

1981

Pet cooking fuel Left tank almost empty
Right tank full unused

Monday
May 11 1981

Len & Carolyn - no problem opening cottage

Meter Reading 213

Heating oil now \$1.48/gal at Central Lake Sunoco - there is no place in Central Lake for home delivery (Korn oil co out of business)

5/11/81 Bought 4 1/2 gal for \$6.66 will last 3 cold days.

5/14/81 More heating oil - 5 gal. \$7.40

Rained Monday (how depressing), Tues. AM 30° temp but Sunny.
a phoebe ^(Bird) has built its nest over bathroom window. Mother
bird is quite upset that we are here. Rest of week warm Sunny but cold
nights.

Replaced Toilet - It looks & works beautifully - Toilet tank pressure valve
Spark plug for mower \$1.69 - Lawn mower works great! \$4.80

Left for home Friday May 15th

1981

Bruce, Rickie, Jessica, & Ethan - ARRIVED ON
SAT. JUNE 13 - The trip up was RAINY & OVER
CAST all the way. The cottage was in
Beautiful shape. Thanks! The weather
was real nice ^{when} ~~where~~ we got here - in
the 80's - ^{went} ~~swam~~ swimming, got sunburned,
etc. Rickie's parents came ~~on~~ up on
Tuesday at about 3:00pm. We had dinner
& played Bridge. The next day we all
went to Charlevoix (early) - ~~when~~ when
we got back, Surprise!! Copy, Mary, &
Kelly were here. Rickie's parents left
right away (which wasn't necessary, but they
wanted to, I guess?) The weather has
been marginal, but much better than
last year. Some of our projects are
as follows:

- we fixed the kitchen sink - had to
dig up the dry ^{well} sink (A 30 gallon drum).
- We bought 15 ft. of drain pipe &
now the sink works great - total cost
approx. \$15.00.

- We bought some towel racks & "re-did" the bath room for better efficiency. The old towel rack will function nicely as a portable unit for drying towels, swim suits, etc. Also, bought a new bathroom rug set. Total cost approx - \$27.00

- Got chain "gliders" for kitchen chairs - cost \$7.64

- Painted metal tables. (front porch) cost \$4.00

- Bought Fire wood (Pete's Wood Service - Bellaire) 1 "cord" delivered \$35.00

- Bought 4 new Air mattresses - \$12.40
Threw Away all of the old "leakers"

- Bought a new tank of Gas. \$26.00

- We rearranged the living room. It is much more conducive to conversation & reading now. If you don't like it, tough shit! (Ha - just joking!)

- Inquired at DeWitts about having the big boat fixed (leaks fixed) They referred us to Robert Edgington in Bellaire who specializes in welding Alum. He's supposed to come out & give us an estimate. We haven't seen any used boats for sale, so far. He came out (Phone 533-6434) and said that it could be welded for approx \$100.00 - we said yes!! - Fixed it in 1 day! 37 holes! \$153.00.

John showed up on Friday. Had a nice feast with plenty of  Beer

Kelly
 Copy + Mary write ; (or print, literally). John, Tom
 and Sandy arrived on Friday 6/2 in the evening.
 The boat was returned with 37 leaks heli-arc
 welded and guaranteed not to sink. The man who did
 the boat, Robert demonstrated a tinning
 agent whereby aluminum can be soldered with a propane
 torch! It is just getting started. His tinning agent
 is an alloy of 28 metals including manganese, magnesium,
 aluminum and aluminum. His demonstrations of heli-arc
 welding and his patented aluminum tinning agent
 were impressive. We bought a kit for future repairs.

I had a feeling things would go well after the
 boat was returned. These fellows repair aluminum
 boats, and when they came to estimate repair of our
 boat I had the feeling they would either turn around
 and leave, or get horny eyes. The latter was the
 case because a boat like ours had never been seen
 by them. Have you ever seen another?

Things went very well. Everything was there and
 ready. John put new grease in the lower unit. I
 checked to see if the motor was free by pulling the
 starter rope. It was. John and I put the motor
 on - (it had been removed for welding) I took the
 battery out of my Pinto for power. The motor
 turned over very fast telling me that starting
 would be easy.

