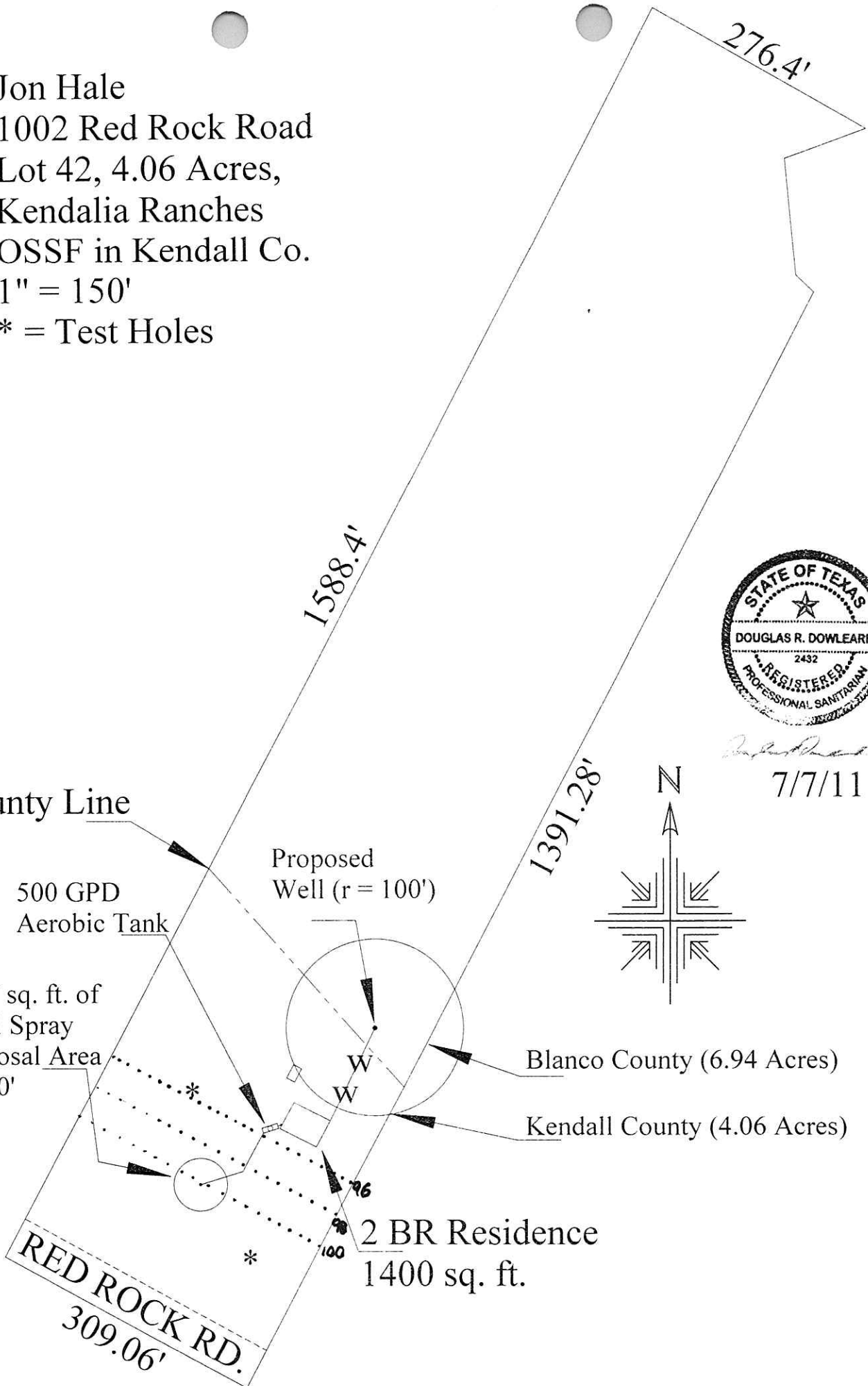
RED ROCK RD.  
 309.06'

1588.4'

276.4'

