

NATIONAL MUSEUM OF THE PACIFIC WAR

THE NIMITZ MUSEUM

PRESENTS

AN ORAL HISTORY BY

DEAN R. WOODWARD

INTEVIEWER - WILLIAM G. COX

TAPE NUMBER 1274

I AM DOING AN INTERVIEW WITH, ACTUALLY RETIRED ARMY COLONEL DEAN R. WOODWARD WHO SERVED DURING WORLD WAR II IN THE MARINE CORPSS. WE ARE DOING THIS ORAL HISTORY IN THE FREDERCKSBURG INN AND SUITES IN FREDERICKSBURG, TEXAS. THIS INTERVIEW IS IN SUPPORT OF THE CENTER OF THE PACIFIC WAR STUDIES, ARCHIVES FOR THE NATIONAL MUSEUM OF THE PACIFIC WAR, TEXAS PARKS AND WILD LIFE FOR THE PRESERVATION OF THE HISTORICAL INFORMATION RELATED TO THIS SITE.

GOOD MORNING MR. WOODWARD. HOW ARE YOU TODAY?

DEAN R. WOODWARD

I'M FINE SIR.

WILLIAM COX

WHERE WERE YOU BORN?

DEAN

ENGLISH, ARKANSAS. IN SOUTH CENTRAL ARKANSAS, A LITTLE TOWN THAT DOESN'T EXIST ANYMORE. A LITTLE COUNTRY TOWN.

COX

IN WHAT YEAR WAS THAT?

DEAN

IN 1924.

COX

AND THE NAMES OF YOUR PARENTS?

DEAN

RUFUS E. AND CORA E. WOODWARD.

COX

WHERE ARE YOU LIVING TODAY?

DEAN

I'M LIVING IN PITTSBURGH, TEXAS.

COX

WHERE DID YOU BEGIN SCHOOL?

DEAN

HERMITAGE, ARKANSAS IS WHERE I SPENT MY FIRST GRADE. I WENT BACK AND FORTH BETWEEN ENGLISH AND HERMITAGE. WE WERE ABOUT HALF WAY BETWEEN THE TWO TOWNS AND SO I COULD JUST ABOUT TAKE MY CHOICE WHICH SCHOOL TO GO TO. I FIRST WENT TO HERMITAGE AND THEN BACK TO ENGLISH AND THEN BACK TO HERMITAGE. IT'S KIND OF HARD TO SAY. MOST OF MY YEARS I GUESS, WAS AT HERMITAGE.

COX

WHERE DID YOU FINISH HIGH SCHOOL?

DEAN

I DIDN'T. I DROPPED OUT IN 1941 AND STARTED TAKING VOCATIONAL EDUCATION CLASSES IN LITTLE ROCK, AR.

COX

DID YOU HAVE ANY FAVORITE TEACHERS DURING THAT SCHOOLING.

DEAN

I SURE DID. MR.BENCE (????) VAUGHN. HE WAS THE PRINCIPAL OF THE SCHOOL AND A TEACHER THERE AND WAS ONE OF THE MOST BELOVED MEN IN ENGLISH, AR. I REMEMBER HIM FONDLY.

COX

DID YOU HAVE ANY PARTICULAR CLASSES OR STUDIES THAT YOU ENJOYED MORE THAN OTHERS?

DEAN

SCIENCE. SCIENCE WAS MY FAVORITE SUBJECT.

COX

WAS THE PRINCIPAL YOU WERE SPEAKING OF TEACHING SCIENCE?

DEAN

NO. THAT CAME LATER, SCIENCE STUDIES CAME LATER AFTER I WENT BACK TO

HERMITAGE. SCIENCE WAS THE SUBJECT I APPRECIATED MOST AND I DID BEST IN.

COX

THE FACT THAT YOU MENTIONED THAT YOU DROPPED OUT BEFORE YOU GRADUATED, DID WORLD WAR II HAVE SOMETHING TO DO WITH THAT?

DEAN

NOPE. I DROPPED OUT BEFORE PEARL HARBOR STARTED . THIS WAS NOT ANYTHING TO DO WITH THE WAR. I WAS JUST NOT DOING WELL AND I FELT LIKE I WAS WASTING TIME, SO I DECIDED TO DO SOMETHING THAT I REALLY WANTED TO DO, WHICH WAS TO STUDY RADIO. THAT STUDY LED TO A LIVETIME COMMITMENT TO THAT TECHNICAL FIELD. I FEEL THAT I AM STILL WORKING AT IT TODAY. I'M STILL A RADIOMAN ALL THESE YEARS LATER.

COX

STILL LEARNING A LITTL BIT ABOUT IT.

DEAN

I LEARN SOMETHING EVERY DAY.

COX

WHERE WERE YOU WHEN PEARL HARBOR; WHEN YOU FIRST HEARD ABOUT PEARL HARBOR?

DEAN

I WAS IN LITTLE ROCK, AR. I WAS WORKING AT A SERVICE STATION IN THE DAYTIME , GOING TO RADIO SCHOOL AT NIGHT. I WAS WALKING DOWN THE STREET AND SOMEBODY HAD A PAPER THERE AND I SAW THE HEADLINES. THAT IS WHEN I BECAME AWARE THAT WE HAD BEEN ATTACKED.

COX

WHAT DID YOU THINK ABOUT THAT AT THE TIME, EMOTIONALLY?

DEAN

IT WAS HORRENDOUS, ABSOLUTELY HORRENDOUS, UNBELIEVABLE THAT THEY WOULD DO THAT. ANYWAY, I DIDN'T DO ANYTHING IMMEDIATELY. THAT WAS OF COURSE, IN DECEMBER. BY APRIL, I HAD DECIDED THAT I WANTED TO GO IN THE SERVICE, SO I JOINED THE MARINE CORPS, WITH MY PARENTS PERMISSION. I WAS ONLY SEVENTEEN.

COX

AND WHEN YOU WERE ACCEPTED, WHERE DID THEY SEND YOU?

DEAN

TO SAN DIEGO, MARINE BASE SAN DIEGO.

COX

WAS THAT YOUR BOOT CAMP?

DEAN

BOOT CAMP, YEAH.

COX

HOW OLD DID THAT BOOT CAMP LAST?

DEAN

EIGHT WEEKS, I THINK. 7 OR 8 WEEKS.

COX

WAS IT PRETTY TOUGH TRAINING.?

DEAN

IT WAS VERY RIGOROUS.

COX

WHAT DID THEY CONCENTRATE ON?

DEAN

DEVELOPING SOME DISCIPLINE, I GUESS. WAS THE MAIN THING THEY WERE TRYING TO DO. THAT AND TOUGHEN US UP PHYSICALLY. WE HAD TO GET CONDITIONED. YOU KNOW WHAT I MEAN TO BE IN THE MARINES. SO, IT WAS VERY RIGOROUS TRAINING. WE SPENT AN AWFUL LOT OF TIME IN THE BOONDOCKS, WALKING.

COX

WHEN YOU FINISHED THE BOOT, THEN WHERE DID THEY TRANSFER YOU TO

DEAN

WELL, I REQUESTED----- I HAD GONE IN WITH A REQUIEST THAT I BE ALLOWED TO SPECIALIZE IN RADIO AND THEY ABIDED BY THAT. THEY PUT ME IMMEDIATELY IN THE RADIO SCHOOL THERE IN MARINE CORPSS BASE IN SAN DIEGO. I DIDN'T HAVE ANY WASTED TIME AT ALL. I WENT TO RADIO SCHOOL.

COX

WHAT DID THAT RADIO SCHOOL CONSIST OF?

DEAN

IT WAS MAINLY TEACHING US HOW TO SEND AND RECEIVE MORSE CODE AND HOW TO OPERATE RADIOS. MOST OF THE CONCENTRATION WAS ON LEARNING CODE.

COX

WHAT TYPE OF RADIOS WERE YOU WORKING WITH?

DEAN

AT THAT TIME, WE WERE USING ONLY CODE MODULATERS, JUST SO YOU COULD LEARN TO COPY CODE. LATER, WE WORKED WITH TACTICAL RADIOS, MAINLY CONTINUOUS WAVE C W RADIOS.

COX

ABOUT HOW LONG DID THAT TRAINING LAST.?

DEAN

I'M TRYING TO THINK. I WOULD SAY, TWO MONTHS. THAT WOULD BE OF THE RIGHT ORDER AND MAGNITUDE, ABOUT TWO MONTHS, MOST OF THE SUMMER. WE WENT OVERSEAS IN NOVEMBER. THAT WAS IN APRIL, SO IT WOULD HAVE BEEN MOST OF THE SUMMER.

COX

WERE YOU ASSIGNED TO A PARTICULAR UNIT IN THE MARINE CORPS AT THAT TIME?

DEAN

YES. I FINISHED THE RADIO SCHOOL, LEFT AT CAMP ELLIOT AND WAS ASSIGNED TO THE 18<sup>TH</sup> MARINES, 2<sup>ND</sup> BATTALION, 18<sup>TH</sup> MARINES.

COX

YOU MENTIONED IN NOVEMBER, WAS THAT WHEN YOU WENT SHIPBOARD?

DEAN

WE GOT ON THE SHIP AND LEFT IN EARLY NOVEMBER FOR NEW ZEALAND.

COX

OK. WAS THERE ANY INTERMEDIATE STOPS BETWEEN THERE AND NEW ZEALAND?

DEAN

DIDN'T EVEN SEE SIGHT OF LAND DURING THE 21 DAYS IT TOOK TO GO FROM SAN DIEGO TO WELLINGTON. THEY MADE SURE WE DIDN'T GO CLOSE TO LAND.

COX

OK. WERE YOU IN A CONVOY?

DEAN

A VERY SMALL ONE. A SMALL CONVOY. WE WERE ON THE *PRISIDENT MONROE* A CONVERTED LUXURY LINER. IT WASN'T ANY LUXURY LINER AT THAT POINT. THERE WAS DESTROYER ESCORT IN PART OF OUR GROUP AND A FREIGHTER AND STANGELY ENOUGH, I STILL REMEMBER THE NAME OF THAT LITTLE FREIGHTER. IT WAS THE *ROTTERDAM WALTER BRADEN*. (*DIFFICULT TO UNDERSTAND*)

COX

IT MUST HAVE BEEN ALONGSIDE PRETTY FREQUENTLY.

DEAN

FREQUENTLY. IT WAS ALONGSIDE. I SAW THE NAME ON IT AND IT STUCK IN MY MIND. FOR SOME REASON OR ANOTHER ALL THESE YEARS IT STILL STICKS IN THERE, THE *ROTTERDAM WALTER BRADEN*.

COX

SO, YOU ARRIVED ----- HOW LONG DID THE TRIP LAST?

DEAN

TWENTY ONE DAYS.

COX

ALMOST A MONTH. SO, WHEN YOU GOT TO NEW ZEALAND. WHAT ACTIVITIES, WHAT TOOK PLACE?

DEAN

I'LL TELL YOU WHAT. WE PULLED IN TO WELLINGTON HARBOR AND THAT WAS THE PRETTIEST SIGHT I HAVE EVER SEEN IN MY LIFE. TO BEGIN WITH, WELLINGTON IS A BEAUTIFUL HARBOR AND SEEING LAND AND GREEN AFTER ALL THAT TIME ON THE OCEAN, IT WAS A GREAT THRILL.

COX

SO, WHAT TYPE OF TRAINING DID YOU GET IN NEW ZEALAND?

DEAN

WE WERE THE REAR ECHELON OF THE 2<sup>ND</sup> MARINE DIVISION. MOST OF THE DIVISION WAS AT GUADALCANAL AND TULAGI. WE CAME IN AND HELPED SET UP THE CAMPS BECAUSE WE HAD TO HAVE A PLACE TO MOVE THE PEOPLE TO COME BACK TO. THEY PUT US IN WORK GROUPS AND WE BUILT TENT DECKS AND BUILT CAMPS REALLY TO GET READY FOR THE RETURN OF THE REST OF THE DIVISION. AND THEN WE WENT THROUGH ALL KINDS OF TRAINING.

COX

WERE YOU WORKING WITH SEEBEES DOING THIS?

DEAN

YOU BET. THE SEEBEES WERE A VERY VITAL PART OF OUR DIVISION. IN FACT THE 18<sup>TH</sup> MARINES WAS A BATTALION, WAS A SEEBEE BATTALION.

COX

YOU MENTIONED THAT THE ----- ABOUT GUADALCANAL. WERE YOU STILL IN NEW ZEALAND WHEN THOSE MEN WERE RELIEVED AND BROUGHT-----

DEAN

OH YEAH. WE HAD PREPARED THE CAMPS AND THE OTHER BATTALIONS OF THE 18<sup>TH</sup> MARINES WERE INVOLVED IN THAT AND THEY CAME BACK.



COX

TO THOSE GUYS, WAS THAT CONSIDERED TO BE R AND R OR WAS IT TRAINING.