Johnny, Tommy and I rolled it down to the
 beach and launched it. It did not leak. The
 motor started right up. Amazingly, we worked
 out the bugs (literally) in the first voyage out.
 John and I took. How wonderful it was.
 We used old gas siphoned from all the other tanks.
 How fine and unique this boat is. How lucky we
~~are~~ that nobody bought when it was for sale.
 Kelly loves eating sand, and standing at the shore.

~~Copy writes:~~

July 5 - Carolyn, Jenny & B.M.G. arrived 3-30 - Had an easy enjoyable trip. John & girl friend here - How lovely it is to be here and enjoy the beauty of this cottage - Carolyn & Jenny did a mountain of dirty laundry and dried it in the clothes line bright sunshine and a big active breeze dried it fast. After John cut grass it looked better.

Lenny came on Thursday - He cleaned the garage trimmed the grass in front cottage, it chardoned for ants all around the cottage there are no ants creeping around now. The big boat performs very well. (Harvey would be pleased) The rudder on sail boat broke and I took it to Roy Stenke he will make a new one - cost _____.

I got the registrations for the two boats in case the motor gets repaired for fishing boat the Stecher is on boat.

August 17, 1981

I hereby acknowledge
receipt of \$80.00 down-
payment toward purchase
of 12-foot Hydroplane
boat, for a balance owing
of \$70.00.

Received by,

E. Monette

Emie Monette

Acknowledged

John H. Summers

John H. Summers

1981

Pet cooking fuel -

Left Tank in use (almost empty -
order another Tank when empty, don't have to
pay for it when ordering)

Right tank is full

→ Left Tank Still Running John

Right tank is in use
(nearly full).

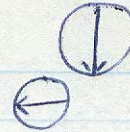
Left TANK is full.

Bance 6-20-81

By The way, I had the PET
GAS LEASE CHANGED to my
NAME INSTEAD OF HARVEY G.

1981

Oven knob is off up & down (line)
is on when line horizontal.



9/4 2-L.P. gas tanks delivered

cost 23.50/ = \$48.88

Right on turned on & in use

9/3 → 9/5 Lenny, Carolyn came to pick up John after accident
9/13 → 9/14 Closed up cottages

meter 255

Best battery



BATTERY WARRANTY

STORE

3720

BATTERY

4340

NAME

ADDRESS

IMPORTANT

KEEP THIS WARRANTY IN GLOVE
COMPARTMENT

6/28/81

1982

Electric meter 25.5 1/2 5/14 → 5/16 Lenny & Carolyn
Right Pet gas tank turned on, in use
no problems opening cottage

Bruce, Rickie, Jessica, Ethan, and Dawn Barrett -
Arrived to a beautiful cabin on June 24th.
We put the dock up on the 25th - it was
54°F. From then on, it's been the most
beautiful weather I've ever seen up here -
9 straight days of sunshine in 75 to 85
temp. range (it rained one night).

We had Woodland Oil Co (Roger Crandall
from Bellaire) fill up the oil tank -
48 gal - \$64.38 - That should hold us
for a couple of years.

Put the big boat in and it ran great -
I even got to water ski again! We
were going to ~~take~~ take a boat ride down
to the Bellaire end of the lake, but the
motor conked out when we changed gas tanks
(I discovered later that somebody (cuss-cuss) had
switched the gas line on the tank so that
the fuel/air lines were switched) Thanks a lot!

~~Since the~~ While we were conked out, a guy
named Gary towed us back home - when I
told him we were from Ohio, he said that
he had "towed" two guys from Ohio who had flipped
a hydro plane 5 or 6 years ago" - we laughed
about that!

Since the 7.5hp motor hasn't been operable for
the last two years; I grabbed the bull by the
horns and took it to DeWitt-Marine for
repair - the gears (upper shaft) are screwed up.
After they tore it down, they advised that
it will cost \$125⁰⁰ ^{for parts} and labor will be approx.
\$100⁰⁰ (A new 7ph motor cost approx \$850⁰⁰).
I told them to go ahead and fix it. (I

B, R, J, & E cont'd. June 24th to July 4th
(I gave them a down payment for \$125.00 - The rest to be paid when we pick-up the motor.)

