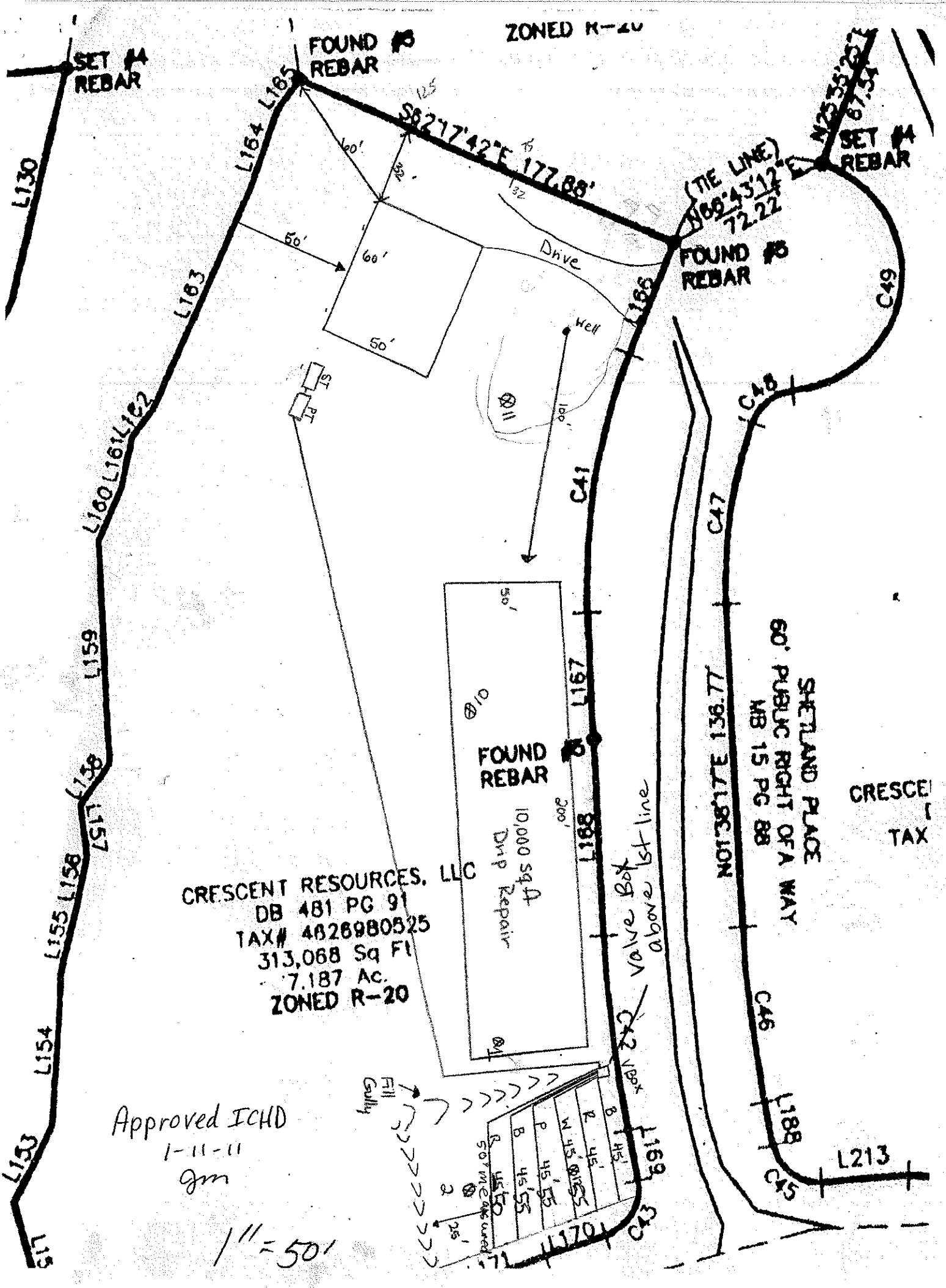

ZONED R-20
FOUND #5 REBAR
SET #4 REBAR
S82°17'42"E 177.88'
(TIE LINE) N68°43'12"E 72.22'
N25°35'25"E 67.34'
SET #4 REBAR
FOUND #5 REBAR
Drive
Well
50'
60'
50'
60'
L130
L164
L165
L163
L162
L161
L160
L159
L158
L157
L155
L154
L153
L151
L166
L167
L168
L169
L170
L171
L188
L213
C41
C42
C43
C45
C46
C47
C48
C49
Ø11
Ø10
Ø9
Ø8
Ø7
Ø6
Ø5
Ø4
Ø3
Ø2
Ø1
10,000 sq ft Drip Repair
200'
180'
50'
CRESCENT RESOURCES, LLC
DB 481 PG 91
TAX# 4826980525
313,068 Sq Ft
7.187 Ac.
ZONED R-20
Valve Box above 1st line
VBox
Fill Gully
Approved ICHD
1-11-11
gm
1" = 50'
NOT TO SCALE
136.77'
SHETLAND PLACE
60' PUBLIC RIGHT OF WAY
MB 15 PG 88
CRESCE
TAX