DEAN

IT WAS TRAINING BUT IT WAS A DELIGHTFUL PLACE TO TRAIN.

COX

THEN, AT WHAT POINT IN TIME WERE YOU SHIPPED OUT OF NEW ZEALAND?

DEAN

WHEN WE GOT READY TO GO TO THE INVASION OF TARAWA, BETIO ISLAND, WE STAGED OUT OF NEW ZEALAND. MADE A MOCK LANDING ON THE COAST OF NEW ZEALAND AND THEN WENT FROM THERE UP TO NEW HEBRIDES AND MADE ANOTHER MOCK INVASION AND THEN WENT FROM THERE TO TARAWA.

COX

I WANT TO ASK, WHEN YOU WERE GETTING READY FOR THOSE INVASIONS LIKE TARAWA, WAS THERE GENERALLY SOME TYPE OF ORIENTATION WITH MAPS OR ANYTHING LIKE THAT TELLING WHAT THE OBJECTIVES WERE GOING TO BE?

DEAN

ONLY ON BOARD SHIP, WE HAD NO IDEA WHERE WE WERE GOING BEFORE WE WERE SHIPBOARD HEADED FOR THE CAROLINES. THEN, THEY HAD MOCKUPS ON SAND TABLES AND THINGS TO SHOW US WHAT IT WOULD BE LIKELY TO SEE; NOT COMPLETELY CORRECT, BUT THE BEST THEY COULD.

COX

WERE YOU IN THE INITIAL LANDINGS OR LATER IN THE LANDINGS?

DEAN

I WAS NOT SUPPOSED TO BE IN THE INITIAL LANDINGS. AS IT TURNED OUT, I WAS PRETTY CLOSE TO THE FRONT BUT WE WERE SHORE PARTY. OUR JOB WAS TO CONTROL THE BEACHHEAD. SO, WE NECESSARILY WOULDN'T GO AHEAD OF THE INVASION. AS IT TURNED OUT, I WAS IN THE INITIAL INVASION, PROBABLY CLOSER TO THE FRONT THAN I SHOULD HAVE BEEN IN TERMS OF BEING ABLE TO PERFORM MY FUNCTION. THINGS GOT A LITTLE CONFUSED. TARAWA DID NOT GO ACCORDING TO SCHEDULE THERE. THE TIDES DIDN'T COOPERATE. A NUMBER OF THINGS GOT COMPLICATED. THE HIGGINS BOATS COULDN'T PASS OVER THE REEF.

THEY GOT HUNG UP ON THE REEF AND THE PEOPLE HAD TO WALK ASHORE ABOUT FIVE HUNDRED YARDS UNDER CROSSFIRE.

COX

WAS YOUR POSITION WHERE YOU COULD OBSERVE SOME OF THIS?

DEAN

I WAS LUCKY IN THAT THE BOAT THAT BROUGHT ME ASHORE DROPPED ME ON THE END OF THE SEAPLANE RAMP ON THE PIER THAT EXTENDS OUT FROM THE ISLAND OF TARAWA AND SO I WAS-----I DIDN'T HAVE TO WADE IN 500 YARDS FROM SHORE UNDER A CROSSFIRE TO THE SHORE, SOMEWHAT PROTECTED, I COULD MAKE MY WAY ALONGSIDE THE PIER TO THE SHORE SOMEWHAT PROTECTED, CERTAINLY AGAINST CROSSFIRE BECAUSE I WAS (GARBLER). IT WAS OF CONCRETE. IT WAS A COCONUT LOG AND SAND REVETMENT TYPE PIER, AND WAS THEREFORE VERY STRONGLY PROTECTIVE ON ONE SIDE. IF YOU ARE ALONGSIDE, DOWN IN THE WATER YOU WERE REASONABLY UNEXPOSED.

COX

WHEN YOU SET THE EQUIPMENT UP IN REVETMENTS IN THE BEACH, WAS THAT A PRETTY SMALL BEACH AREA THERE BETWEEN THE WATER AND THE REVETMENTS?

DEAN

THE ISLAND ITSELF WAS A MILE AND A HALF BY A HALF MILE. A HALF MILE WIDE AND A MILE AND A HALF LONG. NOTHING HIGHER THAN TEN FEET ABOVE SEA LEVEL. IT WAS JUST A SPIT OF SAND WITH A LOT OF COCONUT TREES. HIGHLY REINFORCED, HEAVILY REINFORCED.

COX

DID THE TIMING OF THE INITIAL LANDING GROUP AND ANY OF THAT CONTINUOUS LANDING GROUPS, DID THAT GO AS PLANNED TO GET 'EM UP-----DID THEY HAVE ENOUGH ROOM?

DEAN

NO. IT WAS A VERY TIGHT SITUATION. THE FIRST NIGHT, WE HAD OUR FEET IN THE WATER ESSENTIALLY. THERE WAS A SMALL STRIP OF LAND AND THEN A RETAINING WALL AND THEN BEYOND THAT WAS JUST THE ISLAND. MOST OF THE OCCUPYING FORCE DURING THE FIRST NIGHT WAS ALMOST AT THE WATER LINE. IT WAS REALLY VERY, VERY CLOSE.

COX

WAS THE LATER LANDING CRAFT ABLE TO GET UP LET PEOPLE OUT OTHER THAN HAVING TO WALK IN?

DEAN

NO. THE SAME THING, THE SECOND DAY, PEOPLE WERE STILL BEING MOWED DOWN BY CROSSFIRE AS THEY CAME IN, WADED IN FROM THE BARRIER REEF.

COX

DID THE LANDING CRAFT, WERE THEY ABLE WHEN THEY WANTED TO LAND, WERE THEY ABLE TO GET UP TO THE LANDING BEACH?

DEAN

IF THEY GOT OVER THE BARRIER REEF, THEN THEY, THE AMTRACK, AMPHIBIAN TRACTORS COULD COME ON SHORE, IF THEY WERE NOT HIT BY ANTI-BOAT FIRE. MANY OF THEM WERE. IT WAS A PRETTY BAD BATTLE. IT REALLY WAS. IT WAS VERY TENUOUS. BY THE END OF THE SECOND DAY, THEY MADE A LITTLE PROGRESS AWAY FROM THE BEACHHEAD. IT BECAME A LITTLE BIT OBVIOUS THAT WE WERE GOING TO PERSEVERE.

COX

HOW MANY DAYS DID THAT INVASION LAST?

DEAN

THREE DAYS. ONLY THREE DAYS.

COX

IT WAS PRETTY FRANTIC DURING THE (GABLED)

DEAN

IT WAS PRETTY INTENSIVE. IT DOESN'T COME MUCH HIGHER OTHER THAN THAT IN TERMS OF INTENSE COMBAT.

COX

IT WAS PRETTY MUCH EVERYONE RELIEVED AND ANOTHER GROUP OF MARINES COME IN THEN AND TAKE OUT THE INVADERS.

DEAN

NO. THE INVASION TOOK CARE OF THE JAPANESE. THERE WERE STILL JAPANESE PEOPLE STILL HOLDING OUT IN THE REVETMENTS AND THINGS AND BEING FOUND. I UNDERSTOOD LATER THAT THEY FOUND AT LEAST ONE PERSON A DAY FOR 30 DAYS. THERE WERE QUITE A FEW PEOPLE HIDING OUT. IN FACT, AS AN ASIDE, I ALMOST GOT KILLED AFTER THE BATTLE WAS OVER. I WAS SITTING ON A COCONUT LOG LOOKING OUT TO SEA AND A BULLET WENT RIGHT BY MY EAR. THIS PERSON WHOEVER HE WAS, HAD BEEN HIDING AWAY AND SAW AN OPPORTUNITY TO SHOOT ME AND HE JUST MISSED ME.

COX

WHEN THAT BULLET WENT THAT CLOSE, DID YOU HEAR? WHAT DID IT SOUND LIKE?

DEAN

SHWOOS !!!!!!! THE SOUND I MADE AS I LEFT THAT PREMISE WAS SHOOOS!!!!!!

COX

YOU KNEW WHAT IT WAS.

DEAN

I KNEW EXACTLY WHAT IT WAS. I HAD BEEN THERE BEFORE.

COX

DID YOU HAVE YOUR HELMET ON?

DEAN

NO, I DIDN'T AS A MATTER OF FACT. I WAS JUST SITTING THERE KIND OF MEDITATING.

COX

THAT WAS PROBABLY A SNIPER, YOU THINK?

DEAN

WELL, HE WAS PERFORMING THE FUNCTION OF A SNIPER. HE WAS A HOLDOUT OF SOME SORT. PROBABLY IN A HOLE.

COX

WHEN YOU WERE RELEIVED FROM THERE, WHERE DID YOU GO?

DEAN

WE WENT TO HAWAII, THE BIG ISLAND.

COX

HOW LONG WERE YOU IN HAWAII?

DEAN

ALMOST A YEAR.

COX

SO THEN, I GUESS YOU WERE REGROUPING AND----

DEAN

YEAH, TRAINING.

COX

GETTING REPLACEMENTS?

DEAN

YEP. GETTING RESTRUCTURED AND GETTING READY TO FIGHT AGAIN.

COX

WHAT WAS THE NEXT ACTIVITY THAT YOU PARTICIPATED IN?

DEAN

THE INVASION OF SAIPAN. IN THE MARIANA ISLANDS.

COX

HOW LONG DID IT TAKE YOU TO GO FROM HAWAII TO SAIPAN?

DEAN

I'M TRYING TO REMEMBER. ABOUT A WEEK I WOULD THINK. A LITTLE OVER.

COX

THAT MUST HAVE BEEN A PRETY GOOD SIZED INVASION FLEET.

DEAN

IT WAS A PRETTY GOOD SIZED ARMADA. YEAH, IT REALLY WAS.

COX

WHAT TYPE OF SHIPS DO YOU REMEMBER BEING IN THAT?

DEA

IT WAS AN APA. I DON'T REMEMBER THE NUMBER OF IT.

COX

I MEAN, THE OTHER SUPPORTING VESSALS.

DEAN

OH. THERE WERE A WHOLE LOT OF ----- EVEN BATTLESHIPS. IT WAS A SUBSTANTIAL FLEET.

COX

AIRCRAFT CARRIERS, THE WHOLE DEAL?

DEAN

I DIDN'T SEE AIRCRAFT CARRIERS BECAUSE THEY OPERATE A LITTLE FURTHER AWAY. I DID SEE A BATTLESHIP AND I THINK IT WAS THE *MISSOURI* I CAN'T REMEMBER FOR SURE, ONE OF THEM. BUT, ANYWAY IT WAS AN IMPRESSIVE SIGHT.

COX

IF THEY HAD BATTLESHIPS, THEY MUST HAVE BEEN DOING SOME BOMBARDMENT OF THE ISLANDS, PRE INVASION?

DEAN

THEY DID PRETTY HEAVY BOMBARDMENT.

COX

WHAT STAGE WAS THAT INVASION WHEN YOU WERE INVOLVED THERE, INITIAL??

DEAN

I WOULD SAY, ABOUT AS USUAL, SINCE WE WERE A SHORE PARTY, IT WAS NOT AT THE INITIAL INVASION. IT WAS DURING THE FIRST DAY.

COX

SO, YOU WERE DOING COORDINATION WITH THE LANDING..

DEAN

WE WERE WAITING TO GO ASHORE AND SET UP THE BEACHHEAD AND MOVE SUPPLIES ACROSS THE BEACH AND ALL THAT. I AGAIN, WAS A RADIOMAN, SO MY JOB WAS TO OPERATE THE RADIO ON THE BEACH AND PART OF THE SHORE PARTY OPERATION.

COX

HOW MANY MEN WERE IN YOUR PARTICULAR GROUP?

DEAN

WE OPERATED IN SMALL TEAMS AND WOULD THINK THERE WERE FOUR OF US, FIVE OF US OPERATING A RADIO STATION.

COX

SO, YOU TRADED OUT ON SPECIALTIES ON THIS, IS IT?

DEAN

TRADED OUT TO STAND WATCH DURING-----ONE OF US WOULD TAKE TURNS ON THE RADIO.

COX

HOW MANY DAYS DID THAT PROGRAM LAST? THAT IS NOT A GOOD CHOICE OF WORDS.

DEAN

I WOULD SAY, A MONTH. IT WENT ON FOR A WHILE. OF COURSE, WE STAYED ON SAIPAN SO WE NEVER DID LEAVE. WE WERE BASED THERE AND USED SAIPAN AS A TRAINING BASE AFTER WE SECURED THE ISLAND.

COX

YOU WERE THERE FOR THE CONSTRUCTION OF THE RUNWAYS AND SO FORTH?