Bad News - The new battery for the "Big Boat" is probably no good anymore - the Acid was dumped last year when the cabin was closed for the winter. I had it refilled with Acid at Boyne Auto in Bellaire, but the guy said it probably was shot - I guess he was right; because it wouldn't take a charge - ~~and~~ I suggest that you try taking it back to SEARS - perhaps they'll give us a partial refund ~~for~~ toward a new battery - If nobody does anything, I'll buy a new one next year. P.S. - It isn't necessary to dump it - it won't freeze -

Had to take Ethan to the hospital!
(Traverse City) because he was having great difficulty breathing - weezing)
He apparently had a bad chest cold -

Last minute bullitin: The spring latch on the back door broke just before we left - no stores open! Also, while I was taking the big boat for its final spin, the idle adjustment works its way loose, so it needs to be adjusted.
Good Luck!

Lizzie & Kere July 6 to July 16th
Theresa & Greg " " to " " 11th

Trip up here was hot. We pulled our Catamarran with our brat, it did fine but... got less gas mileage. It sure feels good to be in these parts again.
We sailed a lot and got one good day of skiing in. When we were out something in the 35 Hp Evinrude →

Spronged. Kere and Greg brought it up and took it apart. Kere thought he found the answer but, no cigar. He bought two parts, the shifting dog and the arm. Those parts were badly worn but were not the main problem. He knows the problem is somewhere at the base of the engine. He tried to get to that area but, could not budge the screws. That motor has probably never been looked at inside, for one reason, the way all the screws were and, the gear housing which should be filled with grease but was bone dry. A rubber wheel that draws water into the engine, for cooling was missing a few blades, 3 out of 5 ^{were} gone! We are really lucky it had a minor breakdown because, it could have had a Major Burn Out!!!

7-14-82 We took it to Dewitts and hopefully it won't cost an Arm A leg and a weiner! They were still waiting for parts to the small engine.

Beside all of that, our stay was really nice. It seemed real quiet and lonely after Theresa and Greg left but, we got over it. I gave the whole cottage a good mopping but, it seems that most of the dirt is waxed down.

We hate to go but, its back to the old grind.

BEWARE OF THE Black Vampire Gnats ... Bats

Kere's neck looked like it was covered with marbles!!

The stove has a leak, to tighten it up, you loosen another fitting! It needs a new pipe for behind it. Leak has tape on it, to mark it.

HAVE A NICE Stay, We Sure did!! Kere & Liz

PS... Guess who's going to be a Momma ???

1982

July 22-25

Sandip, Tom, Heather & Quinlyn
Had a enjoyable stay. The weather was beautiful. We got burnt. Saturday was great for sailing. Suggestion on stove try using Teflon tape to seal leaks. Sorry that I didn't do it, I've just thought of it.

August 30 - Sept. 10 1982

Cory, Mary, Kelly, and Harvey III (Bo), came up to the most spottless cottage I've yet seen after all these years. Someone put in a lot of work cleaning the refrigerator and sink cabinet. Thanks.

We got the ^{1.5 HP} Motor on Tues. 9/31 and it runs its usual way - smooth, easy to start. However the small boat seems to leak significantly in the rear portion, at times. Here are the items I have attended to while here.

- ① Stove - there was slight leaking at the valves. I cleaned and tightened them eliminating the odor - I checked the other connections with soapy water, and they are tight. The problem seems to be solved. I found no leaks behind the stove. The odor is gone.
- ② Frying pan I'll never give up on this sucker! I repaired it again and bought a new cord for it. What was happening is that the connection at the handle was rusty and loose causing resistance in the circuit and thereby, heat, which burned the plastic handle.
- ③ I sanded stained and varnished the doors to the bath and utility rooms. Also, the sill to the kitchen window.
- ④ I spray painted the kitchen sink cabinet. (You can probably guess how the weather ~~has~~ been with all these inside projects)
- ⑤ Repaired the TV antenna - new guy wires, ~~add 5 to~~

5891
mast, install an old rotor I had around the house
~~added~~ a signal booster to help reception, and replaced
the lead in-wire. Even though TV is not a big item
here I was able to dispose of the items above that
I didn't sell at my porch sale! Also, reception is
improved, ~~maked~~ for those times when TV is your
last resort. Bring your color portable. 8/8/82 (I couldn't
do the rotor on the antenna we have, but I put up the signal
booster-and guy wires. The rest of the stuff is in
the garage.

The weather has been marginal. It went up to 60°
once, and the sun broke through a flaw in the cloud
mantle for 5 minutes one day.