Tract 4 Beech Tree Road Fast Track Septic System Information

Parcel # 4626980525.002

Number of Bedrooms	4
Basement or Crawl	**Basement w/ Plumbing**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
No. Lines	6 (See Table)
Total Linear Feet	270
Trench Width	2' min.
Trench Spacing	8' min.
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	360' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	30 gpm
Elevation head	Approx. 21'
Pressure head	3.0'
Friction head	5.8'
20% Contingency	6.0'
Total Head	35.8'
Pump Requirements	30 gpm @ 35.8' of head To be designed by installer.
Maximum Dosing Volume	216 gal -2.2 doses/day @ design flow*
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 7.2 min.
Check Valve	Yes
Siphon Break hole	No
Repair System	**Subsurface Drip**
Total Linear Feet	10,000 sqft reserved
Repair LTAR	0.1

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**

Table 1: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	System	Blue	LPPPBPS	45 endfed	793.0	10	10	1 per panel	5/32"
2	System	Red	LPPPBPS	45 endfed		10	10	1 per panel	5/32"
3	System	White	LPPPBPS	45 endfed		10	10	1 per panel	5/32"
4	System	Pink	LPPPBPS	45 endfed		10	10	1 per panel	5/32"
5	System	Blue	LPPPBPS	45 endfed		10	10	1 per panel	5/32"
6	System	Red	LPPPBPS	45 endfed		10	10	1 per panel	5/32"
						Total: 60	Total: 60 (1 in each panel turned up)		
				Total System: 270'					
				Total Repair: XXX'					

1500 *

Tank	Red	~~1000~~ gal (2 compartment)	
Pump Tank	Red	~~1000~~ gal. 1500 *	780.0
House	Blue		780.0

* per Kathleen Saunders

Note: Approximately 10,000 Sqft of repair space reserved for subsurface drip repair area
Elevations are approximate and should be verified by installer before installation
Remove terraces in drip repair area prior to installaton of repair field

Project #:
Property ID #:
County: Iredell

SOIL/SITE EVALUATION

Sheet:

Date Evaluated: 11/13/10, 12/30/10

Owner or Client: Crescent Resources
Proposed Facility: House Design Flow: 480 Property Size:
Location of Site:
Soil Described By: KMS Others Present: APS/TCT
Antecedent Moisture: Weather: 45° F Sunny
Site LTAR: Int. 0.3 Rep. 0.1
Site Classification: PS

panel block says drip Repair

Water Supply: [ ] Public [ ] Community [X] On-Site Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY: Structure/ Texture	SOIL MORPHOLOGY: Consistence Mineralogy	PROFILE FACTORS: Inclusions	PROFILE FACTORS: Matrix Color	PROFILE FACTORS: Mottles	PROFILE FACTORS: Profile Notes (Restr Horiz, Soil Depth, Coarse Frag, etc...)	Profile Class & LTAR
1 Pit	L 11%	0-8	Mo GR SL	FR ns/np		Br			0.15 to 26" LPP or Dnp
		8-12	WK SBK SCL	Fi/FR SS/SP		Yel Br			
		12-26	MA L Sap	FR SS/np	F SCL inc	Br			
		26-30	MA C	F, S/P		Br	C 2 chromas		
		30-42	MA L Sap	FR SS/np		Br			
2 Auger	L 8%	0-5	Mo GR SL	FR ns/np		Br			0.3
		5-30	Mo SBK C	FR SS/SP	F Sap	Red Br			
		30-48	WK SBK CL	FR SS/SP	C Sap	Br Red			
3									
10 ~~4~~ Pit	L 14%	0-8	Mo GR SL	FR ns/np		Br			0.1 to 0.18 LPP or Dnp
		8-18	WK SBK SCL	Fi SS/SP		Br			
		18-28	MA SL Sap	Fi/FR ns/np	C SCL inc	Br			
		28-36	MA SL Sap	Fi ns/np		Br			
		36"	VFi Sap				mafic		
11 ~~5~~	L	0-10	Mo GR SL	FR ns/np		Br			0.1 LPP or Dnp
		10-32	MA SL Sap	Fi SS/np	FF SCL inc	multi			
		32"	VFi Sap						
							mafic		
12 ~~6~~ Auger	L 6%	0-6	Mo GR SL	FR ns/np		Br			0.3
		6-26	Mo SBK C	FR SS/SP	F Sap	Red Br			
		26-48	WK SBK CL	FR SS/SP	C Sap	Yel Red	F Yel Br		

COMMENTS:

Approved ICHD
1-11-11
gm