DEAN

YES. EXACTLY. THEY ALREADY HAD SOME OF THE RUNWAYS THERE. THEN OF COURSE, WE TOOK SAIPAN AND JUST A WEEK OR TWO LATER, WE WENT ACROSS THE STRAITS, TO TINIAN, WHICH IS AN ADJACENT ISLAND. YOU COULD SEE ONE FROM THE OTHER. WE THEN CAPTURED TINIAN. AFTER WE SECURED THAT ISLAND, WE CAME BACK TO SAIPAN AND IT

BECAME A FAIRLY PERMENANT BASE.

COX

WHERE WERE YOU WHEN IT BECAME APPARENT THAT THE WAR WAS ENDING, WINDING DOWN?

DEAN

I HAD ROTATED TO THE STATES. THEY STARTED ROTATION AND I WAS IN THE FIRST GROUP THAT ACTUALLY ROTATED FROM 7<sup>TH</sup> MARINE DIVISION. I WAS BACK AT THE MARINE BASE IN SAN DIEGO WHEN THEY DROPPED THE ATOMIC BOMB ON HIROSHIMA. BACK IN THE STATES IS WHERE I WAS. THE "ENOLA GAY" TOOK OFF FROM TINIAN WHICH ISLAND WE SECURED. THAT'S WHERE THEY TOOK OFF TO DROP THE ATOMIC BOMB.

COX

HOW LONG WERE YOU IN THE MARINE CORPS AFTER THAT?

DEAN

I HAD A FOUR YEAR ENLISTMENT AND IN APRIL, '42 I GOT OUT IN APRIL OF '46. AFTER I CAME BACK TO THE STATES, I WENT FOR SOME FURTHER TRAINING IN RADIO, AND THEN WORKED IN A DEPOT IN CAMP LEJUNE, NORTH CAROLINA UNTIL MY ENLISTMENT WAS UP.

COX

WHAT WAS YOUR RANK AT THAT TIME?

DEAN

CORPSORAL.

COX

YOU DID GET YOUR DISCHARGE. DID YOU RETURN BACK HOME?

DEAN

I WENT BACK HOME AND SET UP A RADIO SHOP IN HERMITAGE, ARKANSAS. I DECIDED I SHOULD GO TO COLLEGE. I CHECKED OUT THE COLLEGE THAT WOULD ACCEPT ME WITHOUT HAVING A HIGH SCHOOL DIPLOMA AND THEY SAID, "YES, OF COURSE." I TOOK THE SAME ENTRANCE EXAM AS EVERYBODY ELSE TOOK. THEY MADE NO DISTINCTION ABOUT THE HIGH SCHOOL DIPLOMA. I WENT TO WASHITA COLLEGE IN ARKADELPHIA, ARKANSAS.

COX



SO, YOU GOT YOU BACHELORS DEGREE?

DEAN

NO. I PUT IN TWO YEARS WHEN I STARTED AT WASHITA, THEY PUT ME AS A JUNIOR IN R.O.T.C. RESERVE OFFICERS TRAINING CORPS BECAUSE OF MY PRIOR MILITARY EXPERIENCE. SO, WHILE I WAS A FRESHMAN IN THE COLLEGE, I WAS A JUNIOR IN ROTC WHICH MEANT THAT I HAD FINISHED MY ROTC TRAINING AT THE END OF MY SOPHOMORE YEAR AND GOT MY COMMISSION AND I ELECTED AT THAT POINT TO GO AHEAD AND TAKE THE COMMISSION IN THE ARMY AND GO AHEAD AND APPLY FOR REGULAR ARMY COMMISSION. TO MAKE A CAREER OF THE ARMY.

COX

WHEN YOU DID THAT, WHAT WAS THE FIRST ACTIVE DUTY ASSIGNMENT IN THE ARMY?

DEAN

I APPLIED FOR, DIRECTLY FROM CIVILIAN STATUS I APPLIED FOR WHAT THEY CALLED A COMPETITIVE TOUR. THIS WAS A CHANCE TO COMPETE WITH ALL OTHER SECOND LIEUTENANTS IN THE UNITED STATES TO DETERMINE WHETHER I WOULD BE ABLE TO BE AWARDED A REGULAR ARMY COMMISSION AS OPPOSED TO A RESERVE COMMISSION AND WAS FORTUNATE ENOUGH TO ATTAIN THAT. I WAS ASSIGNED TO SIGNAL CORPS OF COURSE BECAUSE THAT WAS MY SPECIALTY. I WAS ASSIGNED TO THE 51<sup>ST</sup> SIGNAL BATTALION AT FORT MEAD, MD. I PUT IN SEVERAL YEARS.

COX

WAS THAT A PRETTY GOOD DUTY STATION?

DEAN

THAT WAS WONDERFUL DUTY STATION. 51<sup>ST</sup> SIGNAL BATTALION WAS JUST A FANTASTIC OUTFIT. IT WAS THE OLDEST SIGNAL CORPS BATTALION IN THE ARMY AND WAS CERTAINLY THE MOST RESPECTED.

COX

DID YOU GET CALLED IN TO THE KOREAN?

DEAN

VERY EARLY. VERY EARLY, 51<sup>ST</sup> WAS TAPPED TO GO TO PUSAN AT THE VERY EARLIEST

STAGES. WE WENT IN WHILE IT WAS STILL IN THE PUSAN PERIMETER. WE DID MANAGE TO MOVE IN THE BATTALION FROM MEAD, MD. BY RAIL ACROSS THE UNITED STATES AND THEN BY SHIP ACROSS THE OCEAN AND STILL GET IN AT THE BEGINNING OF THAT FIGHT.

COX

WHAT MONTH WAS THAT IN 1950?

DEAN

LATE SUMMER. I DON'T REMEMBER THE EXACT MONTH. I HAVE MY RECORDS. I COULD DIG IT UP. I GOT THERE JUST BEFORE THEY KICKED OFF THE ARMY ASSAULT THAT TOOK THEM ALL THE WAY THROUGH KOREA. THE TIME OF THAT IS PRETTY WELL ESTABLISHED IN HISTORY. WE GOT THERE JUST MAYBE A WEEK BEFORE THEY KICKED OFF THE ATTACK.

COX

DID YOU STAY IN PUSAN ALL THE TIME?

DEAM

OH NO. I WAS IN; I WAS ONCE AGAIN IN RADIO AND MY JOB WAS TO ESTABLISH RADIO RELAY STATIONS ON THE HIGH GROUND AROUND THE MOUNTAINS TO ALLOW COMMUNICATIONS BETWEEN 1<sup>ST</sup> CORPS HEADQUARTERS AND THE DIVISIONS THAT MADE UP THE FIGHTING FORCE SO THAT MEANT THAT WE HAD TO BE OUT ALL THE TIME ON THE MOUNTAINS PUTTING UP RADIO STATIONS AND TAKING CARE OF THEM. I DID THAT ALL THE WAY TO CHINA. I GOT WITHIN FOURTEEN MILES OF THE MANCHURIAN BORDER THE DAY THE CHINESE ENTERED THE WAR. IN FACT, I WAS ALMOST CAUGHT UP IN THAT ATTACK AT WOONSON (SP???), THAT VILLAGE OF WOONSON. I WAS ONLY PULLED BACK BY MY COMMANDER AN HOUR BEFORE THE ATTACK. WE WERE VERY CLOSE TO HAVE BEEN CAPTURED ALONG WITH THAT COVERING REGIMENT THAT WAS THERE THAT GOT DECIMATED.

COX

I WAS GOING TO ASK YOU WHAT UNIT YOU WERE WORKING WITH IN SUPPORT.

DEAN

7<sup>TH</sup> CAVALRY. THEY WERE DECIMATED. THEY WALKED OUT WITH ABOUT 500 MEN. THEY LOST ALL THEIR EQUIPMENT. IT WAS REALLY A HUGE BATTLE. THAT'S WHEN THE CHINESE CAME IN, YES. I WAS THERE WITH THE (UNCLEAR) THE DAY THEY ATTACKED. HE STRONGLY SUGGESTED I CALL MY COMMANDER TO SEE IF HE WANTED ME TO COME BACK. I GOT COL. WEEKS ON THE PHONE AND HE SAID, "WOODY AND I SAID, "YES" AND HE SAID, "GET

OUT OF THERE." I SAID GOODBYE TO PARKER AND TOOK MY GROUP OF PEOPLE AND AWAY WE WENT. I'M SURE WE DROVE OUT UNDER THEIR GUNS IN THE TIME BEFORE THEY WERE ACTIVE, SO, THEY DIDN'T ATTACK YET.

COX

DID AT ANY TIME THERE, DID YOU EVERY HEAR ANY OF THE BUGLES BLOWING?

DEAN

NO. WE WERE AN HOUR AWAY. WE WOULD HAVE IF WE HAD STAYED THERE ANOTHER HOUR.

COX

DID YOU EVER GIVE ANY SUPPORT TO ANY OTHER DIVISIONS DURING THAT KOREAN EXPERIENCE?

DEAN

WE WERE FULLY DEDICATED TO THE 1<sup>ST</sup> CORPS SO THAT WE WERE DOING WHATEVER NECESSARY TO SERVE THEM, AND MAINLY TO KEEP THEM IN COMMUNICATIONS CONSTANTLY. THAT WAS OUR JOB.

COX

WHERE DID YOU GO BACK TO?

DEAN

BACK SOUTH OF SEOUL UNTIL (UNCLEAR) UNTIL STABILIZED AND THEN WE MOVED BACK. WE ESTABLISHED A MAJOR HEADQUARTERS ON THE SOUTH BANK AT YONG GUNG POL (?). AFTER THEY CROSSED OVER AND HAD RETAKEN SEOUL, I TOOK A TEAM AND WENT UP TO THE LITTLE TOWN OF WE JON BOON (SP????) AT THE END OF '51 AND THAT COMMAND POST IS STILL SITING THERE. WE JON BOON IS STILL THE MAJOR COMMAND POST FOR THAT PART OF THE LINE.

COX

HAVE YOU MADE TRIPS TO KOREA SINCE THEN?

DEAN.

NO. I WOULD LIKE TO. I REALLY WOULD. I HAVE NEVER BEEN BACK.

COX

NONE OF THE ISLANDS WHERE YOU PARTICIPATED?

DEAN

NO. I'VE NEVER MADE A RETURN TRIP. I WOULD LIKE TO DO THAT SOME DAY.

COX

WHAT WAS THE TOTAL TIME SPENT IN KOREA?

DEAN

I WENT IN THERE IN THE SUMMER AND I CAME BACK IN JANUARY, '52.

COX

A PRETTY LENGTHY TOUR.

DEAN

YEAH, IT WAS A YEAR AND A HALF. A LITTLE MORE THAN A YEAR AND A HALF;  
ROTATED BACK.

COX

WHAT WAS YOUR RANK AT THE TIME YOU ROTATED BACK?

DEAN

FIRST LIEUTENANT. I GOT BACK TO THE STATES AND GOT QUARTERED TO THE PENTAGON. I HAD NO IDEA. IT DIDN'T SAY ANY MORE. TOLD ME TO REPORT TO A CERTAIN ROOM IN THE PENTAGON. I WAS VISITING MY SISTER AND HUSBAND IN CHARLOTTE, N.C. SOME QUESTION CAME UP ON WHAT DEAN WAS GOING TO DO. MY BROTHER IN LAW SAID, 'DEAN IS GOING TO GO TO WASHINGTON AND HEAD UP THE COMMUNICATIONS CAR FOR PRESIDENT TRUMAN. I SAID, "WELL, THAT IS FROM LEFT FIELD." I HAD NO IDEA OF WHERE THAT CAME FROM. HE WOULDN'T SAY ANYTHING MORE. I FIGURED IT OUT LATER THAT THE SECRET SERVICE HAD BEEN THERE TALKING TO HIM ALREADY. HE KNEW WHAT I WAS GOING TO BE DOING AND HE TOLD MORE THAN HE SHOULD HAVE TOLD. OF COURSE, I DIDN'T KNOW THAT. I GOT TO THE PENTAGON AND I REPORTED TO THE ROOM I WAS DIRECTED TO REPORT TO. COL. FRANCES WAS THE COLONEL. I KNEW THE COLONEL. I HAD MET HIM BEFORE BACK IN 1950. HE WASN'T IN AND I ASKED THE SECRETARY WHAT WAS UP AND WHAT THEY HAD IN MIND FOR ME". SHE SAID, "I DON'T KNOW FOR SURE, BUT I THINK YOU ARE GOING TO BE WORKING AT THE WHITE HOUSE." I WAS ABSOLUTELY ASTOUNDED. COL. FRANCES CAME BACK AND THAT'S

EXACTLY WHAT THEY TABBED ME FOR. I REPORTED IN TO COL. GEORGE MCNALLY AT THE WHITE HOUSE THE SAME DAY AND THE SAME HOUR THAT HARRY TRUMAN AND HIS FAMILY MOVED BACK INTO THE WHITE HOUSE AFTER RENOVATION OF THE BUILDING SO I WAS THERE PRESENT WHEN HE ARRIVED IN THE CEREMONY FOR THE EVENT. ABSOLUTELY FASCINATING.

