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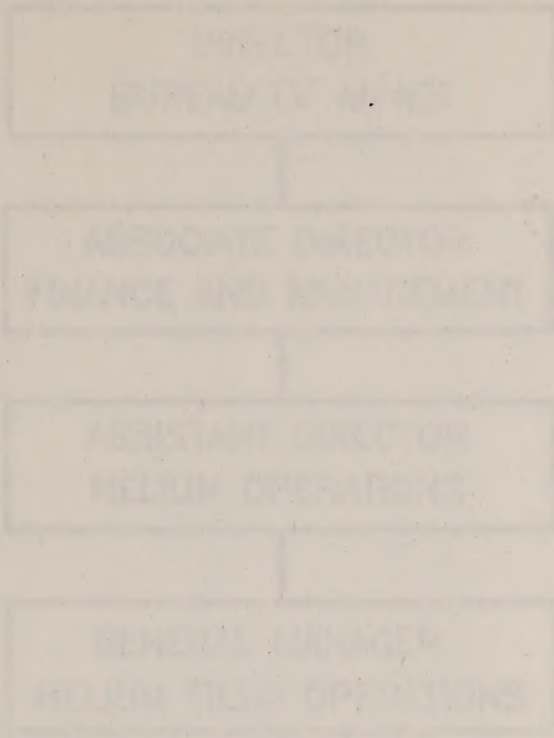
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ORGANIZATION CHART
HELIUM FIELD OPERATIONS



HELIUM FIELD OPERATIONS

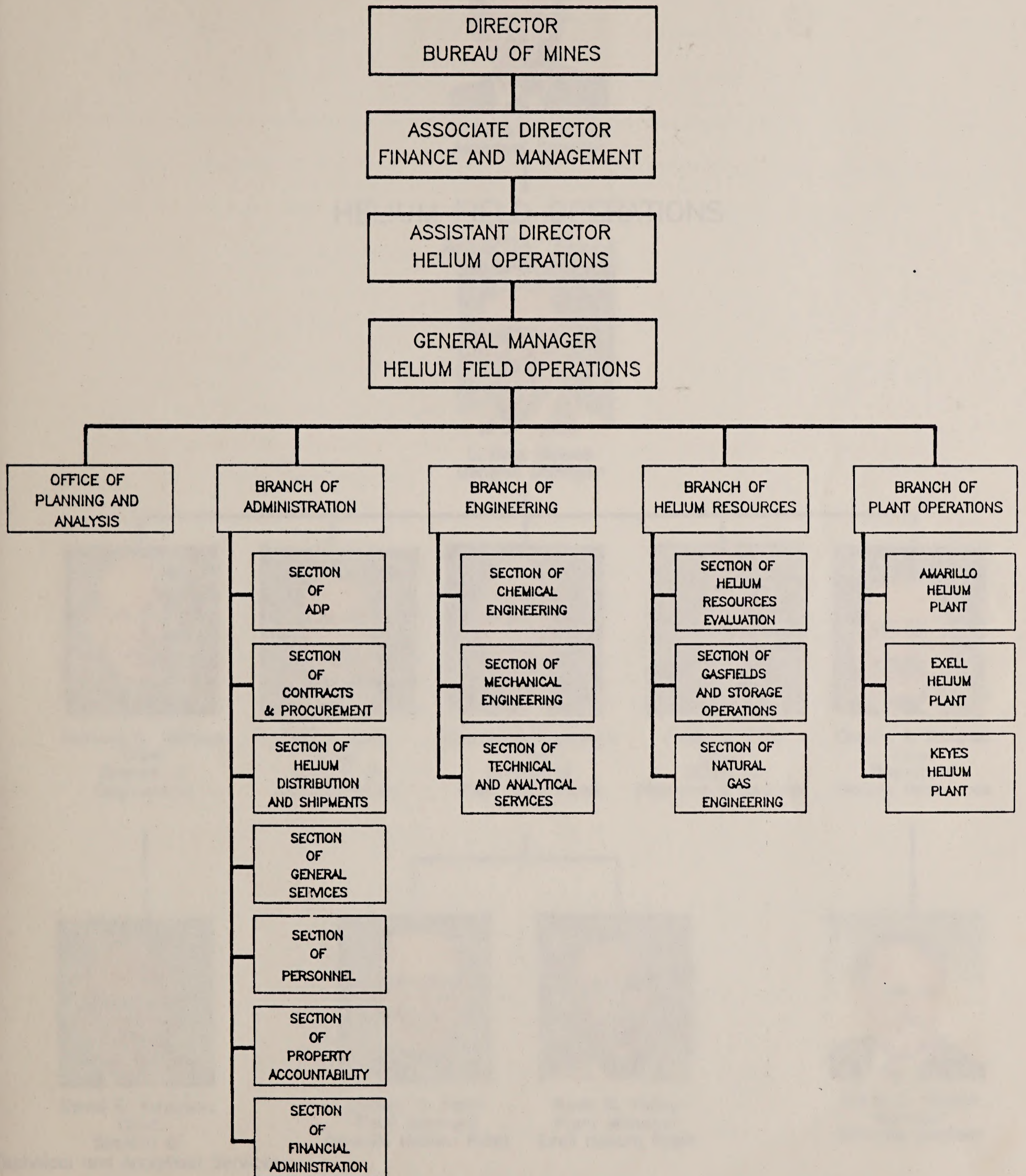
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ORGANIZATION CHART HELIUM FIELD OPERATIONS



