

**THE ORTLOFF CORPORATION**  
**SUMMARY OF**  
**ORTLOFF'S SULFUR RECOVERY PROJECTS**

<u>YEAR</u>	<u>CLIENT</u>	<u>PLANT LOCATION</u>	<u>CAPACITY</u>	<u>PROJECT DESCRIPTION<sup>1</sup></u>
1960	National Sulfur Co.	Fashing, TX	55 LTPD	E, D, P, and C of a sulfur recovery unit.
1962	National Sulfur Co.	Lehman, TX	9 LTPD	E, D, P, and C of a sulfur recovery unit.
1965	National Sulfur Co.	Loring, MS	12 LTPD	E, D, P, and C of a sulfur recovery unit.
1966	National Sulfur Co.	Sand Hills, TX	12 LTPD	E, D, P, and C of a sulfur recovery unit.
1966	National Sulfur Co.	Queen City, TX	30 LTPD	E, D, P, and C of a sour production processing facility, with MEA gas treating, and a sulfur recovery unit.
1967	Amarillo Oil Co.	Andector, TX	6 LTPD	E, D, P, and C of a sulfur recovery unit.
1967	National Fuels	Madill, OK	7 LTPD	E, D, P, and C of a sulfur recovery unit.
1967	Marathon Oil Co.	Iran, TX	17 LTPD	E, D, P, and C of a sulfur recovery unit.
1967	Cities Service Oil Co.	Roosevelt Cty, NM	32 LTPD	E, D, P, and C of a sulfur recovery unit.
1967	Marathon Oil Co.	Carlsbad, NM	32 LTPD	E, D, P, and C of a sulfur recovery unit.
1968	Cities Service Oil Co.	Myrtle Springs, TX	318 LTPD	E, D, P, and C of a sour production processing facility with Sulfinol gas treating, NGL recovery, and two sulfur recovery units.
1968	Northern Gas Products Co.	Lea Cty, NM	13 LTPD	E, D, P, and C of a sulfur recovery unit.
1969	Elcor Chemical Corp.	Culberson Cty, TX	1000 LTPD	E, D, P, and C of facilities to recover sulfur from gypsum including a sulfur recovery unit.
1970	Exxon Company, USA	Santa Rosa Cty, FL	15 LTPD	E, D, P, and C of a sour production processing facility, with MEA gas treating and a sulfur recovery unit.
1971	Louisiana Land & Exploration Co.	Escambia Cty, FL Unit #1	44 LTPD	E, D, P, and C of a sour production processing facility, with Sulfinol gas treating and a sulfur recovery unit.
1971	Louisiana Land & Exploration Co.	Escambia Cty, FL Unit #2	44 LTPD	E, D, P, and C of a sour production processing facility, with Sulfinol gas treating and a sulfur recovery unit.
1972	Louisiana Land & Exploration Co.	Escambia Cty, FL Unit #3	110 LTPD	E, D, P, and C of a sour production processing facility, with Sulfinol gas treating and a sulfur recovery unit.
1972	Amerada Hess MS-FL Corporation	Santa Rosa Cty, FL	80 LTPD	C of a sour production processing facility, with DEA gas treating and a sulfur recovery unit.
1972	Signal Oil & Gas Co.	Hopkins Cty, TX	30 LTPD	E, D, P, and C of a sulfur recovery unit.
1972	Texas Oil & Gas Co.	Pittsburg, TX	14 LTPD	Relocate, modify, and install a sulfur recovery unit.

<sup>1</sup>Legend

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1974	Cosden Oil & Chemical	Big Spring, TX	38 LTPD	E, D, P, and C of a sulfur recovery unit.
1974	Phillips Petroleum Co.	Chatom, AL	190 LTPD	E, D, P, and C of a sour production processing facility, with Sulfinol gas treating, NGL recovery, and a sulfur recovery unit.
1974	Exxon Company, USA	Santa Rosa Cty, FL	83 LTPD	E, D, P, and C of a sour production processing facility with Sulfinol gas treating and a sulfur recovery unit.
1974	Mallard Exploration, Inc.	Altmore, AL	440 LTPD	E, D, P, and C of a sour production processing facility, with Sulfinol gas treating, NGL recovery, and a sulfur recovery unit.
1975	Exxon Company, USA	Santa Rosa Cty, FL	83 LTPD	E, D, P, and C of a SCOT tailgas cleanup unit.
1976	Texas Oil & Gas Corp.	Pecos Cty, TX	25 LTPD	E, D, P, and C of a sulfur recovery unit.
1976	Mallard Exploration Inc.	Altmore, AL Unit #2	440 LTPD	E, D, P, and C of a sour production processing facility, with Sulfinol gas treating, and a sulfur recovery unit.
1976	Warren Petroleum Co.	Monument, NM	32 LTPD	E, D, P, and C of a sulfur recovery unit.
1976	Warren Petroleum Co.	Fashing, Atascosa Cty, TX	36 LTPD	E, D, P, and C of a sulfur recovery unit.
1977	Energy Cooperative Inc.	East Chicago, IN	75 LTPD	E and D of revisions to an existing refinery sulfur recovery unit to solve onstream reliability problems.
1978	Cities Service	Bluitt, NM	29 LTPD	E, D, P, and F of a 3rd stage addition to an existing sulfur recovery unit.
1978	Fina Oil & Chemical	Pt. Arthur, TX	85 LTPD	E of revisions, D, S, and P of revised replacement equipment items for a refinery sulfur recovery unit to solve onstream reliability problems.
1978	Mobil Oil	Joliet, IL	90 LTPD	D, S, P, and detailed retrofit of replacement waste heat boilers for two refinery sulfur recovery units to solve onstream reliability problems.
1979	Dorchester Refining	Mt. Pleasant, TX	20 LTPD	E of revisions, D, S, and P of revised replacement equipment items for a refinery sulfur recovery unit to solve onstream reliability problems.
1979	Union Oil Company	Chunchula Field, Mobile Cty, AL	23 LTPD	E, D, P, and C of a sour production processing facility, with Benefield Hi-Pure gas treating, NGL recovery, NGL fractionation, and a sulfur recovery unit.
1979	Pursue Gas Processing	Thomasville, MS	1280 LTPD	E, D, P, and C of a sour production processing facility, with Sulfinol gas treating, and two sulfur recovery units.