Kelly has had a wonderful time, however. She will go
in the water when it is 50°. The ducks and swans
like her and get closer to her than ~~that~~ to us.

⑥ Grill (Hibachi) I took it home to clean and
repair it. It's worth it because you can't get
those anymore. It needs cleaning and coats of
high-temp paint to stop the rust on the outside,
and varnish on the handles, and replace the draft
assembly.

Note - The small boat stopped leaking after being in
the water a couple days. The weather was too
poor (wet) to varnish the seats etc.

Things I couldn't get to:

- ① Left Kitchen picture window casement crank
stopped working. The entire window unit
has to be removed to replace it.
- ② The small boat needs the screws in the
stern replaced. It is loose and wobbles with
the motor on it.

I saw an advertisement in the "Shoppers Guide" for an original
condition 1936 Hudson Terraplane. I drove to see it in

Rodgers City (?) (about 40 miles north of Alpena) on the "East Coast" The car is all original 45000 miles - beautiful. I bought it.

I left the badminton (sp?) set here - find it in the boat house.

The battery appears to have recovered, ~~and~~ ^{it} took and held a charge. I took it home with me for further tests, I'll be in touch about it.

Thurs Oct 15-16-17th Closed cottage Len & Carolyn

Electric meter Reading 28.4

Right pet gas was in use

Showered off on all day Saturday

1983

Fri May 13th Meter Reading 28.4 1/3 70° temp. beautiful

Right Pet Tank Turned on

Sat. May 14th Rained all day also got cold - 15°

Planted 25 maple seedling trees on outer side between borders

Spruce trees. Maybe 5 will survive & in 50 yrs the cottage will be shaded. Also washed all dirty sheets & towels.

Sun May 15th AM temp 37° but sunny, a cold but beautiful day.

Nothing but nothing is open on Sun this time of year. Went up in woods & dug some Jack-in-the-pulpit, Lady slippers, trilliums, violets, wild geraniums, adder's tongue, and 5 or 6 others I don't know their names.

Mon May 16th Headed home

New purchase for cottage electric blankets

2 - twin bed & (Brown color)

1 dual control double one (tan color)

tried out the twin ones &

they worked great.

May 20-22 John + Dave Gibson.

Upon arrival, the weather was rainy and overcast at about 45°. It did clear up Sat. afternoon until the evening time, then Rain again → Oh well. Needless to say I did not have time to put up the dock as I had originally intended. Overall, Dave + I had a quiet weekend of just kicking back.

Points of Interest:

- 1) I went to DeWitt's to drop off the Merc 20 HP.; apparently they had recognized me from previous encounters and said that they would do me up right this time. Hopefully I would get more than 3 hrs. operation per visit.
- 2) The 35 HP. motor is ready to roll; just give them an advanced call so that they can fire it up once → We will ski once again!!
- 3) WARNING: Beware of the oil burner! I had it cranked on high when I woke up to the smell of smoke. I then immediately shut it off at the control + tank to allow the remaining oil to burn off. In the mean time, smoke was pouring out at a substantial rate. It took about a 1/2 hour to burn off. I checked all connections and seemed to be intact. Beware of this in future use.

June 27 - July 9, 1983 Mary Cope, Kelley and Thing, + Stephanie
The first night we were here the temperature dropped to 38°, and it was 48 in the cottage. Woke up at 4:30 am to light the heater.

7-1-83 - The Heater. It was totally full of soot, and crusty carbon - the soot balls rolled all over the floor after a wind. I cleaned it out, saving a sample of the contents which you will find on the mantle, (or somewhere).

We brought a neighbor girl, Stephanie Drake with us to help with the children. She is 14, and seems to be enjoying her stay thoroughly - a help to Mary too.

The cottage was immaculate upon arrival. I anticipated sweeping flies, but they were gone.

I brought two bicycles which Bruce bought expressly for

The cottage. They are nice bikes. I did some bicycle mechanical work a professional would become too jaded to care about. On the black bike, I tightened the fenders, brakes, and tightened the front wheel bearing. On the red one I had to regrease the pedal crank bearings. There was a substantial amount sand in the bearings. They are smooth now. That is just the kind of farting around which I find so therapeutic.

I put up the dock with a little help from the girls - Mary and Stephanie, but I frankly missed working with Bruce on it because we are synchronized when we work together on it and it only takes a half hour.