HELIUM OPERATIONS
Washington, D.C.

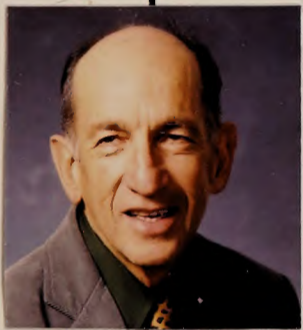


Armond A. Sonnek
Assistant Director

HELIUM FIELD OPERATIONS
Amarillo, Texas



L. Dale Bippus
General Manager



Herbert S. Kalman
Chief
Branch of
Engineering



Billy J. King
Chief
Branch of
Administration



Charles A. Hartman
Chief
Branch of
Plant Operations



Philip C. Tully
Chief
Office of
Planning & Analysis



Claude A. Tongish
Chief
Branch of
Helium Resources



David E. Emerson
Chief
Section of
Technical and Analytical Services



James C. Baird
Plant Manager
Amarillo Helium Plant



Nash R. Folley
Plant Manager
Exell Helium Plant



Bruce L. Hanlon
Manager
Cliffside Gasfield

HELIUM OPERATIONS
Washington, D.C.



General Manager
Helium Division

HELIUM FIELD OPERATIONS
Various Areas



Area Manager
Helium Division



Division A Manager
Helium Division

Division B Manager
Helium Division

Division C Manager
Helium Division

Division D Manager
Helium Division

Division E Manager
Helium Division



Section 1
Helium Division



Section 2
Helium Division

Section 3
Helium Division



Section 4
Helium Division

THE FEDERAL HELIUM PROGRAM

The Bureau of Mines, Helium Operations, is responsible for the administration of the Federal Helium Program. The makeup of this organization includes an Assistant Director--Helium Operations, Armond Sonnek, located in Washington, DC; General Manager--Helium Field Operations, L. Dale Bippus, and five organizational groups under his direction; all located in or near Amarillo, Texas.

The overall helium program is under the direction of the Assistant Director, and all contacts within the Department of the Interior and other Executive Branch organizations are made by that office.

