

FILE NAME: Texaco (TEX)

DATE: 1958

DOC#: TEX023

DOCUMENT DESCRIPTION: Bechdel Scope of Job Survey



REFINERY & CHEMICAL DIVISION

AGENT FOR THE TEXAS COMPANY

BECHTEL
AT ANACORTES, WASHING

JOB DATA

TYPE OF CONTRACT: NO. COST PLUS # 2525

ENGINEERED BY: BECHTEL CORP.

MATERIALS PROCURED BY: BECHTEL CORP.

JOB STARTING DATE: APR 1957, COMP. DATE: SCHED. JAN 1958, ACTUAL OCT. 1958

DURATION OF JOB: 32 WEEKS, TOTAL DAYS OF RAIN: 161

USUAL WORK WEEK: 5 DAYS, 5 HRS / DAY

LOST TIME ACCIDENTS: 42

MAN HRS. WORKED / EST. DOLLAR OF INSUR. COST (LAST REPORT) 11.2

JOB FIELD BUDGET: LABOR 12,969,700, MATL 41,900,000, TOTAL 24,869,700

JOB FIELD COST: LABOR 12,644,000, MATL 40,380,000, TOTAL 23,024,000

JOB TOOLS (EXCL. OF RENTED TOOLS) CHARGED IN 1957: 295,700, OUT 300,000, NET COST 29,300

JOB RENTED TOOLS: TOTAL RENTAL COSTS: NIL

TOTAL TOOLS COST 295,700 % OF GROSS LABOR COST 2.33

JOB EQUIPT. COST: BECHTEL EQUIPT. ONLY 1,519,500, OUTSIDE RENTALS 107,300

TOTAL EQUIPT. COST 1,626,800 % OF GROSS LABOR COST 12.8

SUPERVISION BECHTEL: W.B. HANNA, PROJ. MGR.

CLIENT PERSONNEL: E.W. LINDAUER, SUPV. IN CHARGE

SUPV. IN CHARGE: O.L. SWEET, B.M. INCE

ASST. SUPV.: R.E. ROLLER, E.M. DAUGHERTY, F.M. HENRY, G.L. WEAVER, W.J. GOULD, H.S. AITKEN, J.S. TOBIN, C.J. AREGGER, B.B. KAUFMAN, AIRBORN, R. YOUNG, V.M. CLARK, W.J. MERDER

JOB ENGINEER: W.G. KAST - SUPV. FIELD ENGR, F.E. DRISCOLL, JOB ENGR

ENGINEER: J.E. PRATT, J.R. BRÉGGREN, G.B. HILL, L.A. PETERSON

ENGINEER: H.O. REYNOLDS, H.B. PAINTER, R.W. PETERS, H.S. STILLINGS

ENGINEER: L.E. CRAIN, R.W. WESTOVER, J.M. WASTE, P.O. VA GRONE

CHIEF SURVEYOR: J.R. MELLOR

CHIEF MATL. MAN: A.G. THRO - MATL. COORDINATOR, K.E. HAGEN - MATL. SUPV.

OFF. INCHG.: W.H. CARLIN - ADM. INGR

J.V. GREEN - PAYROLL

D.M. FISHER - ACCOUNTING

P.L. SMITH - SAFETY ENGR.

R.S. BYRNES - FIRST AID

COST ENGINEER: L.L. BOWEN, R.C. SEARS, J.J. CALLAHAN, R.B. CHRISTENSEN

LABOR

GRAFT	JRNYMAN RATE	TOTAL CRAFT MANDAYS	% OF TOTAL	PEAK FORCE	DATE OF PEAK	GENERAL FOREMAN	FOREMEN	BUSINESS AGENT
REFINERY	3.65	99,855	24.6	583	6/13/58			W.D. WATSON
PIPELOR	3.65	38,867	9.6	234	6/13/58			W.D. WATSON
MINING LOR	3.76	16,280	4.0	122	5/9/58			W.D. WATSON
OPER	3.27	50,928	12.6	118	4/18/58			W.D. WATSON
ELCOP	3.61	31,505	7.8	260	6/6/58	SEE PARAGRAPH 3.1.1		W.D. WATSON
INSTR	3.12	10,984	2.7	129	11/1/57		3.9	W.D. WATSON
LABOR	2.14	61,619	15.2	369	10/1/57			W.D. WATSON
WARP	5.05	34,156	8.4	266	10/1/57			W.D. WATSON
MW. PWR	5.88	18,972	4.6	110	3/1/57			W.D. WATSON
OTHERS	8.01	36,687	9.1	129	10/1/57			W.D. WATSON
SUB TOTAL	3.52	375,276						
NONMANUAL	5.81	10,546	2.7	95	5/13/58			

CORR. -- SCOPE OF JOB SUPERVISION (B. LABOR DATA) (FIELD TO COMPLETE & SEND TO HOME OFFICE) JOB TITLE: BUDGET: B. WORKS:

QUANTITIES

1000 CU. YDS. EXCAVATED
 2000 CU. YDS. CONCRETE POURED
 66 TONS REINFORCING BAR
 89 TONS STRUCTURAL STEEL
 100 PIPING - LIN. FT.
 3,400 SQ. FT. PAVING - CONC.