COX

DID YOU GET A PROMOTION AFTER THAT?

DEAN

NOPE. I MADE THE CAPTAIN A LITTLE LATER. I GOT A WONDERFUL EXPERIENCE BEING ABLE TO WORK WITH THE PRESIDENT AND TRAVEL WITH HIM ON THE WHISTLE STOP TRIPS AND ALL OF THAT.

COX

SO, YOU GOT TO DO THE TRAIN TRIPS AS WELL AS THE PLANE TRIPS?

DEAN

WELL, I DIDN'T ACTUALLY MAKE ONE OF THE PLANE TRIPS. HARRY DIDN'T REALLY LIKE TO FLY. HE WOULD DO ALMOST ANYTHING TO AVOID A PLANE. I SPENT MOST OF MY TIME WITH THE COMMUNICATION EQUIPMENT ON THE CAR RAIL BUS AND WE HAD A BRAND NEW SET UP WHEN I GOT THERE. I WAS THE FIRST ONE TO TAKE THE TRAIN OUT THAT HAD A COMPLETE COMMUNICATIONS CENTER ON WHEELS. WE WERE IN CONTACT WITH THE PENTAGON ALL THE TIME BY RADIO.

COX

YOU WERE TRANSMITTING INFORMATION FROM THE TRAIN AS WELL AS RECEIVING FROM THE PENTAGON.

DEAN

WE WERE IN FULL COMMUNICATIONS WITH THE PENTAGON AT ALL TIMES..

COX

YOU HAD A PRETTY HIGH SECURITY CLEARANCE?

DEAN

I DID INDEED. THAT'S WHY MY BROTHER IN LAW KNEW WHAT I WAS GOING TO BE DOING. THE SECRET SERVICE HAD PROBABLY TOLD HIM MORE THAT THEY SHOULD TOO. THERE WAS A FACT FINDING ASSIGNMENT THAT WE DID 18,500 MILES BY RAIL IN 45 DAYS.

WE MADE A BIG FIGURE EIGHT ACROSS THE UNITED STATES.

COX

WHAT TYPE OF ACCOMADATIONS DID YOU HAVE ON THAT TRAIN TRIP?

DEAN

WE HAD PRIVATE BEDROOMS ON THE TRAIN. WE ALSO HAD A SPECIAL CAR JUST FOR THE ARMY, A LOUNGE CAR SO THAT WE HAD KIND OF A REC ROOM ON BOARD THE TRAIN. THIS TRAIN WAS A ROLLING COMMAND POST, REALLY WHAT IT WAS. IT WAS COMPLETELY WIRED. I MEAN THEY HAD PHONES ALL OVER, A SWITCHBOARD. THEY HAD EVERY OCCASION FACILITY, INCLUDING FACSIMILE AND WIRELESS TELEPHONES. THAT WAS IN THE EARLY DAYS OF THE WIRELESS TELEPHONE SYSTEM. WE HAD A SEVEN CHANNEL WIRELESS TELEPHONE SYSTEM SO THAT THEY COULD JUST ABOUT CONTINUE BUSINESS AT HOME.

COX

SINCE AT THAT TIME, I DON'T THINK WE HAD SATELLITES

DEAN

NO, WE CERTAINLY DIDN'T.

COX

HOW WAS THAT MESSAGE GETTING TRANSMITTED? WAS THERE AN INTERMEDIATE TRASMISSION POINT OR RELAYS?

DEAN

WE HAD TWO VERY POWERFUL TRANSMITTERS ON THE TRAIN ITSELF IN THE COMMUNICATION CAR. WE WERE TRANSMITTING RADIO TELETYPE BACK TO THE PENTAGON. THE MESSAGES WERE IN QUICKLY AND SENT JUST AS THEY NORMALLY WOULD HAVE BEEN ON LAND. JUST THAT THEY WERE BEING DONE, THEY WERE BEING DONE FROM A MOBILE TRANSMITTER, THAT'S ALL. IT WAS A VERY COMPREHENSIVE COMMUNICATIONS FACILITY.

COX

CONSIDERING THAT YOU WERE SOMETIMES MOVING AT A PRETTY GOOD SPEED.

DEAN

OH, YEAH. IT WAS AN EXCELLENT FACILITY. SIGNAL WARHEAD DESIGNED AND BUILT THIS THING AND THEY DID A GOOD JOB. IT WAS GOOD.

COX

THE LOCOMOTIVES, WERE THEY DIESEL POWERED OBVIOUSLY, I THINK?

DEAN

YES. IT WOULD HAVE BEEN DIESEL.

COX

PROBABLY THE LATEST?

DEAN

YEAH. IT WAS THE PRESIDENT'S CAR A GOOD OCCASION FOR TRAINING BECAUSE IT WAS HEAVILY, HEAVILY REINFORCED, ARMORED, VERY THICK ARMOR. BEING WEIGHING SEVERAL HUNDRED THOUSAND POUNDS ON THE END OF THE TRAIN, IT GAVE THEM A GOOD EXERCISE GENTLY STARTING A TRAIN WITHOUT PULLING COUPLINGS.

COX

HE HAD THE PLATFORM CAR THEN?

DEAN

YES.

COX

WHERE HE COULD GIVE HIS LITTLE SPEECHES.

DEAN

OH YEAH. IT WAS A BEAUTIFUL FACILITY. IT STILL EXISTS IN A MUSEUM IN FLORIDA.

COX

YOU ANSWERED THE QUESTION I WAS GOING TO ASK YOU. WHEN ROOSEVELT DIED, YOU WERE OVERSEAS AT THAT TIME?

DEAN

YEAH, HE DIED BEFORE I GOT BACK.

COX

THAT MUST HAVE BEEN, WHAT? DURING HARRY'S LAST TERM?

DEAN

YEAH, AND I WAS THERE DURING THE FIRST TERM OF EISENHOWER.

COX

DID HE FLY OR DID HE USE TRAINS ALSO?

DEAN

HE FLEW AS MUCH AS HE COULD. I NEVER WENT ON THE TRAIN WITH EISENHOWER. HE MOSTLY FLEW. BY THIS TIME THE SIGNAL CORPS WAS AFTER ME TO GO TO SCHOOL. COLONEL THATCHER SENT ME TO ANOTHER ASSIGNMENT THEN. HE WAS KEEPING ME THERE AS LONG AS HE COULD BUT WHEN HE LEFT, THEY GRABBED ME AND PUT ME IN SCHOOL SO I WAS WAY BEHIND MY PEERS IN TERMS OF CAREER TRAINING.

COX

YOU WENT TO THIS ADDITIONAL TRAINING, WHERE DID THAT TAKE PLACE?

DEAN

IN MONMOUTH, NEW JERSEY; ADVANCE COURSES.

COX

HOW LONG DID THAT LAST?

DEAN

THAT WAS A NINE MONTHS COURSE. I GOT PROMOTED TO CAPTAIN DURING THAT TIME.

COX

AND THEN, WHAT WAS YOUR ASSIGNMENT?

DEAN

I WAS ASSIGNED AS A COMPANY COMMANDER IN AUSTRIA, SALSBURG IN THE SIGNAL BATTALION. DURING THE LAST TIME BEFORE THE SIGNING OF THE TREATY AND LEFT AUSTRIA. THAT WAS ABOUT A YEAR AFTER I GOT TO SALSBURG WHEN THEY SIGNED THE PEACE TREATY. WE RELOCATED TO A NEW COMMAND THEY ESTABLISHED IN VERONA, ITALY, CALLED THE SOUTHERN EUROPEAN TASK FORCE. IT WAS A NUCLEAR STRIKE FORCE IN SUPPORT OF NATO COMMAND SOUTH. SO, WE SET UP IN VERONA AND PUT IN THE REST OF A THREE YEAR NORMAL TOUR THERE.

COX



WHICH OF THE TWO, SALSBURG OR VERONA WAS THE BEST DUTY STATION?

DEAN

BOY, THAT'S A TOUGH ONE. THEY WERE BOTH ABOUT AS NICE AS YOU CAN GET. I GUESS ITS ONE ON TOP OF THE OTHER. I THOUGHT I HAD DIED AND GONE TO HEAVEN. IT WAS BEAUTIFUL, ABSOLUTELLY BEAUTIFUL. WE REALLY ENJOYED ITALY VERY, VERY MUCH. ITALY IS QUITE SPECTACULAR.

COX

HOW MUCH TIME OFF DID YOU GET TO KIND OF SEE THE COUNTRY AS A TOURIST?

DEAN

THE WEEKENDS I DIDN'T HAVE TO WORK. WE WENT TO THE SKI SLOPES AS MUCH AS WE COULD. WE FORMED A LITTLE CLUB IN MADONNA RAPIDIO (SP????) IN THE DOLOMITES AND RENTED A LITTLE 30 BED HOTEL AND FORMED A CLUB. IT WAS A TOUGH WALK TO THE CHAIR LIFT, IT WAS JUST ACROSS THE STREET. TOUGH DUTY.

COX

I WAS GOING TO ASK A QUESTION THERE. SINCE YOU WERE SKIING, DID YOU HAVE CIVILIAN SKI EQUIPMENT OR WERE YOU USING ARMY SKI EQUIPMENT?

DEAN

NO, THIS WAS CIVILIAN STUFF.I HAD MY COMPANY ON SKIS IN SALSBURG BUT THEY WERE PRIVATELY OWNED SKIS. THERE WERE NOT ISSUE SKIS. THE FULL COMPANY, I THINK COULD SKI. ANYTIME WE COULD BE ON THE SLOPES, WE WERE NOT BAD DUTY.

COX

GOOD EXERCISE. NOW, WE ARE UP TO DATE.

DEAN

'56 OR '57 I THINK THIS WOULD BE IN '57.I LEFT ITALY IN '57

COX

WHAT WAS YOUR NEXT DUTY STATION?

DEAN

BACK TO FORT MONMOUTH. ANOTHER CLASS. ANOTHER WINTER OF COURSE.

COX

IN ELECTRONICS?

DEAN

TEACHING, STUDYING APPLIED COMMUNICATIONS IS WHAT IT AMOUNTED TO. THEN AFTER I FINISHED THE COURSE, THEY ASSIGNED ME AS AN INSPECTOR AND STAY ON AND TEACH THE SAME SUBJECTS.

COX

NOT ONLY WAS THE TECHNOLOGY CHANGING DURING THAT TIME, WAS THE INTENSITY OF THE COURSES ALSO CHANGING?

DEAN

OH YEAH. THAT WAS KIND OF A CUSTOM IN THE TECHNOLOGY. THAT'S WHEN WE WERE MOVING INTO THE AREA OF COMMUNICATION CONCEPTS WE ARE ON NOW AS OPPOSED TO THE VERTICAL STRUCTURE THAT WAS PREVALENT DURING THE KOREAN WAR WHERE EVERYTHING FOLLOWS THE CHAIN OF COMMAND. THE AREA CONCEPT IS KIND OF LIKE CREATING A TELEPHONE COMPANY IN THE BATTLEFIELD, THE COMMANDER COMMUNICATES ALONG THESE LINES, NOT JUST A LONG VERTICAL COMMAND LINES, SO, I WAS TEACHING THIS DIFFERENT STRUCTURE AS PART OF MY DUTIES AT THE SIGNAL SCHOOL.

IT BECAME PERFECTLY OBVIOUS THAT THERE WAS MERGER APPROACHING BETWEEN COMMUNICATIONS AND TECHNOLOGY, COMPUTER TECHNOLOGY. IT WAS VERY OBVIOUS TO ME AT THAT TIME THAT THIS MERGER WAS GOING TO BE HAPPENING AND SO, ABOUT THAT MOMENT THE ARMY CAME UP WITH A PROGRAM TO ALLOW PEOPLE TO GO BACK TO CIVILIAN UNIVERSITIES FOR TWO YEARS. TO GET A DEGREE. I APPLIED AND THE COMMANDANT

OF SCHOOL CALLED ME TO HIS OFFICE TO DISCUSS THE APPLICATION. HE SAID, "YOU ARE A GOOD COMMUNICATOR, WHAT DO YOU WANT TO DO GETTING MESSED UP IN COMPUTERS? I SAID, "COLONEL, THEY ARE GOING TO MERGE COMMUNICATION AND COMPUTER TECHNOLOGIES ARE COMING TOGETHER. I WOULD LIKE TO BE THERE WHEN THEY MERGE."

HE LOOKED AT ME WITHOUT SAYING ANYTHING. IN 30 SECONDS, MAYBE A MINUTE, THE TIME BECAME KIND OF STRAINED. HE WAS JUST LOOKING AT ME. AND THEN HE SAID, "YOU KNOW WHAT, YOU'RE ABSOLUTELY RIGHT" AND HE SIGNED MY APPLICATION. THAT WAS THE WHOLE CONVERSATION. SO HE LET ME GO AND I WENT TO TEXAS A & M UNIVERSITY FOR TWO SOLID YEARS.