The General Manager--Helium Field Operations has oversight of the operations of the field facilities. These facilities include the administrative, management, and engineering offices, located in downtown Amarillo; the Exell Helium Plant, about 30 miles north of Amarillo; the Amarillo Helium Plant, Technical Services Laboratory and Central Shops, all located on a site about 7 miles west of downtown Amarillo; Cliffside Gas and Storage Field, 15 miles northwest of Amarillo; Keyes Helium Plant, a former gas processing facility, but now inactive which is located in Keyes, Oklahoma; and the Satanta Maintenance Station in Satanta, Kansas.

The organization's functions are carried out by five Branches: the Office of Planning and Analysis; Branch of Helium Resources; Branch of Engineering; Branch of Plant Operations; and the Branch of Administration.

Office of Planning and Analysis - Chief, Dr. Philip C. Tully

This group formulates and evaluates plans and projects for the helium program to ensure their effectiveness. They serve as a clearinghouse for

information on the program going to the public and private industry and to the higher echelons of the Department and other Executive Branch offices and to Congress. This group, through contacts with helium users, both Federal and private, and helium producers, tracks helium supply and demand patterns and forecasts future trends for use in planning and managing the helium program.

Branch of Helium Resources - Chief, Claude A. Tongish

This Branch is responsible for the evaluation of the Nation's helium supplies and resources and for the management and operation of the helium storage and natural gas field and its ancillary 400-plus mile pipeline system.

Evaluation of the helium supplies and resources involves collection and analysis of data on the helium-bearing gasfields throughout the country. In order to identify those fields with helium contents of interest, a gas sampling program is conducted which now includes almost 19,000 gas samples from wells or pipelines. Those fields of interest are then studied by reservoir engineers to evaluate the helium resources.

Management and operation of the helium storage and natural gas field and pipeline systems requires application of engineering techniques to most efficiently store, produce, and deliver helium and natural gas from the Cliffside Gas and Storage Field. This involves injection of storage gases so that maximum recovery will be achieved. Day-to-day field operations include well and pipeline maintenance and compilation and analysis of gas measurement data.

Branch of Engineering - Chief, Herbert S. Kalman

This Branch is responsible for providing chemical and mechanical engineering services for the operation of the Bureau's helium plants. The Technical Services Laboratory, which conducts all gas analytical services for Helium Field Operations is also included in this Branch.

The Engineering services provided include all the design of helium separation related processes, along with the acquisition and oversight of the installation of the process equipment. The Branch prepares plans, specifications, and drawings for new equipment and maintains up-to-date layouts of piping and machinery. Quality control of the helium product is also provided by this group.

The Section of Technical and Analytical Services laboratory provides analytical services for the helium survey program, quality control program, and for special troubleshooting projects where required. It prepares standard gas samples for use in calibration of gas measurement instruments.

Branch of Plant Operations - Chief, Charles A. Hartman

This segment of the organization operates and maintains the purification and liquefaction plants and the helium shipment facilities. Operations to carry out these functions are conducted at the Amarillo and Exell Helium Plants.

The Amarillo plant's principal function is the filling and shipping of helium-filled cylinders and module tubes. Pure helium is supplied to Amarillo from the Exell plant by pipeline. Included at the Amarillo plant are the Central Shops which provide machining, welding, and instrumentation services for the total organization.

The Exell plant is now the only Government gas-processing, helium-extraction facility. It processes gas from the Cliffside Gas and Storage Field to supply helium to other Federal agencies and to private industry as required. The plant produces both gaseous and liquid helium for shipment throughout the U.S. All shipping containers, except cylinders, are maintained at the plant.

Branch of Administration - Chief, Billy J. King

This Branch provides administrative support in all areas, except accounting, for Helium Field Operations. These services include a personnel office, contract administration, procurement, property and stock control, data processing, budgeting, and general office services which provides typing, communication, and office supplies. The section overseeing the distribution and shipment of helium is also located in this Branch. This group is responsible for sales and directing shipments of helium.



