M.R. WAGNER
1-14-82

SOHIO

ENGINEERING DATA
SOHIO ALASKA PETROLEUM COMPANY

SHEET NO. ____ OF ____

SUBJECT: EQUIPMENT ORDERED TO DATE

BASED ON: ____ BUDGET/AFE NO. ____

ENGINEER: ____ DEPT. APP'VL: ____ DATE: ____ FILE NO. ____

PROJECT	SEALIFT	LOCATION	EQUIPMENT
PWX-1	1981	GC-2	2 - RUSTON 2500 HP turbines
	1981	GC-2	1 - RUSTON 4900 HP turbine
reduced water PWX-2	1982	GC-3	2 - SULZER 7770 HP turbines
PWX-3	1983	GC-1	2 - SULZER 7770 HP turbines
	1983	GC-2	2 - SULZER 7770 HP turbines
low pressure gas LPS-1	1982	GC-2	OK 2 - GE 35000 HP turbines
LPS-2	1983	GC-1	OK 2 - GE 35000 HP turbines
	1983	GC-3	OK 2 - GE 35000 HP turbines
WSW-1	1983	SIPW	2 - COOPER-ROLLS 29,100 HP turb
	1983	SIPW	3 - RUSTON 2500 HP turbines
IGL	1982	GC-3	OK 1 - RUSTON 4900 HP turbine

5.0

USEPA REG
0000068

AK 2337-1 (7/81)

M.R. WAGNER
2-23-82

SOHIO

ENGINEERING DATA
SOHIO ALASKA PETROLEUM COMPANY

SHEET NO._____ OF_____

SUBJECT _____

BASED ON _____ BUDGET/AFE NO. _____

ENGINEER _____ DEPT. APP'VL _____ DATE _____ FILE NO. _____

SUMMARY OF EQUIPMENT ORDERED

SEALIFT	EQUIPMENT (TURBINES)	NO. OF UNITS TOTAL	SPARES	AVAIL. FOR TESTING
1981	RUSTON 2500 HP	2	1	1
	RUSTON 4900 HP	1	1	0
1982	RUSTON 4900 HP	1	0	1
	SULZER 7770 HP	2	1	1
	GE 35000 HP	2	1	1
1983	RUSTON 2500 HP	3	0	3
	SULZER 7770 HP	4	2	2
	COOPER-ROLLS 29100 HP	2	0	2
	GE 35000 HP	4	2	2
		21	8	13

2500 HP	4
4900	2
7770	3
35000	3
29,100	2

10,000
9,600
23,310
58 200
100,510

PROJECT: PRODUCED WATER INJECTION

FACILITY SUMMARY

FACILITY	PERMITTED SOURCES		PLANNED SOURCES					BALANCE
	PERMIT	DESCRIPTION	PROJECT	SEALIFT	DESCRIPTION	STATUS	STIPULATIONS	
GC-1	PSD II	8.4 MHP (S)						8.4 MHP
	PSD IV	15.0 MHP						23.4 MHP
			PWX-3	1983	1-7.8 MHP TDP	P	PSD II	15.6 MHP
			PWX-3	1983	1-7.8 MHP TDP	P	PSD II/IV	7.8 MHP
GC-2	PSD II	8.4 MHP (S)						8.4 MHP
	PSD II (R)	7.5 MHP						15.9 MHP
	PSD IV	22.5 MHP						38.4 MHP
			PWX-1	1981	2-2.5 MHP TDP	P	PSD II	33.4 MHP
			PWX-1	1981	1-4.9 MHP TDP	P	PSD II	28.5 MHP
			PWX-3	1983	2-7.8 MHP TDP	P	PSD II/IV	12.9 MHP
GC-3	PSD II	8.4 MHP (S)						8.4 MHP
	PSD II (R)	7.5 MHP						15.9 MHP
	PSD IV	7.5 MHP						23.4 MHP
			PWX-2	1982	2-7.8 MHP	P	PSD II	7.8 MHP
			PWX-4	1984	1-7.8 MHP	F	PSD II/IV	0.0 MHP

LEGEND: TDP: turbine driven pump
TDC: turbine driven compressor
TDG: turbine driven generator

PH: process heater
P: purchased equipment
F: future equipment

(S): RANGE (2.5 MHP - 8.0 MHP)