COX.

TWO YEARS. WAS IT STILL AGGIES ONLY?

DEAN

YES, MEN ONLY AT THAT TIME.

COX

YOU LIVED IN THE QUADRANGLE TYPE BARRACKS?

DEAN

NO SIR. I GOT FULL PAY AND ALLOWANCES AS A CAPTAIN. I GOT MAJOR WHILE I WAS THERE. WE LIVED ON PROFESSOR'S ROW IN A NICE HOME. I RODE MY BYCYCLE TO CLASS.

COX

YOU DIDN'T NEED DOWN IN THE CABIN.

DEAN

NO. I SURE DIDN'T. I HAD KIDS IN SCHOOL. ALL OF US TREASURED THOSE TWO YEARS. THAT WAS TWO WONDERFUL YEARS.

COX

SINCE YOU WERE THERE AS FAR AS COURSE STRUCTURING, WAS THAT ARMY DICTATED.?

DEAN

NOT AT ALL. THEY DIDN'T TELL ME TO DO ANYTING. THEY DIDN'T TELL ME A THING, THEY JUST TURNED ME LOOSE. I SENT A REPORT IN ONCE A SEMESTER AND TOLD THEM WHAT COURSES I HAD TAKEN AND WHAT GRADES I MADE. THEY DIDN'T EVEN ASK FOR MY LETTERS. THEY JUST COMPLETELY TURNED ME LOOSE. I KNEW EXACTLY WHAT I WANTED TO DO, WHICH WAS, I TOOK EVERY COURSE I COULD GET MY HANDS ON. I REALLY LOADED MYSELF DOWN BUT THAT WAS AN OPPORTUNITY THAT I HAD BEEN WANTING ALL MY LIFE TO GET THAT KIND OF TRAINING IN. I REALLY WENT FOR IT.

COX'

YOU GOT YOUR MASTERS DEGREES?

DEAN

NO SIR. I GOT A BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING.

COX

THEN, FROM THERE, I GUESS YOU WENT BACK TO ACTIVE DUTY?

DEAN

I WENT BACK TO ACTIVE DUTY OF COURSE. I WAS CARRIED AS A CIVILIAN THERE SO I WORE CIVILIAN CLOTHES. ON GRADUTATION DAY, I PUT ON MY DRESS BLUE UNIFORM AND THE GUYS WERE SAYING, "WE DIDN'T KNOW YOU WERE IN THE ARMY."

I WENT BACK TO FORT MONMOUTH AND WAS TEACHING MY PEERS, IN THE SAME SCHOOL I HAD TAUGHT BEFORE. AND THEN THE TIME CAME TO GO TO COMMAND GENERAL STAFF COLLEGE AND I WAS TAPPED TO DO THAT.

WHILE I WAS THERE, I LEARNED ABOUT AN EXPERIMENTAL PROGRAM THAT WAS BEING IN THE FINAL STAGES OF DEVELOPMENT. IT WAS CALLED, THE ARMY TACTICAL OPERATIONS CENTER PROJECT. IT WAS AN ATTEMPT TO USE COMPUTERS TO MANAGE A BATTLE. THAT REALLY ATTRACTED MY ATTENTION. I WENT TO WHAT ARRANGEMENTS WERE WORKING ON THAT. THERE WAS A SPACE FOR A MAJOR WITH MY TYPE OF BACKGROUND. I GOT MY HAT QUIETLY THROWN INTO THE RING AND IT WAS PICKED UP. I WAS ASSIGNED AS A SENIOR TECHNICAL OFFICER ON THE STAFF OF ARMY OPERATIONS CENTER PROJECT. I SPENT A YEAR AT NEWPORT BEACH, CALIFORNIA DURING THE FINAL STAGES IS WHEN THE EQUIPMENT WAS ASSEMBLED AND TESTED. I TRAINED A TEAM OF ABOUT 30 PEOPLE TO OPERATE AND MAINTAIN THIS FACILITY TESTING THE CONCEPT OF AUTOMATED COMBAT THE FIRST TIME THIS WAS DONE.

WE FINISHED NEW EQUIPMENT AND MOVED IT BACK TO FORT LEAVENWORTH KS. WHERE THE CLASS FOR THE COMMAND COLLEGE CAME THE PLAYERS WORKING WITH THIS EQUIPMENT DOING AN EVALUATION OF THE IDEA OF USING COMPUTERS TO HELP MANAGE A BATTLE. THE EQUIPMENT ITSELF WAS VERY PRIMITIVE AND VERY, VERY UNRELIABLE. WE WERE ABLE TO NURSE IT ALONG GETTING IT TO WORK WELL ENOUGH THAT THE OFFICERS WHO PARTICIPATED IN THIS GOT THE VISION THAT THEY SHOULD HAVE GOTTEN THAT THIS WAS A VERY POWERFUL ADDITION TO THE ABILITY TO MANAGE A BATTLE AND THAT IT SHOULD BE PURSUED, NOT WITH THAT EQUIPMENT BECAUSE IT WAS TOO DIFFICULT TO UNRAVEL.

COX

WAS IT PRETTY BULKY ALSO?

DEAN

IT WAS WAY AHEAD OF ITS TIME. IT WAS TEN YEARS AHEAD OF ITS TIME. THEY DID

MAKE IT WORK WELL ENOUGH TO GET A CORRECT VALUATION OF WHAT THIS COULD MEAN TO THE MANAGEMENT OF THE BATTLE IN THE FUTURE. AND YOU SAW THE RESULTS IN DESERT STORM IN IRAQ. THE AUTOMATED BATTLE THAT ALLOWED FIRST ROUND ACCURACY IN WHAT WAS PIN POINT ACCURACY. NOBODY HAD EVER HAD THIS BEFORE. NOBODY HAD BEEN ABLE TO ACHIEVE FIRST ROUND HITS ON THE TARGET BECAUSE THEY COULD NOT CALCULATE THE (NOT UNDERSTOOD) ACCURATELY ENOUGH TO PUT A ROUND ON TARGET THE FIRST THING. SO, WHAT YOU DID WAS WHAT THEY CALL BRACKETING, LONG, SHORT, THEN IN BETWEEN.

IN THE MEANTIME , THEY HAD TAKEN SHELTER BECAUSE THEY KNEW WHAT WAS COMING. IN DESERT STORM IN IRAQ, THAT IS WHAT HAPPENED. THE FIRST WARNING YOU HAVE IN AN ATTACK, IS WHEN THE BULLET ROUND HITS YOU, WHICH MEANS THAT THE SOLDIERS IN DESERT STORM, THE ENEMY SOLDIERS WERE VERY RELUCTANT TO VIEW THE TANK. THEY TRIED TO STAY AS FAR AWAY AS POSSIBLE.

COX

NOW WHEN YOU SAID BRACKETING, WOULD IT-----NOW YOUR ARE TALING ABOUT ARTILLERY?

DEAN

I AM TALKING ABOUT ARTILLERY ADJUSTMENT FIRE.

COX

SINCE WE ARE TALKING ABOUT THE TIME WHEN COMMUNICATION WASN'T THE BEST, YOU JUST HAD RADIOS, HOW DID YOU GET THAT INFORMATION.

DEAN

YOU HAD AN OBSERVER. YOU HAD TO HAVE AN OBSERVER WATCHING THE FIRE. HE WOULD ADJUST FIRE. THEY WOULDN'T TRY TO CREEP UP ON A TARGET. THEY TRIED TO GET A LONG AND A SHORT SO THEY COULD DETERMINE BY CALCULATION WHERE THE TARGET WAS SO YOU CAN GET A LONG AND A SHORT AND HIT THE TARGET HOPEFULLY ON THE THIRD ROUND. IN THE MEANTIME, EVERYBODY HAS TAKEN SHELTER.

COX

AND HOPEFULLY, THE OBSERVERS WERE WHERE HE COULD GET A GOOD VIEW.

DEAN

A GOOD VIEW, SURE. NOW WE HAVE TO KNOW THE COORDINATES AND THEN THEY CAN DROP A GOOD SHELL ON THEM. IT'S A COMPLETELY DIFFERENT WORLD.

COX

NOW A QUESTION INDICATING YOU TOOK ----- WHAT WAS UNIQUE ABOUT NEWPORT BEACH, CA. THAT YOU WENT TO, TO DEVELOP THIS.

DEAN

IT WAS WHERE THE ELECTRONIC DIVISION OF FORD MOTOR CO WAS LOCATED AND THAT IS WHERE THEY WERE BUILDING THIS-----THAT WAS JUST COINCIDENTAL, IT HAPPENED TO BE NEWPORT BEACH.

COX

I COULDN'T QUITE PICTURE IN MIND-----

DEAN

GREAT PLACE FOR AN ASSIGNMENT.

COX

A GOOD ONE.

DEAN

A GOOD ONE YEAH. YOU COUDN'T DO BETTER THAN THAT.

COX

REPEAT FOR ME. YOU LEFT NEWPORT AND WENT BACK-----

DEAN

BACK TO FORT LEAVENWORTH. WE DID THE -----WE WORKED WITH THE CLASS THAT WAS IN THE GENERAL COMMAND SCHOOL TO DO THIS EVALUATION AND WRITE THE REPORT.

COX

THESE WERE OFFICERS THAT WERE BEING; CONSIDERED TO BE ABOVE LINE OFICERS.

DEAN

THIS IS THE SENIOR TACTICAL COURSE. THEY WERE LT. COLONELS MAINLY. SOME WERE A FEW MAJORS. MOSTLY MAJORS AND LT. COLONELS. AND A PART OF OUR TEAM WERE SELECTED TO TAKE THE NEXT STEP TO FURTHER REFINE THIS CONCEPT OF USING COMPUTERS IN THE BATTLE IN THE MANAGEMENT OF THE BATTLE. TO DO SO, IN A REAL ENVIRONMENT OF THE 7<sup>TH</sup> U.S. ARMY IN GERMANY,

THEY GAVE US 25 MILLION OR SO TO GO AS A TEAM TO THE 7<sup>TH</sup> U.S. ARMY IN STUTGARDT, LATER WE MOVED TO HEIDELBURG. IN STUTGARDT, WORK WITH 7<sup>TH</sup> U.S. ARMY AND COME UP WITH A DESIGN USING OFF THE SHELF COMMERCIAL EQUIPMENT MOUNTED IN TRUCKS SO THEY COULD ACTUALLY WORK WITHIN A REALISTIC TYPE ENVIRONMENT ON NEAR TYPE ENVIRONMENT. WE PUT TOGETHER A DESIGN TEAM. WE DESIGNED A SYSTEM USING COMMERCIAL OFF THE SHELF DATA PROCESSING EQUIPMENT MOUNTED IN MILITARY VEHICLES SO THAT THE 7<sup>TH</sup> U.S. ARMY COULD ACTUALLY WORK IN THE FIELD WITH THE CONCEPT OF KEEPING TRACK OF THE BATTLE WITH COMPUTERS. WE WERE SUCCESSFUL AND PUT TOGETHER A SYSTEM THAT WAS FIELDDED AND WAS USED AND FURTHER DEFINED ITS POSITION IN TERMS OF USING COMPUTERS FOR TACTICAL WARFARE.

THAT DESIGN CULMINATED IN DESERT STORM AND THEN LATER. IT WAS A VERY PIVOTAL LITTLE PROJECT. IT DIDN'T GET MUCH PRESS BUT IT WAS A VERY CRITICAL ONE BECAUSE IT ALLOWED THE MILITARY PEOPLE TO GET A PERSONAL EXPERIENCE WITH USING THAT TYPE OF TECHNOLOGY IN THAT WAY THAT THEY COULD GUIDE THE ARMY'S FUTURE DEVELOPMENT IN THAT BASED ON KNOWLEDGE. IT WAS A VERY IMPORTANT PROJECT. I'M HAPPY TO HAVE BEEN A PART OF IT.

COX

HOW LONG DID YOU CONTINUE DOING PROJECTS LIKE THAT?

DEAN

IT WAS ABOUT TIME FOR ME TO RETIRE, SO I RETIRED AT THE END OF THAT PROJECT.

COX

AND YOUR RANK AT THAT TIME?

DEAN

LIEUTENANT COLONEL.

COX

DID YOU FIND THAT CIVILIAN LIFE WAS A RATHER RADICAL CHANGE?

DEAN

VERY RADICAL. VERY, VERY DIFFERENT ATTITUDES PREVAIL IN THE CIVILIAN LIFE.

COX

DID YOU BY CHANCE TAKE A VACATION OR DID YOU IMMEDIATELY KNOW WHAT YOU WANTED TO DO?

DEAN

NO. I WENT STRAIGHT TO WORK. IN FACT, I WENT TO WORK ON MY NEW JOB WHILE I WAS STILL ON TERMINAL LEAVE SO I WENT TO WORK FOR BOROUGHS CORPORATION.  
B U R O U G H S.

COX

OH, BOROUGHS. I'M SORRY.