Armond A. Sonnek-Assistant Director--Helium Operations

Mr. Sonnek joined the Bureau of Mines Helium Operations in 1953 as a Plant Control Chemist. He has been with Helium Operations since that time except for two years spent with another Federal agency. His time with Helium Operations has been spent in several different capacities and in several locations. His jobs have included plant chemist, research chemist, customer services, staff assistant and, finally, Assistant Director. He has worked in Shiprock, New Mexico, Amarillo, Texas, and Washington, DC. He has been presented the Department of Interior's Distinguished Service Award for his technological and managerial contributions.

Armond was born in San Bernardino, California, but his family moved to North Dakota, when he was very young. He attended public schools there and, in 1951, he received a Bachelor of Science degree in chemistry from Jamestown College in Jamestown, North Dakota. During his Federal service career, Armond participated in the Department's Junior Management Training program which required him to spend 9 months in Washington, DC. While there, he completed 12 hours of college work in Government Administration at George Washington University.

Armond and his wife, Marjorie, reside in Annandale, Virginia. Their three sons and daughter also live in the Washington, DC metropolitan area. Armond's hobbies include radio controlled model planes, painting, and photography.



L. Dale Bippus - General Manager--Helium Field Operations

Mr. Bippus is a graduate of Amarillo High School and has an Associate Degree from Amarillo College. He obtained his Bachelor of Science Degree in Chemical Engineering from Texas Tech University, and did graduate work in Business at West Texas State University. Mr. Bippus is a Registered Professional Engineer in the state of Texas, and in 1985 received the Department of Interior's Meritorious Service Award for his outstanding contributions in Federal service. He is currently President of the Texas Panhandle Federal Executive Association, a member of the Rotary Club of Amarillo, National Society of Professional Engineers, and Texas Society of Professional Engineers. He has been active in United Fund for several years, and is Vice-Chairman of the Amarillo Combined Federal Campaign. He has over 32 years service with Helium Operations.

Dale is a native Amarilloan. He and his wife Judi have two sons and one daughter. Much of Dale's spare time is spent with woodworking and fishing.



Philip C. Tully - Chief, Office of Planning and Analysis

Dr. Tully has been with the Bureau since 1964, when he began work in phase equilibria studies with the Helium Research Center. He transferred to the General Manager's staff in 1975. He has been in his present position since 1983. Prior to employment with the Bureau, he worked for Koppers Company, Inc., for 13 years in polystyrene production. He has been given three special achievement awards for his outstanding work with Helium Field Operations. Phil earned his B.S. degree in 1947 from Iowa State University. His M.S. was awarded by the University of Pittsburgh in 1955 and in 1965 his Ph.D. was conferred by Oklahoma State University.

Phil has been active in church and community affairs. He has served as president of the Rotary Club, the American Chemical Society and the board of directors of his church. He has also taught evening classes at Amarillo College and West Texas State University in their math and chemistry departments.

The Tullys have been married for 43 years and have two sons and two daughters. Helen is a dietitian at a local hospital. Phil's interests include skiing, fishing, traveling, gardening, and photography.