M.R. WAGNER
1-18-82

PROJECT : WATERFLOOD

FACILITY SUMMARY

FACILITY	PERMITTED SOURCES		PLANNED SOURCES					BALANCE
	PERMIT	DESCRIPTION	PROJECT	SEALIFT	DESCRIPTION	STATUS	STIPULATIONS	
IPW	Waterflood	80 MHP (L)						80 MHP (L)
	PSD IV	25 MHP (L)						105 MHP (L)
			WSW-1	1983	2-29.1 MHP TDP	P	Waterflood	46.8 MHP (L
	Waterflood (R)	16 MHP (S)						16.0 MHP (S)
			WSW-1	1983	3-2.5 MHP TDP	P	Waterflood	8.5 MHP (S)
	Waterflood	100 MM BTU/hr.						100 MM BTU/hr.
	Waterflood (R)	750 MM BTU/hr.						850 MM BTU/hr.
			WSW-1	1983	2-330 MM BTU/hr.			210 MM BTU/hr

LEGEND: TDP: turbine driven pump
TDC: turbine driven compressor
TDG: turbine driven generator

PH: process heater
P: purchased equipment
F: future equipment

M.R. WAGNER
1-18-82

PROJECT: LOW PRESSURE SEPARATION/ARTIFICIAL LIFT

FACILITY SUMMARY

FACILITY	PERMITTED SOURCES		PLANNED SOURCES					BALANCE
	PERMIT	DESCRIPTION	PROJECT	SEALIFT	DESCRIPTION	STATUS	STIPULATIONS	
GC-1	PSD II	90.4 MHP (L)						90.4 MHP (L)
	PSD IV	35.0 MHP (L)						125.4 MHP (L)
			LPS-2	1983	2-35 MHP TDC	P	PSD II	55.4 MHP (L)
			LPS-4	1985	1-35 MHP TDC	F	PSD II/IV	20.4 MHP (L)
			AL	1985	2-35 MHP TDC	F	PSD IV	-49.6 MHP (L)
	PSD II	400.5 MM BTU/hr.						400.5 MM BTU/hr
GC-2	PSD I	65.0 MHP						65 MHP (L)
	PSD II	170.2 MHP						235 MHP (L)
	PSD IV	45.0 MHP						280 MHP (L)
			LPS-1	1982	1-35 MHP TDC	P	PSD I	245 MHP (L)
			LPS-1	1982	1-35 MHP TDC	P	PSD I/II	210 MHP (L)
			LPS-3	1984	1-35 MHP TDC	F	PSD II	175 MHP (L)
	PSD II	443.0 MMBTU/hr.						443 MMBTU/hr
GC-3	PSD I (R)	10 MHP (S)						
			IGL-1	1982	1-4.9 MHP TDC	P	PSD I	5.1 MHP (S)
	PSD II	90.4 MHP						90.4 MHP (L)
	IV	60.0 MHP						150.4 MHP (L)
			LPS-2	1983	2-35 MHP TDC	P	PSD II	80.4 MHP (L)
			LPS-4	1985	1-35 MHP TDC	F	PSD II/IV	45.4 MHP (L)
	PSD II	400.5 MM BTU/hr.						400.5 MM BTU/hr

LEGEND: TDP: turbine driven pump
TDC: turbine driven compressor
TDG: turbine driven generator
PH: process heater
P: purchased equipment
F: future equipment

M.R. WAGNER
1-18-82

PROJECT: CPS EXPANSION

FACILITY SUMMARY

FACILITY	PERMITTED SOURCES		PLANNED SOURCES					BALANCE
	PERMIT	DESCRIPTION	PROJECT	SEALIFT	DESCRIPTION	STATUS	STIPULATIONS	
CPS	PSD I	50 MW						50 MW
			CPS	1984	1 - 25 MW TDG	F	PSD I	25 MW

LEGEND: TDP: turbine driven pump
TDC: turbine driven compressor
TDG: turbine driven generator
PH: process heater
P: purchased equipment
F: future equipment

M.R. WAGNER
1-18-82

PROJECT: WELL PAD EXPANSIONS

FACILITY SUMMARY

FACILITY	PERMITTED SOURCES		PLANNED SOURCES					BALANCE
	PERMIT	DESCRIPTION	PROJECT	SEALIFT	DESCRIPTION	STATUS	STIPULATIONS	
WELL PADS	PSD II	16-10 MM BTU/h						160 MM BTU/h

LEGEND: TDP: turbine driven pump
TDC: turbine driven compressor
TDG: turbine driven generator
PH: process heater
P: purchased equipment
F: future equipment

M.R. WAGNER
1-18-82