DEAN

AT THAT TIME THEY WERE ONE OF THE MAJOR COMPUTER COMPANIES. I STAYED WITH THEM SEVEN YEARS. LATER ON, THEY DIDN'T FAIR WELL. I THINK TOP MANAGEMENT PERHAPS DIDN'T MAKE THE TRANSITION TO LATER DAY TECHNOLOGY AS FAST AS THEY SHOULD. THEY HAD THE ADDING MACHINE MENTALITY.

COX

THEY WEREN'T QUITE AS SHARP AS THE COLONEL WAS. WOULD YOU HAVE MADE  
(GARBLED)

DEAN

I WOULDN'T PUT MYSELF ABOVE THEM BUT I WOULD SAY THEY WERE NOT AS SHARP AS I. B. M. WAS AND A FEW OTHER PEOPLE. IT WAS A BIG SHAKE OUT. THEY WOUND UP BUYING UNIVAC OR UNIVAC BOUGHT THEM OR THEY MERGED OR SOMETHING. NEITHER ONE OF THEM REALLY DID VERY GOOD, VERY WELL IN THE COMPUTER WORLD. THEY ARE STILL IN BUSINESS BUT IT IS A SHADOW OF THEIR FORMER SELVES. THEY WERE MAJOR PLAYERS AT THE TIME I WAS WITH THEM.

COX

OBVIOUSLY THERE WAS A CHANGE THERE AFTER A CERTAIN NUMBER OF YEARS AND YOU CONTINUED ON IN WHAT CAPACITY?

DEAN

I WAS IN INVEST DEVELOPMENT LOOKING FOR NEW WAYS FOR BOROUGHS TO USE ITS TECHNOLOGY. I COULD CLEARLY SEE THE CHANNELS THEY SHOULD FOLLOW. I DIDN'T DO A VERY GOOD JOB OF CONVINCING THE PRESIDENT OF THE COMPANY THAT WE HAD FIGURED IT OUT BECAUSE HE DIDN'T FOLLOW OUR GUIDANCE. THE VICE PRESIDENT I WORKED FOR WOUND UP LEAVING. IT WAS NOT A VERY SATISFYING THING BECAUSE YOU COULD SO



CLEARLY SEE WHAT WAS HAPPENING AND WHAT THE FUTURE HELD AND COULDN'T COMMUNICATE IT BELIEVABLY TO SOMEONE WHO WAS IN POSITION TO DO SOMETHING ABOUT IT. IT WAS FRUSTRATING. I LEFT AND WENT AS AN INDEPENDENT CONSULTANT, THEN STARTED WORKING OVERSEAS. I LEFT AND WENT TO TRIPOLI, LIBYA FOR FOUR YEARS, HELPED KADAFI'S OUTFIT UP AND WORKING ON A LITTLE MORE MODERN BASIS (GARBLED)

COX

YOU HAD AN INTERESTING EXPERIENCE THERE I'M SURE

DEAN

THAT WAS A **VERY** INTERESTING EXPERIENCE. I DID QUITE A BIT OF WORK WITH EXXON. THEY NEEDED COMMUNICATION EXPERTISE THERE. WE WERE ABLE TO PROVIDE THAT TO THEM. WELL, FOR THE LAST FOUR DRILLING PROGRAMS AND FOR THE ONSHORE GAS FIELD DEVELOPMENT. THINGS LIKE THAT. IT WAS A VERY INTERESTING ASSIGNMENT.

COX

THE OFFSHORE DRILLING, WAS THAT IN LIBYA

DEAN

YEAH. THEY DIDN'T MAKE A MAJOR OILFIELD FIND. THEY DID DO QUITE A BIT OF DRILLING THERE IN THAT TIME FRAME, AND DRILLED SOME VERY DEEP WELLS; DIDN'T MAKE A MAJOR HIT.. IF THEY DID, THEY KEPT IT TO THEMSELVES. EXXON DID SOME DRILLING AT TOATALL(SP???), THE FRENCH COMPANY DID SOME DRILLING. NEITHER REPORTED ANY MAJOR FINDS.

COX

YOU SAID AN INTERESTING WORD THERE, "MAJOR" FINDS. THAT DOESN'T MEAN THAT THERE IS NOT SOME OIL THERE. ECONOMICS GET (GARBLED)

DEAN

EXACTLY. I IMAGINE THEY FOUND SOME TRACES. WHAT IT WAS, I DON'T KNOW. THEY DIDN'T REVEAL IT. BUT, THEY WENT VERY DEEP. THEY WENT DOWN TO ABOUT 25,000 FEET. FOR DRILLING, THAT WAS A VERY DEEP WELL.

COX

THAT WAS WHAT YEAR, ROUGHLY?

DEAN

'78TO '79.

COX

TECHNOLOGY WAS PRETTY GOOD BUT, IT HAS BEEN ADVANCED.

DEAN

A LOT ADVANCED SINCE THEN. OF COURSE, THAT'S YOUR FIELD SO YOU KNOW ABOUT THAT.

COX

HOW LONG WERE YOU THERE IN TRIPOLI?

DEAN

I WAS THERE FOUR YEARS, THEN I LEARNED ABOUT AN OPPORTUNITY IN ABU DOBI THAT WAS HEADQUARTERED IN ENGLAND SO I WENT THERE AND TALKED WITH THE PEOPLE AND I WAS TAKEN ON, ON THE BASIS OF DOING A SUBCONTRACT IN ABU DOBI ON MAXWELL FIELD ON (NOT CLEAR) ISLAND. I HAD A SMALL TEAM OF MEN THAT DID THE ELECTRONIC INTERGRATION OF A PRETTY SUBSTANTIAL OFFSHORE FACILITY. A PROCESSING PLANT ON THE ISLAND AND PRODUCTION PLATFORMS AND THINGS. WE DID ALL THE PROVING OUT THE ELECTRONICS AND ALL THAT.

COX

THE ELECTRONICS, YOUR'E TALKING ABOUT THE COMPUTERS?

DEAN

COMPUTERS AND COMMUNICATIONS.

COX

AUTOMATIC SYSTEMS?

DEAN

YES, WE HAD-----IT WAS PRETTY SOPHISTICATED. IT WAS ONE OF (NOT CLEAR) GAS FIELDS ON EARTH: 37 PERCENT M. O. L., H<sub>2</sub>S. IT WAS VERY DANGEROUS, DANGEROUS FIELD. THEY GAVE A LOT OF ATTENTION TO SAFETY AND SO THERE WAS A LOT MORE AUTOMATED, THE FACILITIES FOR PROTECTION THAT NORMALLY WOULD HAVE BEEN IN THAT SMALL A FIELD.

COX

YOU HAD TO WORK WITH SOME PRETTY SOPHISTICATED METAL?

DEAN

OH, YES, VERY ;MUCH SO. THERE IS ONLY A 40,000 BARRELS PER DAY FIELD. IT ACTUALLY TURNED OUT TO BE ABOUT 10,000. IT WAS OVERSTATED IN THE INITIAL ESTIMATION. SO, IT DIDN'T TURN OUT TO BE A VERY GOOD FIELD. IT PROBABLY SHOULD NEVER HAVE BEEN TAPPED. IT SHOULD HAVE BEEN LEFT UNDER THE GROUND.

COX

SOME OF IT WILL BE. IT WILL BE ABANDONED A LITTLE EARLY.

DEAN

WELL, IT MAY BE. I HAVEN'T HEARD ANYTHING ABOUT WHAT HAPPENDED TO IT IN THE MEANTIME.

COX

YOU ARE PROGRESSIVELY SEEING ADVANCEMENT IN ELECTRONICS AND TECHNOLOGY.

DEAN

ALL THE TIME.

COX

AND FROM THAT ASSIGNMENT, WHAT DID YOU (DO)?

DEAN

LET'S SEE. I WORKED ON (UNCLEAR) AND OFFSHORE THERE AND DENNIS (??) ISLAND IN ENGLAND, IN BRIGHTON. WHERE I WAS IN BRIGHTEN, WORKED AS A CONSULTANT FOR ANOTHER PROJECT IN ABU DOBI. I HAD TWO PROJECTS GOING AT THE SAME TIME THE (????) PROJECT WAS BEING DESIGNED THERE. I WAS A MEMBER OF THAT DESIGN TEAM. THAT TAKES US TO ABOUT 1980.

I HEARD ABOUT SOME GOOD THINGS GOING ON IN HOUSTON SO I RELOCATED TO HOUSTON, AND BECAME THE PROJECT MANAGER ON A SUPERVISORY CONTROL SYSTEM FOR THE (NOT CLEAR) OIL FIELDS IN SAUDI ARABIA. BROWN AND ROOT CORPORATION HAD A CONTRACT TO DIVISE, DESIGN AND DEVISE AN AUTOMATIC CONTROL SYSTEM FOR THOSE

THREE FIELDS. I WOUND UP AS PROJECT MANAGER ON THAT ONE. WE CARRIED IT THROUGH THE PROJECT DEFINITION PHASE, UNTIL WE GOT TO THE STAGE CONTRACT COMPETITION TO DO THE DETAIL DESIGN. THAT ENDED MY ASSIGNMENT WITH BROWN AND ROOT.

I WENT WITH A COMPANY CALLED CREST ENGINEERING TO DO SOME WORK IN VENEZUELA ON A PERIOD OF BATCH TECHNOLOGY FOR RECOVERING HEAVY CRUDE ALONG THE ORINOCO, BY MODIFYING THE ACTUAL PHYSICAL STRUCTURE OF THE CRUDE TO GET IT FROM LIKE A FOUR DEGREE TO A USABLE OIL. THAT ONE I THINK EVENTUALLY ----VENEZUELA DIDN'T TURN OUT TO HAVE ENOUGH MONEY TO FINISH THAT PROJECT. THEY ARE STILL DOING SOMETHING WITH IT. I'M NOT SURE EXACTLY WHAT IT IS.

COX

THAT'S OVER IN NORTHEASTERN VENEZUELA?

DEAN

THAT'S NORTHEASTERN, YEAH. (NOT CLEAR) ALONG THE ONRINOCO RIVER. THERE IS A LOT OF CRUDE OIL THERE, VERY HEAVY STUFF. VERY HEAVY STUFF. YOU CAN WALK ON IT AFTER IT COOLS.

COX

TAR PITS.

DEAN

TAR PITS REALLY AND THAT'S JUST ABOUT WHAT IT IS TOO. IT'S SHALLOW BUT THERE IS AN ENORMOUS AMOUNT OF IT. I THINK THEY ARE ACTUALLY PRODUCING SOME OF IT. I THINK THE ADVANTAGE IS TO SWEETEN SOME OF THAT CRUDE UP SO THEY CAN ACTUALLY SELL SOME OF IT.

COX

SOME OF THE CASES, IT IS MY UNDERSTANDING THEY HAD ACCESS TO, THEY MAY HAVE BLENDED IT WITH SOME OF THE LIGHTER CRUDE OILS THAT THEY HAD. I DON'T KNOW, THAT'S (NOT CLEAR)

COX

A LITTLE QUESTION. YOU WORKED WITH A LOT OF LARGE CORPORATIONS, DON'T WANT TO GET TOO MUCH INVOLVED IN IT BUT, DID YOU FIND BROWN AND ROOT BEING VERY EFFICIENT IN THEIR OPERATIONS AND COMPETITIVE WITH OTHER COMPANIES DOING SIMILAR SORTS OF THINGS.?

DEAN

I THINK THEY WERE PRETTY A TOUGH COMPETITOR. AT THE TIME I WAS INVOLVED WITH THEM, THEY WERE A PRETTY SUBSTANTIAL OUTFIT AND VERY DEEP VERTICALLY. THEY HAD FABRICATION YARDS IN BARAIN THAT ACTUALLY BUILT THE PLATFORMS, PHYSICALLY CONSTRUCTED THEM. PRETTY GOOD WORK. ADVANCED WORK. A LOT OF ELEVATED CUTTING AND WELDING FACILITIES THAT ALLOWED THEM TO BE COMPETATIVE EVEN AGAINST PEOPLE WHO HAD TO BUILD PLATFORMS AND THINGS BY MANUALLY WELDING.

COX

ITS NOT ALWAYS THAT EASY TO WORK OVERSEAS EITHER.

DEAN

NO, ITS NOT. BAHRAIN IS A PRETTY BENIGN ENVIRONMENT.

COX

I DIDN'T MEAN NECESSARILY BEING UNSAFE BUT, I MEAN ITS JUST NOT LIKE FACILITIES IN THE STATES SOMEWHERE.

DEAN

BAHRAIN IS PROBABLY ONE OF THE MORE MODERN OF THE MIDDLE EASTERN COUNTRIES. ITS PRETTY SMALL, ITS AN ISLAND.

