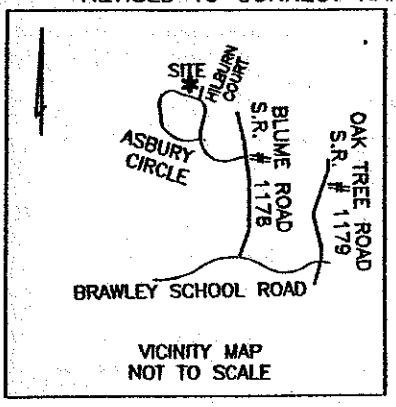
REVISED TO SHOW 18" RCP 2ND AUGUST 1999
REVISED TO CORRECT NAME SEPTEMBER 8TH, 1999

SIGNED _____

R. B. PHARR & ASSOCIATES, PROFESSIONAL SURVEYORS
19901 S. MAIN STREET
CORNELIUS, NC 28031
TEL: 704-895-1730
FAX: 704-895-1864
EMAIL: PHARRNORTH@RBPHARR.COM

CREW	DRAWN	REVISED
C1	TK	JL

REVISED 7-1-02 TO ADD HOUSE.
REVISED 7-2-02 TO MOVE HOUSE TO FIELD LOCATION.



VICINITY MAP
NOT TO SCALE

REFERENCE MAP BOOK 25-9

LINE TABLE		
LINE #	BEARING	DISTANCE
L1	S 70° 58' 00" E	27.19'
L2	N 54° 52' 00" E	22.20'
L3	N 60° 40' 00" E	11.18'
L4	N 69° 09' 00" E	13.00'
L5	S 39° 09' 00" E	28.84'
L6	N 42° 22' 00" E	18.79'
L7	S 56° 53' 00" E	21.84'
L8	S 25° 07' 00" E	14.87'
L9	S 65° 14' 00" E	15.13'
L10	S 57° 15' 00" E	32.74'
L11	N 42° 01' 00" E	37.64'
L12	S 88° 43' 00" E	22.47'
L13	S 82° 32' 00" E	52.89'
L14	S 62° 37' 00" E	35.51'
L15	S 50° 33' 00" E	16.61'
L16	S 72° 44' 53" E	27.78'

CRESCENT RESOURSES, INC.
SECTION 9, RECREATION LOTS
MAP BOOK 14, PAGE 99

LOT 81

LOT 85

PROPERTY CONTOUR

Pool

LAKE NORMAN

E.C.M.

OFF SITE TIE N 69° 44' 37" E 83.45'

R/W

E.I.P.

N 15° 47' 38" W 192.54'

15' SIDE SETBACK LINE

50' LAKE SETBACK LINE

PROPOSED HOUSE

AREA: 22671 SQ.FT. OR 0.5205 AC.

38' FRONT SETBACK LINE

18" RCP

CH=N 86° 28' 04" W 43.68'
R=154.61
L=43.83

171.24' TOTAL

76.25'

S 60° 22' 60" E 173.19'

ASBURY CIRCLE
60' PUBLIC DEDICATED R/W
S.R. #1143

AREA: 37,957 SQ.FT OR 0.8713 ACRE

N 78° 20' 50" W 94.66'

C/L 200' DUKE POWER COMPANY R/W

N 09° 29' 09" W 210.22'

OFF SITE TIE N 31° 35' 13" W 55.00' N.I.P.

CH=N 74° 56' 43.65'
R=386.97
L=43.68

R=20'

S 24° 35' 26" W 77.88'

25' SETBACK LINE

HILBURN COURT
60' PUBLIC DEDICATED R/W

PK NAIL APPROXIMATE C/L ROAD

CH=S 16° 50' 72.92' 49" W
R=50.00
L=81.71

S 25° 47' 15" E 65.12'

LEGEND
E.I.P. = EXISTING IRON PIN
N.I.P. = NEW IRON PIN
E.C.M. = EXISTING CONCRETE MONUMENT
R/W = RIGHT OF WAY
C/L = CENTER LINE
RCP = REINFORCED CONCRETE PIPE

TOTAL AREA:
60,628 SQ.FT.

SURVEY OF:
CRESCENT RESOURSES, INC.
SECTION 9, RECREATION LOTS
MAP BOOK 14, PAGE 99

APPROVED AUG 04 2015

This relocation is to site the tanks where they were originally shown on permit (later changed) to allow for a pool. Only changes to the plumbing will be required. There will be no work at the pressure manifold box or in the field. The owner wants to upgrade the 1000 gallon tank to 1500 gallons while the work is being done. Both tanks must be 50' from the lake by horizontal measure. RLA will locate the setback line. The concrete drive must be removed to accommodate tanks. Because of the depth of outfall from house, tanks must be traffic rated (approximately 36" depth), fall per plumbing code. Drainfield on site plan was taken from'03 permit. Because of current dry conditions, lines could not be probed. The entire field was walked and there was no evidence of active or past failure. Pressure manifold was inspected and is as shown on '03 permit.

DESIGN SPECIFICATIONS
(From 8-5-03 Operations Permit)
165 Asbury Circle

OK TLHD
APPROVED AUG 04 2015
SC

Daily design flow	480 gpd.
Septic tank size	~~1000 gal~~. increased to 1500 gal.
Pumping tank size	~~1000~~ gal. increased to 1500 gal.
Initial system	400' of 25% reduction
Effluent loading rate, Initial system	0.3 gpd/ft^2
Total length and diameter of supply pipe	approx. 130 ft. 2" sch 40 PVC
Number and length of laterals	6 @ 67' end-fed
Trench depth	as installed
Dosing volume	240 gal. – 2.0 doses/day at design flow
Depth 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	as original
Check valve	as original
Siphon break hole	no
Effluent loading rate, Repair system	0.3 gpd/ft^2
Repair system	pressure distribution 50% reduction