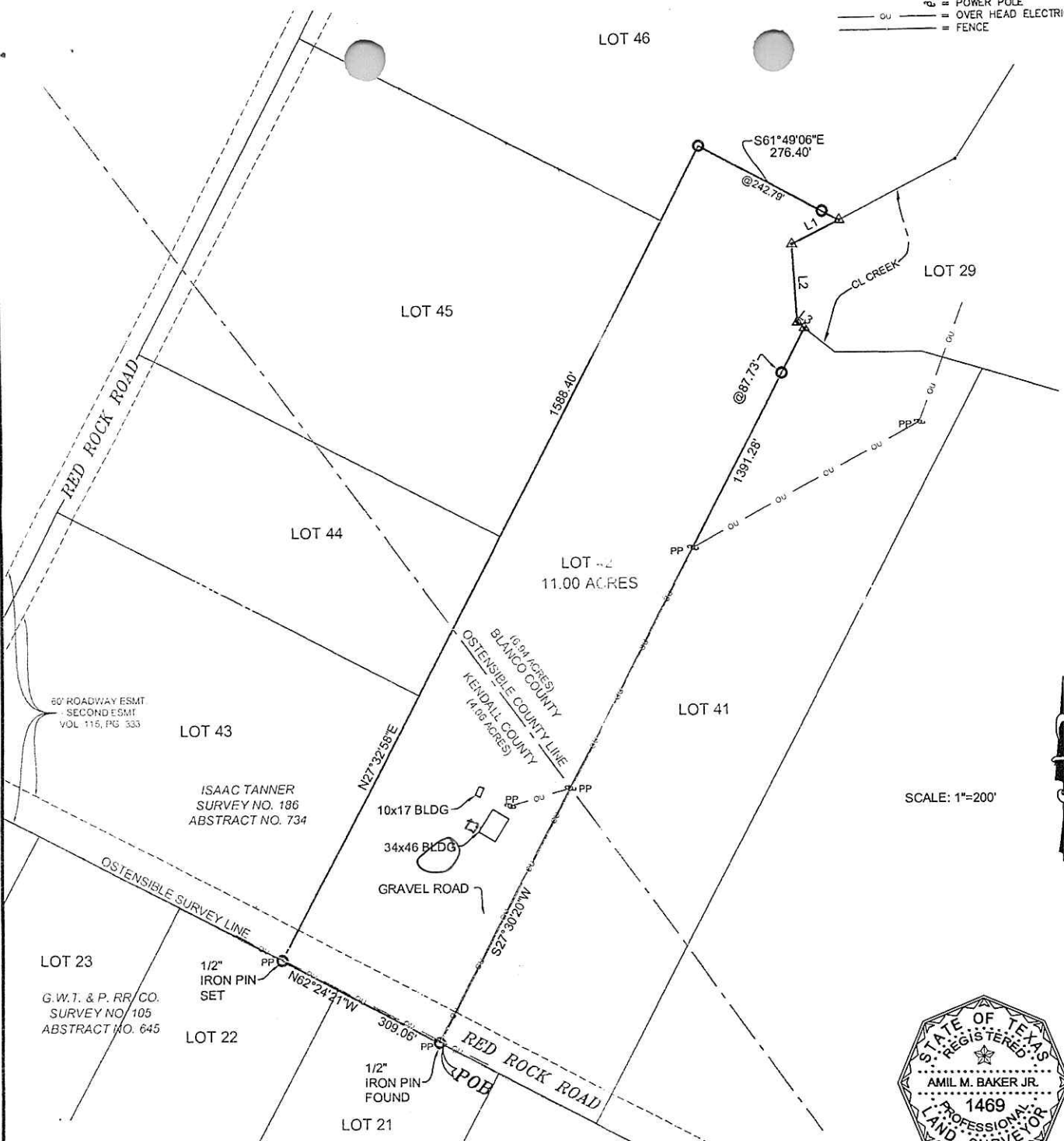
1391.28'

76  
 78  
 100



LOT 46

○ = POWER POLE  
— = OVER HEAD ELECTRIC  
= FENCE



SCALE: 1"=200'



STATE OF TEXAS :  
COUNTY OF BLANCO:

I, AMIL M. BAKER JR., DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM AN ACTUAL SURVEY MADE ON THE GROUND BY PERSONS WORKING UNDER MY SUPERVISION.