COX

WHEN YOU LEFT CREST, WAS -----

DEAN

I HAD AN IDEA FOR A COMPANY IN THE STATES. I FORMED A COMPANY CALLED ELEVATED OIL PRODUCTION IN MIDLAND, TEXAS IN 1983, JUST IN TIME FOR THE BUST. MY CONCEPT WAS TO FORM A COMPANY OF THE TECHNICALLY SOPHISITCATED PEOPLE WHO WOULD BE ABLE TO HELP INDEPENDENT OIL COMPANIES TO APPLY MODERN TECHNOLOGY TO THEIR PRODUCTION FACILITIES. THEY GREETED ,ME WITH OPEN ARMS. WE VERY, VERY RAPIDLY BECAME THE AUTOMATION DEPARTMENT FOR SOME OF THE LARGEST OF THE INDEPENDENT PRODUCERS, LIKE BROWN AND ROOT AND PARKER AND (????).

COX

WERE THESE, SAY REMOTE, MEANS WHERE YOU CAN OPERATE FACILITES FROM REMOTE-----

DEAN

YES. MEANT INDEPENDENTLY PUMPED WELLS BY RADIO.

COX

COULD BE 50 MILES OR 100 MILES AWAY AND YOU COULD CONSTANTLY MONITOR THE WELL?

DEAN

YOU COULD START AND STOP IT AND MEASURE THE FORCES ON THE RODS AND DO ALL KINDS OF THINGS REMOTELY. THE DAY THE OIL COMPANIES LOVED IT.

COX

IS THAT TYPE OF OPERATION,---- IS IT MORE SUITABLE FOR WHAT TYPE, THE ECONOMICS, SUB ECONOMIC? WHERE IS THE BREAK OVER POINT? DO YOU HAVE TO HAVE VERY GOOD PRODUCTION?

DEAN

WELL, IT CANT BE A STRIPPER WELL, GENERALLY. IT WOULD HAVE TO BE A BETTER---- THE PERMIAN FORMATION IS KIND OF MARGINAL. IT PRODUCES FOR A LONG TIME BUT, VERY LOW VOLUME LEVEL. YOU CAN'T AFFORD TO SPEND A WHOLE LOT OF MONEY ON THE OPERATION OF THAT. WE HAD ABOUT 150 WELLS CONNECTED IN AND WORKING IN A NETWORK BY THE '86, BY JANUARY OF '86.

WAGNER-BROWN HAD GIVEN US A 300 WELL FIELD TO AUTOMATE. WE WERE DOING IT 30 WELLS AT A TIME. THEY WOULD HAND ME A CHECK FOR \$150,000 ON A LIST OF 30 WELLS AND SAY, "HURRY AND FINISH THAT AND I'LL GIVE YOU ANOTHER CHECK". THAT WAS HARD TO TAKE.

COX

REALLY BAD.

DEAN

BUT IT ALL WENT AWAY IN ONE WEEK-----IN JANUARY, '86. WHEN THE PRICE WENT FROM \$35 TO \$9 AND EVERYBODY PULLED THEIR HORNS IN AND WENT AWAY. I LOST THIS COMPANY IT HAS TAKEN ME ALL THESE YEARS TO RECOVER. I'M STILL NOT FULLY RECOVERED.

COX

WHAT ARE YOU DOING RIGHT NOW?

DEAN

ABOUT TEN YEARS AGO, THE STATE OF TEXAS WROTE ME A LETTER AND SAID THAT THEY SAW I WAS A REGISTERED PROFESSIONAL ENGINEER AND WANTED TO KNOW IF I WOULD LIKE TO HELP THEM DO TECHNOLOGY WORK FOR SCHOOLS. I SAID, "ABSOLUTELY." I FIGURED I WOULD NEVER HEAR FROM THEM AGAIN. ABOUT A MONTH LATER, I GOT A CALL FROM A SUPERINTENDENT AT IOLA, WHICH IS A TOWN NEAR COLLEGE STATION. WE WERE LIVING IN COLLEGE STATION. THEY SAID; YOU ARE ON THE LIST OF ENGINEERS THAT ARE SUPPOSED TO COME AND HELP US DO THIS TECHNOLOGY STUFF. DO YOU WANT TO, COME SEE ME. I SAID, "YES SIR. I'LL BE RIGHT OVER."

AND SO, WE STARTED A NEW LITTLE COMPANY CALLED "EDUCATIONAL ELECTRONICS" AND IT IS STILL RUNNING. I'M WELL AND HAPPY LIVING IN PITTSBURGH, TEXAS.

COX

SO, THIS HAS TO DO WITH SCHOOLS?

DEAN

YES SIR. ABSOLUTELY. WE DO ALL KINDS OF ELECTRONICS FOR SCHOOLS, COMPUTER NETWORKS, WIRELESS NETWORKS, WIRING, FIBER OPTICS, WHATEVER THEY NEED. WE CAN DO ANY OF IT.

COX

YOU DO ONLY THE HARDWARE OR DO YOU DO SOFTWARE?

DEAN

NO. WE DO THE WHOLE THING. WE PUT THE WHOLE THING TOGETHER TO MAKE IT WORK. WE BUY WHATEVER WE NEED TO BUY AND PUT IT TOGETHER.

COX

WE DON'T KNOW HOW EXTENSIVE BUT THERE IS AN ARTICLE IN THE PAPER THAT ONE OF THE DALLAS SCHOOL SYSTEMS WAS BUYING QUITE A LARGE NUMBER OF LAPTOPS FOR THEM, THE FIFTH GRADERS.

DEAN

I DON'T REALLY SELL COMPUTERS. IT IS A VERY COMPETITIVE FIELD. THEY ARE SO

READILY AVAILABLE FROM SO MANY SOURCES.

COX

IT MENTIONED THE MANUFACTURER, BUT I DON'T KNOW WHICH ONE IT WAS. SO, THAT IS YOUR BIG PROJECT RIGHT NOW?

DEAN

MY BIG PROJECT HAS BEEN FOR TEN YEARS DOING WORK FOR SCHOOLS ALL OVER EASTERN TEXAS. I'LL GIVE YOU AN EXAMPLE; TWO YEARS AGO, A LITTLE SCHOOL DISTRICT CALLED RIVER CREST, NORTH OF MT. PLEASANTON, WAS BUILDING A NEW HIGH SCHOOL. THEY NEEDED SOMEONE TO TAKE CARE OF THE INFORMATION TECHNOLOGY PORTION OF THAT SCHOOL, ALL OF IT. THIS CALLED TO PUT ALL THE WIRES IN THE SCHOOL FOR THE COMPUTERS, PUT FIBER OPTIC BETWEEN THAT BUILDING AND THE OTHER BUILDINGS, PUT IN VIDEO FACILITIES SO THAT THEY COULD HAVE TELEVISIONS IN EACH CONFERENCE CLASS ROOM AND ALL THAT.

THEY GAVE ME A TURNKEY JOB TO BUILD ALL OF THAT AND TURN IT OVER TO THEM AND WE DID THAT. WE TURNED IT OVER TO THEM. THEY TURNED IT ON AND IT ALL WORKED. THERE WAS ONE TELEVISION THAT DIDN'T WORK. I SAID, "NOW, THAT CAN'T BE". WE TESTED EVERY ONE OF THEM. SO, I WENT WITH THE TECHNOLOGY PERSON TO THAT ROOM THEN. THEY FORGOT TO PLUG IT IN.

COX

PRETTY HIGHLY-----

DEAN

HIGH TECH. THEY THINK WE ARE PRETTY GOOD.

COX

YOU ANSWERED A QUESTION I WAS THINKING ABOUT SO I DON'T NEED TO ASK IT NOW.

DEAN

WE DID A NICE JOB AND WE ARE PROUD OF IT. THEY ARE PROUD OF US.

COX

THE PEOPLE WHERE YOU WENT WERE CAPABLE OF KNOWING WHAT THEY HAD AND USING THE FULL BENEFIT.



DEAN

TWO YEARS AGO, I BECAME AWARE OF THIS. THE STATE OF TEXAS WAS GIVING GRANTS TO (????) TO DO WHAT THEY CALL COMMUNITY NETWORK. THAT IS COMPUTERS AND COMMUNICATIONS TO SERVE THE NEEDS OF THE PEOPLE OF THE COUNTY, CALLED, COMMUNITY NETWORK.

I APPROACHED THE SUPERINTENDENT OF THE SCHOOLS IN PITTSBURG. CAMP COUNTY HAS ONLY ONE SCHOOL DISTRICT, PITTSBURG INDEPENDENT SCHOOL DISTRICT. I GAVE THEM A LITTLE SKETCH AND I SAID, "THE STATE IS PROVIDING GRANTS TO DO THIS. WE CAN DO THIS. ARE YOU INTERESTED?" HE SAID, "YOU WILL HAVE A CALL TOMORROW." THE TECHNOLOGY GUY CALLED ME THE NEXT DAY. WE GOT BUSY AND WROTE AGRANT REQUEST. IT WENT INTO THE STATE AND GOT A QUARTER MILLION GRANT. BO PILGRAM (SP???) OWNER, PRESIDENT OF ????? PILGRAM'S PRIDE CHICKEN WROTE US A \$25,000 CHECK FOR THE LOCAL PART OF THE MONEY.

WE GOT BUSY AND BUILT A COMMUNITY NETWORK SPANNING MOST ALL OF CAMP COUNTY. WE PUT IN 43 COMPUTERS AT VARIOUS PLACES AROUND THE COUNTY THAT ARE FREE FOR ANYBODY TO USE ANYTIME THEY ARE OPEN. WE HAVE CLUSTERS OF COMPUTERS , LIKE TEN AT A TIME, WE HAVE OTHERS IN CLUSTERS OF TWO. WE HAVE, FOR INSTANCE, TWO COMPUTERS INSTALLED IN A COUNTRY STORE AT LEESBURG, TEXAS. THOSE ARE HOOKED UP WITH VERY HIGH SPEED CONNECTIONS. PEOPLE CAN WALK IN OFF THE STREET, SIT DOWN, AND USE THEM FOR FREE.

COX

THEY CAN DO RESEARCH, AND DO -----

DEAN

ANYTHING THEY WANT TO DO. ANYTHING THAT THE COMPUTER WILL ALLOW. IT HAS BEEN WELL RECIEIVED. WE HAD A LITTLE DIFFICULTY WITH THE SENIOR CENTER THERE GETTING THEM TO HAVE A VISION (OF WHAT) IT COULD MEAN TO THEM. WE OFFERED TO PROVIDE THEM WITH TWO COMPUTERS AND HOOK THEM UP IN THE NETWORK. WE HAD TROUBLE GETTING THEM TO LET US DO IT. THEY HAD A HARD TIME SEEING HOW SENIORS AT A SENIOR CENTER WOULD FIND THAT INTERESTING OR USEFUL. WE DID MANAGE TO PREVAIL AND GET THEM INSTALLED. THEY LOVE IT. THOSE COMPUTERS, YOU HAVE TO STAND IN LINE TO GET ON THEM. THESE ARE OLD PEOPLE.

COX

THEY FEEL LIKE THEY ARE DONG SOMETHING. MANY ARE NOT THAT SENILE, YOU KNOW. A LOT ARE WELL AWARE BUT DON'T HAVE THE FACILITIES TO WORK THEM.

DEAN

THAT'S RIGHT. IT TAKES A LITTLE STIMULATION TO GET THEM STARTED.

COX

WE ARE INTO AN INTERESTING AREA HERE. IT IS MY UNDERSTANDING THE FEDERAL GOVERNMENT HAS SOMETHING TO DO WITH THIS AS A RESULT OF THE SCREWUP IN THE BALLOTING IN FLORIDA IN THE LAST ELECTION. A LOT OF AREAS ARE GOING TO ELECTRONIC BALLOTING MACHINES. I'M SURE YOU ARE FAMILIAR WITH THOSE. WHAT DO YOU THINK THE OUTCOME OF THAT IS GOING TO BE?

DEAN

OH, ITS GOING TO GO THAT WAY. I MEAN THERE IS NO DOUBT IN MY MIND IT'S A MORE RELIABLE, A DEPENDABLE WAY OF ACCUMULATING INFORMATION THAN CHADS OR PUNCHES. I MEAN, THERE IS NO DOUBT IN MY MIND ABOUT THAT.

COX\

YOU HEAR CONTROVERSIES YOU KNOW. THERE IS NO RECORD AND SO ON SO FORTH. THEY ARE NOT ALWAYS FOOLPROOF. PEOPLE COULD TAMPER WITH IT -----THEY HAVE BEEN TAMPERING WITH PAPER BALLOTS FOR YEAR.

DEAN

LET ME ASK YOU A QUESTION. YOU ARE FAMILIAR WITH A.T.M.

COX

A LITTLE BIT. NOT MUCH.

DEAN

DO YOU THINK THEY ARE PRETTY RELIABLE?

COX

YES.

DEAN

PEOPLE ARE KIND OF CAREFUL ABOUT MONEY. THEY DON'T LIKE TO GIVE IT AWAY.