I picked up the 35hp Evinrude and brought it back. I need men to help me put it on the boat and get that boat to the lake. I had to turn into the Hulk to get it out of the trunk.

Lizzie, Kere and Karla, July 3rd to July 13th

The trip up was great, we left at 12:15^{AM} and got here at 10:15^{AM}. The baby traveled real well, she slept 9 of the 10 hours. We had a great time with Copy, Mary, Stephanie, Kelly and thingy. We really got to know some people, that we thought we knew. We feel extra close to them now.

Stephanie got a crush on Kere, and of course I got jealous.

The bikes are great, we really have enjoyed having a new activity. We should get baskets for the trips to town.

Kere, Stephanie, Kelly and I went to the fireworks at Central Lake, it was real neat. We made one trip to Charlevoix, Copy stayed home with little Harvey and Karla and did laundry all day. Thanks to Southern Comfort, we had some high flying evenings and a few slow mornings. They all left on July 9th and Bruce and Ricky, got here the same day. JESSICA

ETHAN BROUGHT A FRIEND ALONG WITH THEM, HER NAME IS DAWN AND SHE HAD COME UP WITH THEM LAST YEAR. WE TOOK THE SEMI-FLOATING DOCK OUT, IT WAS A LITTLE LOOPSIDED BUT STILL A LOT OF FUN AND A NICE PLACE TO CATCH SOME RAYS.

We did plenty of waterskiing, Bruce sure hasn't lost his touch. It sure is nice having a motorboat again, even though it has been knick named, "The Swiss Cheese."

We had some real fun evenings playing cards with B.G.R. We never thought it possible but, we are looking forward to going back to Ohio. Kere's little brother Vince will be on leave from the Airforce. He has never seen Karla because, he is stationed at North Dakota. It will be real nice to see him again. We have had a beautiful stay, thanks to the family and Northern Mich. we love it here!

PS. Little Harvey should be real smart now, since he ate so many smart pills out of John's boat. Watch out for leaves on the floor!!! HA HA
To be continued next year... Lizzic, Kere and Karla Anne

Bruce, Rickie, Jess, Ethan, AND DAWN
Barrett - July 9th to July 28th ^{High 90's}

The weather has been very hot & dry for the entire two weeks. We had a very light rain on Thurs 26th and then it cleared up. Things are very serious for the farmers... the crops need rain badly. We never had to use the heater once, but we did use the fans (even that little old black gen).

Big boat - works great; been doing a lot of skiing. It was leaking pretty bad when we got here (had to empty it 3 times a day), so I put it on the trailer and putted it up on the beach. I then took out all the stuff and filled it with water from the hose. I found six leaks. I then drained the boat and fixed the leaks with the ALUMABOND - that stuff works great! (Had to buy a propane torch).

1983

After that the boat didn't leak at all. However, after using it for several days, it did start to take on some water — need to drain it about once every 3 days. Next year, I'll do the same routine again — sooner or later all of the rivets will need to be "welded". I think we should get one of those boat racks so that we can leave the boat down on the lake, so that everybody can use it with minimal hassle.

Bikes - got both of them for \$75⁰⁰ -! Copy really fixed them up. The trip to Central Lake is fine.

- Bought some new MASKS & swim fins and air mattresses. Also donated some inner tubes (from my MG). Bought a foot pump.

Swim Dock - Lizzie & Kere put out the swim dock which blew my mind since I considered it to be a total loss. At any rate, I got all charged up, and decided to fix it up. The hardest part was flipping it over so that I could paint the drums. Only one of them leaked which I soldered. Painted them with Rustolium rusty metal primer and Alum Rustolium. The side boards were pretty bad (rotten & infested with ants) ~~and~~ dug out the rotten wood & chloradaned it. Put new facing boards, new ladder, & hardware on. Painted - Works great!! Thanks to Lizzie & Kere for the inspiration. Total cost - approx \$70⁰⁰ -

Jess & Ethan helped paint.

Bought fire wood - \$37.00. Stacked it in garage.
Window crank - what a bitch! Kere and I started work on this. Ordered a universal crank from Bellaire Hardware #1239. I put it in - had a hell of a time - I kind of half assed it since I could ^{not} get screws into the bottom. To fix it right will require removal of the window or removal of the window sill from the inside (I was going to do the latter, but I had visions of breaking the big glass window, so I didn't try).