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1980	Marion Corporation	Theodore, AL	10 LTPD	E, D, P, and F of a modular sulfur recovery unit.
1980	Little American Refining Co.	Casper, WY	19 LTPD	E, D, P, and I of a modular refinery sulfur recovery unit.
1980	Exxon Company, USA	Santa Barbara, CA	10 LTPD	E, D, P, and C review of a ship-mounted (OS&T) sour production processing facility, with Sulfinol gas treating, and a sulfur recovery unit.
1980	Phillips Petroleum	Lea Cty, NM	26 LTPD	E, D, P, and I of a modular sulfur recovery unit.
1981	Louisiana Land & Exploration Co.	Saraland, AL	53 LTPD	E, D, P, and I of a modular refinery sour gas processing system with Sulfinol gas treating, a sulfur recovery unit, and a SCOT tailgas cleanup unit.
1981	Fluor/Powerine Oil Co.	Santa Fe Springs, CA	23 LTPD	E, D, P, and F of two modular refinery sulfur recovery units.
1981	Republic Refining Co.	Rankin Cty, MS	440 LTPD	E, D, P, and C of a sour production processing facility with Sulfinol gas treating, a sulfur recovery unit, and a SCOT tailgas cleanup unit.
1981	Phillips Petroleum Co.	McKamie, AR	27 LTPD	E, D, P, F, and I of a modular sulfur recovery unit.
1982	Getty Oil Company	Freestone Cty, TX	181 LTPD	E, D, P, and C of a sour production processing facility with Sulfinol gas treating, a sulfur recovery unit, and a SCOT tailgas cleanup unit.
1982	Lummus/Clark Oil Co. (Apex Oil Co.)	Mt. Airy, LA	15 LTPD	E, D, P, and F of a modular refinery sulfur recovery unit.
1982	Enserch Engineers & Constructors (Lone Star Gas Co.)	Ward Cty, TX	20 LTPD	E, D, P, and F of a modular sulfur recovery unit.
1982	Gary Refining Co.	Grand Junction, CO	12 LTPD	E, D, P, F, and I of a sour water stripping unit and a modular refinery sulfur recovery unit.
1982	Fina Oil & Chemical	Pt. Arthur, TX	109 LTPD (SRU) 200 LTPD (SCOT)	E, D, P, and C management of a refinery sulfur recovery unit and a SCOT tailgas cleanup unit.
1982	Mitchell Energy Corp. (Liquid Energy Corp.)	Borger, TX	14 LTPD	E, D, P, and F of a modular sulfur recovery unit.
1982	Amerada Hess Corp.	Seminole, TX	80 LTPD	E, D, P, and C of an EOR CO <sub>2</sub> recovery and recycle facility, with Ryan/Holmes CO <sub>2</sub> and NGL recovery systems, DEA product treating, and two CBA process sulfur recovery units.
1983	Hawaiian Independent Refinery, Inc.	Honolulu, HA	14 LTPD	E, D, P, F, and I of a modular refinery sulfur recovery unit.

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1983	Koch Refining Company	Corpus Christi, TX	50 LTPD	E, D, P, F, and I of a sour water stripping unit, a modular refinery sulfur recovery unit, and a SCOT tailgas cleanup unit.
1984	Mobil Oil Company	Mobile, AL	227 LTPD	E, D, and S of a sulfur recovery unit and SCOT tailgas cleanup unit.
1984	TOSCO Corporation	Martinez, CA	168 LTPD (SRU)	E, D, P, and C of a SCOT tailgas cleanup unit.
1984	Conoco, Inc.	Denver, CO	26 LTPD	D, S, and detailed retrofit of a replacement waste heat boiler for a refinery sulfur recovery unit to solve onstream reliability problems.
1985	Marathon Oil Co.	Carlsbad, NM	50 LTPD	E and S of design improvements to an existing sulfur recovery unit to solve onstream reliability problems.

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