COX

I WOULD SAY SO, YES.

DEAN

THEY LIKE TO KEEP RECORDS OF TRANSFERS OF MONEY. SO, ANYBODY CAN WALK UP THE STREET AND SWIPE A CARD AND GET CASH IN THEIR HANDS. THE TECHNOLOGY IS PRETTY MINIMAL.

COX

I WOULD SAY SO..

DEAN

IF IT IS GOOD ENOUGH TO HELP PEOPLE KEEP TRACK OF THEIR MONEY, IT PROBABLY IS GOOD ENOUGH TO HELP THEM KEEP TRACK OF THEIR VOTES.

COX

I CAN JUST FORESEE SOME SPOILSPORTS, YOU KNOW, THAT ARE GOING TO HAVE TO GO TO COURT WITH IT AND CHALLENGE WHAT THE ----- ARE THE COURTS CAPABLE OF HANDLING THAT. I THINK THEY ARE.

DEAN

I THINK SO, YEAH. I THINK-----

COX

MOST OF THE COURTS ARE ELECTRONICALLY CONTROLLED ANY MORE,

DEAN

REASON USUALLY PREVAILS IN THE LONG RUN. YOU MAY HAVE SOME ABBERATIONS EARLY ON, BUT IF IT IS A LOGICAL THING, GOOD FOR SOCIETY, IT USUALLY WILL EVENTUALLY HAPPEN. AND HAPPEN IN A GOOD FORM. IT WILL TAKE A WHILE TO GET IT IRONED OUT SO THAT IT IS AS DEPENDABLE AND EVEN TRACK A VOTE AS EASY AS IT IS TO KEEP A TRACK OF MONEY LIKE THE A.T.M. MACHINES., WHICH IS TO SAY ADEQUATE FOR THE PURPOSE.

COX

ONE OF THESE DAYS, YOU ARE GOING TO RETIRE?

DEAN

I HOPE NOT. THE MOST RECENT DEVELOPMENT OUT OF THIS COMMUNITY NETWORK, IT BECAME OBVIOUS THAT YOU NEED SOME WAY (OF) EARNING MONEY TO PROVIDE FUNDING FOR THIS KIND OF NETWORK AFTER THE GRANT RUNS OUT. THE GRANT WAS A ONE YEAR GRANT. IN THAT GRANT YEAR, THERE WERE NO MORE MONIES COMING FROM THE STATE. THE QUESTION IS, WHAT CAN YOU DO TO MAKE INCOME THAT WOULD PREVAIL AND MAKE THIS A PERMENANT, MORE OR LESS PERMENANT THING. THE ANSWER WAS TO SELL SERVICE, IT HAS TO BE WIRELESS SERVICE TO PEOPLE ON THE FARMS. WHO PRESENTLY ONLY HAD DIAL UP THROUGH A.O.L. OR SOMETHING. TERRIBLE SERVICE.

I APPROACHED THE SCHOOL ON LETTING ME MANAGE THAT NETWORK FOR THEM, MAINTAIN IT, EXPAND IT AND PAY THEM ROYALTIES. IN EXCHANGE FOR MY SELLING SERVICE TO THE CITIZENS OF CAMP COUNTY. IT SEEMED LIKE A SENSIBLE THING AND THEY SAID, YES.

COX

WHAT TYPE OF TRANSMITTER TOWERS DO YOU HAVE TO HAVE?

DEAN

WE NEGOTIATED WITH THE CITY OF PITTSBURG TO USE A VERY LARGE WATER TOWER THAT THEY HAVE IN THE MIDDLE OF TOWN AS A HUB FROM WHICH WE WOULD COMMUNICATE. WE HAD NINE RADIOS MOUNTED ON THAT WATER TOWER POINTING TO VARIOUS PARTS OF THE COUNTY. THEN WE PUT IN SMALL ?????? TOWERS OUT AT VARIOUS PLACES AROUND THE COUNTY, TYPICALLY ONE HUNDRED FEET OR LESS AND HAVE A HIGH SPEED BACKBONE SYSTEM THAT CONNECTS WITH THE WATER TOWER DOWN TOWN AND THE TOWERS AROUND THE COUNTY. HIGH SPEED LIKE 20 MILLION BYTES A SECOND. CONNECTIONS BETWEEN THOSE TOWERS.

COX

I WOULD THINK THAT WOULD BE WONDERFUL IN AN EMERGENCY REPSONSE.

DEAN

YOU ARE NOT KIDDING. IT HAS GREAT POTENTIAL THAT IS NOT BEING FULLY EXPLOITED FOR THAT YET. IT WILL BE AND ITS THERE. ITS AVAILABLE AND IS MORE OR LESS PERMANENT. THE EQUIPMENT IS PROBABLY GOOD FOR TWENTY YEARS. IT IS A VALUABLE ASSET TO THAT COUNTY. I IS BEING QUITE WELL RECEIVED. WE ARE INVITING PEOPLE WHO

ARE WILLING TO PAY FOR THE SERVICE. IT IS GROWING QUITE NICELY. SOME NEW TECHNOLOGY HAS COME ALONG. TREES WERE A BIG PROBLEM IN THIS PART OF EAST TEXAS, VERY HEAVY FOLIAGE AND VERY TALL TREES. MOST OF THE TECHNOLOGY THAT WE ARE TALKING ABOUT IS IN THE 2.4 OR 5.8 GIGAHERTZ BANDS, THE MICROWAVE BANDS. WJOC ARE VERY SENSITIVE TO TREES OR ANY OTHER OBSTRUCTIONS. THIS STUFF PENETRATES OBSTRUCTIONS.

IN ORDER TO CONNECT INTO THE SYSTEM, YOU JUST ABOUT HAD TO HAVE A 60 OR 70 FOOT POLE TO GET THE ANTENNA ABOVE THE TREES. THAT WAS NOT VERY POPULAR WITH THE LADIES. THEY DON'T LIKE POLES LIKE THAT OUTSIDE THEIR HOUSES. THEY ARE NOT VERY ATTRACTIVE. ALSO, THEY ARE EXPENSIVE. TURNED OUT TECHNOLOGY CAME TO OUR ASSISTANCE DURING THE PERIOD WHEN WE WERE BUILDING THIS NETWORK. A COMPANY STARTED SELLING A TECHNOLOGY BASE ON 900 BEYERS (?????) WHICH IS MUCH, MUCH LOWER.

COX

SOUNDS LIKE YOU GOT AN ON THE GROUND EXPERIMENTAL PROJECT THAT TURNED OUT VERY SATISFACTORY.

DEAN

ITS TURNING OUT VERY SATISFACTORY. MOST PEOPLE CAN HAVE A CONNECTION IN THEIR HOME WITH REAL SNAPPY SERVICE. THEY ARE VERY HAPPY WITH IT. I MIGHT EVEN BE SUCCESSFUL AND MAKE A DOLLAR.

CONX

I CAN SEE THAT. A LOT OF THE AREAS OF THE COUNTRY, I COULD SEE WHERE THAT WOULD FIT IN VERY WELL.

DEAN

WE ARE LOOKING AT 25 ADDITIONAL SCHOOL DISTRICTS.

COX

SOUNDS LIKE AN R.E.A. PROJECT DOESN'T IT?

DEAN

OR, U.S. RURAL UTILITY SERVICES. IS THE NAME OF THE PROJECT.

COX

I WAS THINKING ABOUT THE R.E.A.

DEAN

THEY ARE ALSO R.U. S. ALSO (THAT) DO POWER SYSTEMS AND WATER SYSTEMS.

COX

COMMERICAL COMPANIES ARE NOT INTERESTED IN PUTTING A LOT OF MONEY IN. THERE HAS TO BE A LOT OF MONEY COMING BACK.

DEAN

EXACTLY. I TALKED TO THEM LAST WEEK AND THEY FEEL WE HAVE DONE OUR HOMEWORK. WE HAVE A DEMONSTRATION PROJECT IN PLACE. WE WOULD NOT EVEN BOTHER WITH A CITY LIKE TEXARKANA. THEY DON'T NEED IT. A LITTLE TOWN LIKE RIVERCREST WHERE WE BUILT THAT HIGH SCHOOL, THEY CAN'T WAIT. THEY HAVE HOMEBOUND STUDENTS.

COX

ALL OF A SUDDEN, COUNTRY SCHOOLS ARE GOING TO BE ABLE TO COMPETE WITH THE BIG CITY SCHOOLS.

DEAN

EXACTLY. WHO WANTS TO LIVE IN A BIG CITY?  
(DISCUSSION FOLLOWS CONCERNING ABILITY TO WORK FOR SOME PEOPLE IN THEIR HOME ENVIRONMENT AND HOW A MAN LIVING IN THE RURAL AREA DOES HIS WORK FROM THERE INSTEAD OF IN PLANO, TEXAS)

COX

I WOULD LIKE TO COME BACK TO THIS BUT I WANT TO FINISH UP ON THIS-----

DEAN

WE HAVE KIND OF WANDERED PRETTY FAR ASTRAY.

COX

I THINK IT IS A VERY IMPORTANT WHAT THE BASIC PREMISES (WHERE) WE STARTED OFF IN THE INTERVIEW. YOU MENTIONED EARLIER THAT YOU HAD A FAMILY. (DO) YOU HAVE GRANDCHILDREN AT THIS STAGE AND TIME? SO, HOW MANY CHILDREN DO YOU HAVE?

DEAN

MY WIFE AND I HAVE BETWEEN US, FIVE. SHE HAD A BOY AND A GIRL AND I HAVE TWO BOYS AND A GIRL. MINE ARE A LITTLE OLDER THAN HERS. SHE IS A LITTLE YOUNGER THAN ME. I HAVE ONE BOY (WHO) HAS A COMPUTER COMPANY IN PENNSYLVANIA. A VERY, VERY HIGH TECH COMPUTER COMPANY.

THE SECOND SON IS A FAMILY DOCTOR IN PHILADELPHIA. MY DAUGHTER IS A SYSTEMS ANALYST FOR A LARGE MULT-NATIONAL COMPANY IN PENNSYLVANIA THAT DOES PRETTY ADVANCE STUFF. IN FACT, HER---THE LAST PRESIDENT SHE WORKED FOR IN PARIS SPOKE OF HER AS BEING AN URBAN LEGEND.

COX

IT SOUNDS TO ME LIKE FOR ARMY BRATS, THEY ARE DOING VERY WELL.

DEAN

VERY WELL. THE LOWEST DEGREE THEY HAVE IS A MASTERS. (?????'S) TWO CHILDREN APPEAR TO BE CUT FROM THE SAME CLOTH. YOU WOULD THINK THAT THEY WERE BROUGHT UP TOGETHER WHEN IN FACT, THEY WERE NOT. HER SON HAS A MASTERS IN CITY MANAGEMENT AND HE IS AN ASSISTANT CITY MANAGER IN WICHITA, KANSAS.

HER DAUGHTER IS AN ORDAINED METHODIST MINISTER AND ASSISTANT PASTOR OF A METHODIST CHURCH IN CARBONDALE, ILLINOIS. ECUMINISM IS ALIVE AND WELL AT OUR HOUSE.

COX

SOUNDS LIKE YOU ARE VERY PROUD OF YOUR FAMILY.

DEAN

I'M VERY PROUD.

COX

OBVIOUSLY, YOU DON'T INTEND TO RETIRE AND FISH AND HUNT UNLESS YOU HAVE TO.

DEAN

I'LL QUIT WORKING WHEN IT IS NO LONGER POSSIBLE FOR ME TO WORK.BECAUSE I ENJOY IT TOO MUCH. I COULD NOT GO AWAY FROM THAT.

COX

I THINK WHEN WE STARTED OFF, YOU KNOW, YOU CAME FROM A SMALL TOWN, YOU HAD SOME HELP. SCHOOL HELPED YOU GET TO WHAT YOU WANTED TO DO. THAT'S EXACTLY WHAT YOU ARE DOING NOW. YOU ARE HELPING A LOT OF CHILDREN ACHIEVE THEIR GOALS.

DEAN

WELL, I SURE HOPE SO. THAT'S WHAT WE ARE TRYING TO DO.

COX

ON BEHALF OF THE MUSEUM, I WOULD LIKE TO THANK YOU FOR TAKING THE TIME FOR THE ORAL HISTORY. I PERSONALLY HAVE ENJOYED IT,

DEAN

SO HAVE I.

COX

FROM THE POINT OF VIEW OF A YOUNG MAN THAT IS A LITTLE BIT YOUNGER THAN YOU ARE, THE THINGS YOU DID AND ACCOMPLISHED IN WORLD WAR II, PROBABLY KEPT ME OUT OF THE JAPANESE ISLAND INVASION, SO THANK YOU VERY MUCH FOR THAT.

DEAN

THAT MIGHT HAVE SAVED YOUR LIFE. IT WOULD HAVE BEEN A VERY, VERY BLOODY THING.

COX

THANK YOU SIR.

END OF TAPE.