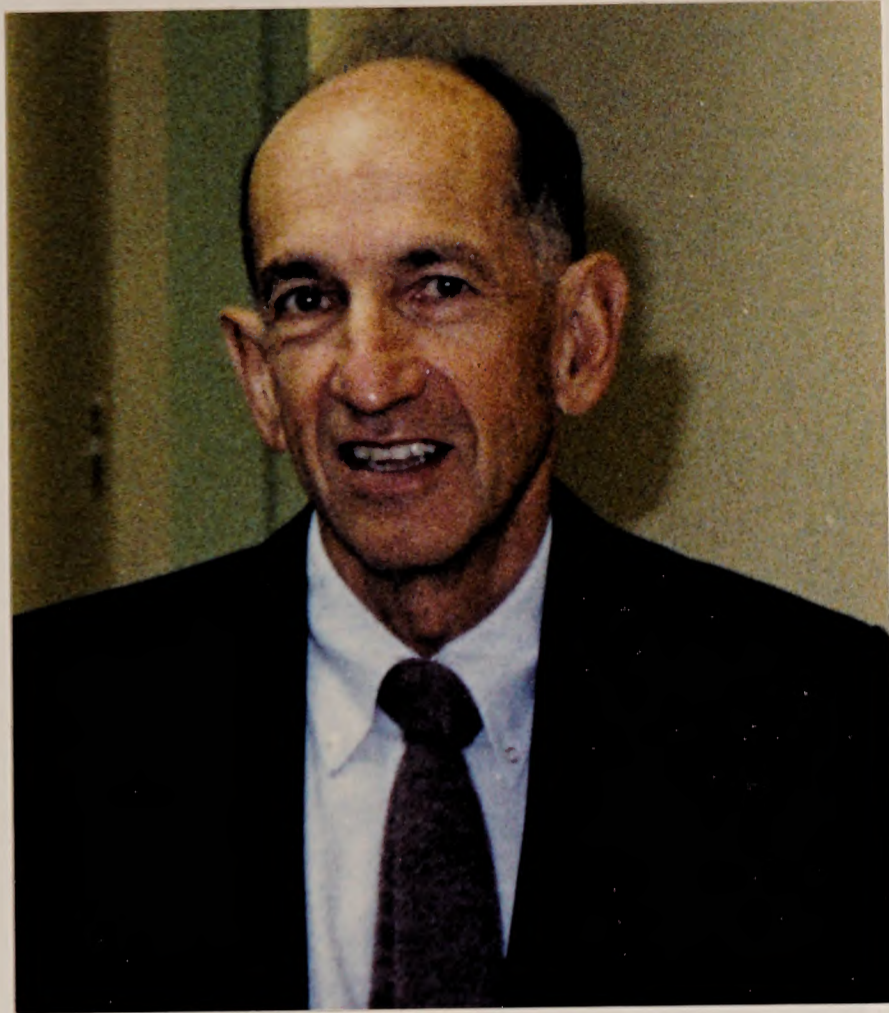


Claude A. Tongish - Chief, Branch of Helium Resources

Mr. Tongish is a graduate of the University of Houston where, in 1959, he received a Bachelor of Science Degree in both Petroleum Engineering and Mathematics. After graduation, he went to work on a geophysical crew for General Geophysical Company. In November of 1959, he was employed by Helium Field Operations as a Petroleum Engineer. Including military service, he now has over 30 years of Government service. Claude was promoted to his current position in June 1988. During his career he has received an award for contributions to a special project for the Federal Energy Administration and, also, PMRS awards.

Claude and his wife, Mabel, have one daughter, Karen, who now resides in New York City. Claude enjoys target shooting with pistols and he plays golf. He has lived in Amarillo for about 29 years.

Claude has been a member of the Society of Petroleum Engineers for over 33 years and is, also, a Registered Professional Engineer in Texas. He is a member of the American Legion and is Treasurer of the local BPO Elks Lodge.



Herbert S. Kalman - Chief, Branch of Engineering

Mr. Kalman graduated with a Bachelor of Science degree from the University of Missouri in 1945. His degree was conferred from the School of Engineering in the Chemical Engineering discipline. After graduation, he went to work in private industry in Houston, Texas, until 1952. At that time, he came to work for Helium Field Operations. He has been in his present position since June 1976. In 1983, Herb received a Special Achievement Award for his outstanding work.

Herb has lived in Amarillo since his employment with the Bureau in 1952. His family consists of his wife Adele and two daughters. Herb is a long standing member of the American Chemical Society.



Billy J. King - Chief, Branch of Administration

Mr. King has been employed by Helium Field Operations for over 33 years. He worked in the helium plant for a number of years while earning a Bachelors Degree of Business Administration at West Texas State University. He then transferred to the Branch of Administration's data processing group. Later, he was awarded an MBA Degree from West Texas State while continuing his employment. In 1976, he was promoted to his present position. During his career, he has received numerous awards for his performance of his duties, including several Special Act or Service Awards and an Outstanding Performance Award.