We took a side trip up to MACKINAC. Saw Fort Michilimackinac - got a motel in St. Ignace. Visited Sault Ste Marie the next day - saw the locks - stopped at a beach on the Canadian side so we could cool our feet in Lake Superior.

Jessica added a bunch of rocks to the jetty.

The weather has been incredibly beautiful but so hot! Counting last year we had 21 straight days in Michigan without rain!!! Even the rain that broke the streak was just an AM shower with sun in the afternoon. We decided Dawn must be a good weather luck charm!

Lizzie & Kere had the cottage in beautiful shape when we got here and clean linens on the beds, too! That was really great after a long trip.

Only took on one small project (besides

helping flip the swim dock along with Dawn + the kids) and that was to go through the dresser in the back bedroom + sort out the sheets + sweep underneath (shiver, shudder) + to go through the mountain of pillows, blankets, bedspreads, ~~the~~ + quilts in that cupboard, + sweep under there, too (not as shivery-shuddery as the other). I managed to get everything back in there, except one large quilt which I put in that chest under the bed.

Ethan got off on snorkeling this year, and he found this thing under the dock, stuck fast to a rock. It was speckled and slippery and stretchy. Tizzie thought it must be some sort of giant leech. Whatever it was, it was really gross! The kids also came up with a snapping turtle from the ponds. Fortunately, they picked it up with a net and not with their hands! We returned them both to their natural habitat, hoping not to re-encounter them.

Dawn + I tried water skiing - and we both got up! Still need some practice before we're ready for Cypress Gardens, however...

July 23 to 30 1983
Janice and Grinda were at Cottage -
(Cliff)

August 5 to 12 1983
Wed Aug 10 - 1983

Carolyn, Jenny and I arrived at 4:00 p.m. everything lovely - looked beautiful to me - I hadn't been here since 1981 - We brought George along. He ventured out of the cottage on Tues. that is walked down to the lower lawn but hasn't been near the lake - I guess he can't figure it out. He walks the rafters and sleeps on the stored cots - doesn't bother us at night any more.

Central Lake is celebrating its Centennial Celebration this week and have had interesting programs every day. Carolyn and Jenny went swimming on two hot days Sat. and Sunday. Charlevoix beekond on Monday, Brown wood on Tuesday. Saw Return of the Jedi and we all ate a box of pop corn - and a quart of Balthuspean Ice cream - purchased at Tom's on way home. Wednesday morning brought cool air and then rain which has continued all day. Carolyn as usual, has cleared out at cupboard and it is very pleasing to open the door. also she cleaned that repulsive shower stall and it is now not repulsive. I'm here not doing anything and enjoying every minute - and loving this place. - Mother -

August 13 to 20 1983 - 8/2

Sandy, Tom, Heather & Quinlyn.
Had a great time, the weather was nice
it rained Sunday & Wednesday. The kids made
good use of the raft. They were jumping off and
swimming like a couple of fish. fishing
was good. (the kids and I caught about 20
fish mostly bass, the fish were big too
(unbelievable). The best spot is where the
raft is, the front of the cottage and off the dock.
I caught a 3 1/2 bass & 3" perch from the dock.

The ducks and swans were extremely hungry
the ducks were coming to the door for food. the
swans were brassy, they were hissing at you
before during and after you feed them. It seems
that they were trying to tell you something or just
being a pain. any ways it was something.

It was really relaxing up here and Sandy
and I are ready to attack the world again.

Tom

Sept. 8 → Sept. 18

John, Dave, Mary & Stephanie.

We flew into Antrim county Airport in a Record breaking 3 hrs. From Columbus. We made our way around by boat. Saw all types of weather this week, but mostly Sunny & windy.

The cottage was beautiful!

Oct. 14th - 15th - 16th

Len - Carolyn - Zig

Fri. 14th drove up rainy, extremely windy, cold.

Thank goodness for the wood in the garage may the angels smile on Bruce for getting it during the summer.

Sat. - 15th Beautiful sunny day - Roof tarred for leaks over Hot H₂O heater & leak in middle bedroom

Meter - 31.5 - left Pet tank empty needs reordering in spring 1984

Headed home Sun Oct 16th

The space heater takes #1 oil I am sure we got 50 gal. of #2 oil delivered to us in 1981 or so. That was the reason for our "pipe" problems.