NO. OF COLUMNS 42, TOTAL WT. 1,681 TONS
 FURNACES 10, TOTAL BTU. 435.1 MM
 DRUMS &/OR VESSELS 153 TOTAL WT. 1,592 TONS
 EXCHANGERS 193 TOTAL WT. 1,333 TONS
 PUMPS 315, TURBINES 111
 ELECTRIC MOTORS 637, TOTAL HP. 15,652
 SPOOLS 16,634
 BOARD MOUNTED INSTRUMENTS 1119
 THERMOCOUPLE POINTS 718
 INDIC. &/OR RECORDING CONTROLLERS 590
 CONTROL VALVES 323
 RELIEF VALVES 778
 BUILDINGS 17
 COMPRESSORS 10
 BOILERS 3
 BLOWERS 20
 TANKS 99
 STACKS 2

3. HEAVIEST LIFTS MADE

		SIZE	WT	DATE	METHOD
1	DECARBONIZING TOWER	2A-C2	145,000 ^W	2/20/68	1000 POLES
2	ALKY. DEBUTANIZER	8B-C1	100,000 ^W	2/10/68	1000 POLES
3	HYDROTREATER REACTOR	7C-C4	65,000 ^W	4/1/68	1000 POLES

CONSTRUCTION BLDGS. FLOOR SPACE (SQ. FT.)

SUPVY & ENGRG 3,500

ADMINISTRATION 3,100

ALL CRAFTS (DO NOT

WAREHOUSE

15,500

PACITY

42,960

BP&D REFINERY

JOB NUMBER

2525

MAJOR SUBCONTRACTS

CONTRACTOR	WORK	SUBCONTRACT MANDAYS	\$ VALUE	PERFORMANCE
MANSON CONSTR. CO.	WHARF & TRESTLE	10,450	1,731,605	EXCELLENT
THE BROWER CO.	ON-PLOT INSULATION	18,400	1,475,000	GOOD
C.E. MOORE & CO.	CO BOILER	6,280	978,405	GOOD
CHICAGO BRIDGE & IRON	FCC VESSELS	8,200	942,550	EXCELLENT
ANDERSON - OSBERG	GRADING	5,380	897,849	EXCELLENT
ERIE CITY IRON WORKS	MAIN BOILERS	4,040	868,706	FAIR
FIBERGLASS ENG	OFF-PLOT INSULATION	6,100	785,000	GOOD
EIFFORD CO.	BRICK BUILDINGS	6,100	609,581	GOOD
ERIC LUNDEEN	PAINTING	5,780	470,000	EXCELLENT
FLUOR PRODUCTS CO.	COOLING TOWER	1,960	419,425	EXCELLENT
		67,690		

67,690
in of total

WORK ASSIGNMENTS & JURISDICTIONAL PROBLEMS

UNLOADING MATLS.	TEAMSTERS - HAND	IRON WORKERS - POWER
WAREHOUSING MATLS.	TEAMSTERS - GENERAL	RF & ELECT - CRAFT
STRIPPING FORMS:	CARPENTERS - REUSE	LABORERS - DEMOLITION
RIGGING	BY INDIVIDUAL CRAFT	
SETTING PIPE SUPPORTS	IRON WORKERS	
HAND RAIL	IRON WORKERS OR	BOILERMAKERS
SETTING COL. PLATFORMS	BOILERMAKERS	
SETTING PUMPS	PIPE FITTERS AND	MILLWRIGHTS
FURNACE ERECTION	BOILERMAKERS	1/2 RF, 1/2 DM, TUBES
DRIVING A FRAMES	1/2 OPERATING ENGRS	1/2 TEAMSTERS
ERECTING STAGING	CARPENTERS - ALL PURPOSE	BY CRAFT WE IDENTIFIED
OTHERS:		

NOTES:

1. ALL COSTS QUOTED ARE FROM JOB FORECAST DATED OCTOBER 31, 1958
2. LABOR RATES ARE AVERAGE
3. MANHOURS QUOTED ARE FROM JOB FORECAST DATED OCTOBER 31, 1958