B.J. and his wife, Irene, have lived in Amarillo for 35 years. They have four sons and one daughter. His hobbies include hunting, fishing, golf, and oil painting. He is very active in his church and teaches a Sunday School class.



Charles A. Hartman - Chief, Branch of Plant Operations

Mr. Hartman has been in his present position since 1979. He came to work for Helium Field Operations in 1956 and has progressed through several jobs in the plants to supervisory and management responsibilities. His Federal service time includes 2 years in the U.S. Army. During his civilian career, he has received a Special Achievement Award and numerous incentive awards.

Charles has attended both Amarillo College and West Texas State University. In 1977, he received an Associate Degree in Applied Science with a certificate in Mid-Management Technology. He has taken several short courses in labor relations and management.

He is a lifelong resident of the Texas Panhandle area, and has resided in Amarillo since 1956. He and Peggy, his wife of 30 years, have one daughter, Kathy, who attends Texas Tech in Lubbock. Charles spends most of his off-work hours on home projects. He is very active in church work.



Bruce L. Hanlon - Chief, Section of Gasfields and Storage Operations

Mr. Hanlon was promoted to his present position in 1985. He began work in the Cliffside Gas Field in 1961, but had a break in Federal service from 1970 to 1978. These many years of work at Cliffside have enabled him to become thoroughly familiar with all phases of the operations in the field and with the attendant facilities. He received a special achievement award in 1988 for development of a training aid for pipeline welding work.

Bruce graduated from high school in Minnesota in 1952 and entered military service immediately afterward. He attended several technical schools while on active military duty.

He and his wife have lived in Amarillo over 32 years and have three children. His wife, Beverly, is a registered nurse employed at the Veteran's Administration Medical Center. Bruce enjoys the outdoors in his spare time and, in particular, mountainous country where he camps and explores on his motorcycle. He also restores antique automobiles. Bruce is a member of the American Legion.



David E. Emerson - Chief, Section of Technical and Analytical Services

Mr. Emerson received a Bachelor of Science Degree in Chemistry from Southeastern State University in Durant, Oklahoma in 1955. He came to work for Helium Field Operations in 1957. He has been in his current position since 1970, and he has three patents for equipment developed in connection with his work in analyzing or purifying helium.

Dave is listed in "American Men and Women of Science," "Who's Who in the South and Southwest," "Men of Achievement," and "Who's Who in Technology Today." He is on the Board of Directors of the Amarillo Federal Credit Union and is an Elder in his church.

Dave and his wife, Ermyne, have lived in Amarillo for 33 years. They have three children. In his spare time, Dave enjoys silversmithing and building.



Nash Folley - Plant Manager, Exell Helium Plant

Mr. Folley has been employed by the Bureau of Mines for 26 years. During this time he had experience in almost all segments of helium plant operations. He progressed from an entry level position to plant manager. During this time he received a Special Achievement Award and a Superior Performance Award, and has completed numerous continuing education courses and job-related short courses.

Nash has been married to his wife Faye for 42 years, and they have three sons and one daughter. He is involved in both church and school activities, and is a member of the Amarillo Area Field Federal Safety and Health Council. Nash likes to fish and is president of the Denim and Diamonds Square Dance Club.



Jim Baird - Plant Manager, Amarillo Helium Plant

Mr. Baird has been employed by Helium Field Operations for 33 years. He started as a Helium Plant Helper and has worked up through the ranks to his present job. He has had experience in almost all phases of plant operation and also worked at Cliffside Gas Field for 2 years. He has received two Special Achievement Awards for his contributions to the organization. While continuing with his work, Jim has earned an Associate Degree in Mid-Management from Amarillo College.

Jim has lived in Amarillo all of his life. He and his wife Frances have been married for 31 years, and have two daughters and one son. Jim enjoys all types of sports including hunting and fishing. He has coached a women's softball team for the past 6 years, and the team was ranked tenth in the state.

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