*Amil M. Baker Jr.*  
**AMIL M. BAKER JR.**

REGISTERED PROFESSIONAL LAND SURVEYOR NO. 1469  
 SURVEYED: JUNE 14, 2011  
 PROJECT NO.: 11-052 HALE  
 DWG No.: N:\Draw 2011\11-052 HALE\DWG.

**BAKER**  
 SURVEYING, INC.

PH. (830) 833-2250  
 FAX. (830) 833-2257  
 2250 US 281 N.  
 BLANCO TX. 78606

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**KENDALL COUNTY**  
Department of  
**DEVELOPMENT MANAGEMENT**  
201 East San Antonio Ave, Suite 101  
Boerne, Texas 78006  
Telephone: (830) 331-8252

FILE # S 8584

**SEPTIC FORM**

**Private Sewage Facility (Licensed) in Kendall County, Texas**

**APPLICANT INFORMATION:**

Property Owner (Licensee) Jon Hale Installer/Lic.# Homeowner

Subdivision or Location 1002 Red Rock Rd

No. Bedrooms 2 or Sq. Ft. of House 1400 of Gal/Day 180

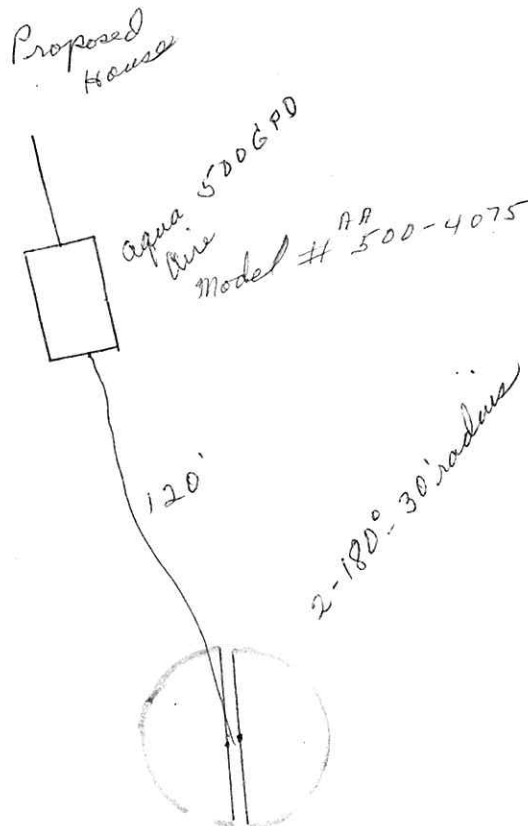
Application rate for surface irrigation .064 loading rate based on soil type \_\_\_\_\_

Class No. III Trench Req. Sq. Ft. 2813 Aerobic Type \_\_\_\_\_

Gallon Capacity Req. for Concrete Septic Tank 500 Aqua Rise

Installed: Length \_\_\_\_\_ Width \_\_\_\_\_  
Sq. Ft. 2827 Bed \_\_\_\_\_ Trench \_\_\_\_\_

Remarks:  
(Sketch of Approximate Distances, Not To Scale.)



The County of Kendall, The Texas Department of Health, or their agents or designees, makes no representation that facilities herein licensed will provide satisfactory service to the premises served. It will be the licensee's responsibility to make any changes or modifications which operating experience may show to be necessary in order for these facilities to provide satisfactory service. Septic distances meet minimum Texas Department of Health separation distances in most instances. Some renovations may be less if repaired or replaced in the same general area as the pre-existing system being renovated.

PERMIT (LICENSE) GRANTED AND APPROVED THIS DATE 7-19-2011

Lenford Jennings  
Designated Representative