DATE APR 22 1982

TO: OMS-2-2

FROM: OS-7-1

Supplemental Plan of [redacted] Development/Production, Lease, OCS-G 0244 & 0245
WC 71 & 72
Superior Oil Co.

Control No. S-0849.

NOIED - PATZ

SUPERIOR OIL COMPANY
SUPPLEMENTAL PLAN OF DEVELOPMENT & PRODUCTION
WEST CAMERON BLOCK 71, OCS-0244
WEST CAMERON BLOCK 72, OCS-0245

SUBMITTED BY:
OFFSHORE DIVISION
APRIL 16, 1982

NOTED - PATZ

SUPERIOR OIL COMPANY
SUPPLEMENTAL PLAN OF DEVELOPMENT & PRODUCTION
WEST CAMERON BLOCK 71, OCS-0244
WEST CAMERON BLOCK 72, OCS-0245

SUPERIOR OIL COMPANY
SUPPLEMENTAL PLAN OF
DEVELOPMENT & PRODUCTION
WEST CAMERON BLOCK 71, OCS-0244
WEST CAMERON BLOCK 72, OCS-0245

Superior Oil as an operator of West Cameron Blocks 71 and 72, hereby submits this supplemental plan of Development and Production pursuant to requirements of 30 CFR 250.34. This supplemental plan will address the drilling of one (1) well in West Cameron Block 71 and one (1) well in West Cameron Block 72.

Drilling operations should commence on or about June 10, 1982, with the No. 24 well in West Cameron Block 71. Upon completion of drilling operations on the No. 24 well, the drilling rig will move to the No. 10 well in West Cameron Block 72 and commence drilling the No. 10 well on or about July 20, 1982. Drilling operations should be completed in September, 1982. The No. 10 well will be drilled from the existing No. 1 Structure with no simultaneous operations planned at this time during drilling operations. Existing facilities on the platform will be used for the No. 10 well with production to begin in October, 1982. The No. 24 well will require a two slot, four pile platform and one heater treater for oil production. A proposed 6" flowline will leave the No. 24 well platform and will tie into the existing No. 4 Structure in West Cameron Block 72. Production should begin by July, 1983, for the No. 24 well.

Superior Oil proposes to drill with a jack-up type mobile drilling unit. A comprehensive description and major equipment list is included. Important features of the drilling unit include life rafts and life jackets for all personnel, fire extinguishers, and all necessary drilling equipment to safely control any well condition. The drilling unit will be equipped with typical pollution control equipment including, but not limited to, deck drains, pumps, drip pans and sewage treatment facilities.

Superior Oil's shallow hazards review for well No.24 in West Cameron Block 71 reflects a low probability of gas in 39 feet of water. Superior Oil's shallow hazards review for well No. 10 reflects a low probability of gas in 37.5 feet of water.

Listed below is a complete description of the depth, surface and bottom hole location of each well based on measurements from the boundary lines of West Cameron Block 71:

WELL NO.	DEPTH	SURFACE LOCATION	BOTTOM HOLE LOCATION
24	12,100'MD	1600' FSL	1600' FSL
		3500' FWL	3500' FWL

Listed below is a complete description of the depth, surface and bottom hole location of each well based on measurements from the boundary lines of West Cameron Block 72:

WELL NO.	DEPTH	SURFACE LOCATION	BOTTOM HOLE LOCATION
10	11,300'MD	5650' FNL	5500' FNL
	11,000'TVD	2650' FEL	4350' FEL

SUPPORT FACILITY

The Superior Oil Company maintains a 125,000 sq. ft. facility located between Louisiana Highway 27 and The Calcasieu River in the town of Cameron, Louisiana approximately one mile North of the Gulf of Mexico.

T' ; facility is designed to provide shore base operations, support to p. oduction, drilling and marine equipment operating in The Western Sector of the Gulf of Mc .

GENERAL FACILITY CHARA` S;ICS:

a. American 10-T :iff Leg Crane for loading and unloading operations.

b. A 1,000 bbl. diesel storage tank with two (2) United States Coast Guard approved dock side discharge facility.

c. A 210 bbl. bulk Glycol storage tank with one (1) United States Coast Guard approved dockside discharge facility.

d. A city water supply with 4" water line facility on dock side. Flows into two 1,000 bbl. storage tanks before discharging into vessels with 6" pump.

e. Diesel storage tank area is enclosed with an earthen fire and containment wall, six feet wide at base, four feet high, with three feet, six inch crown.

f. Approximately 400 feet of wooden creosote wharf and walkway along Channel side of lease, complete with steel dolphin piling, two (2) crewboat slips, electrical shore-power sites, and lighting.

g. A 120 foot radio antenna tower, self supporting.

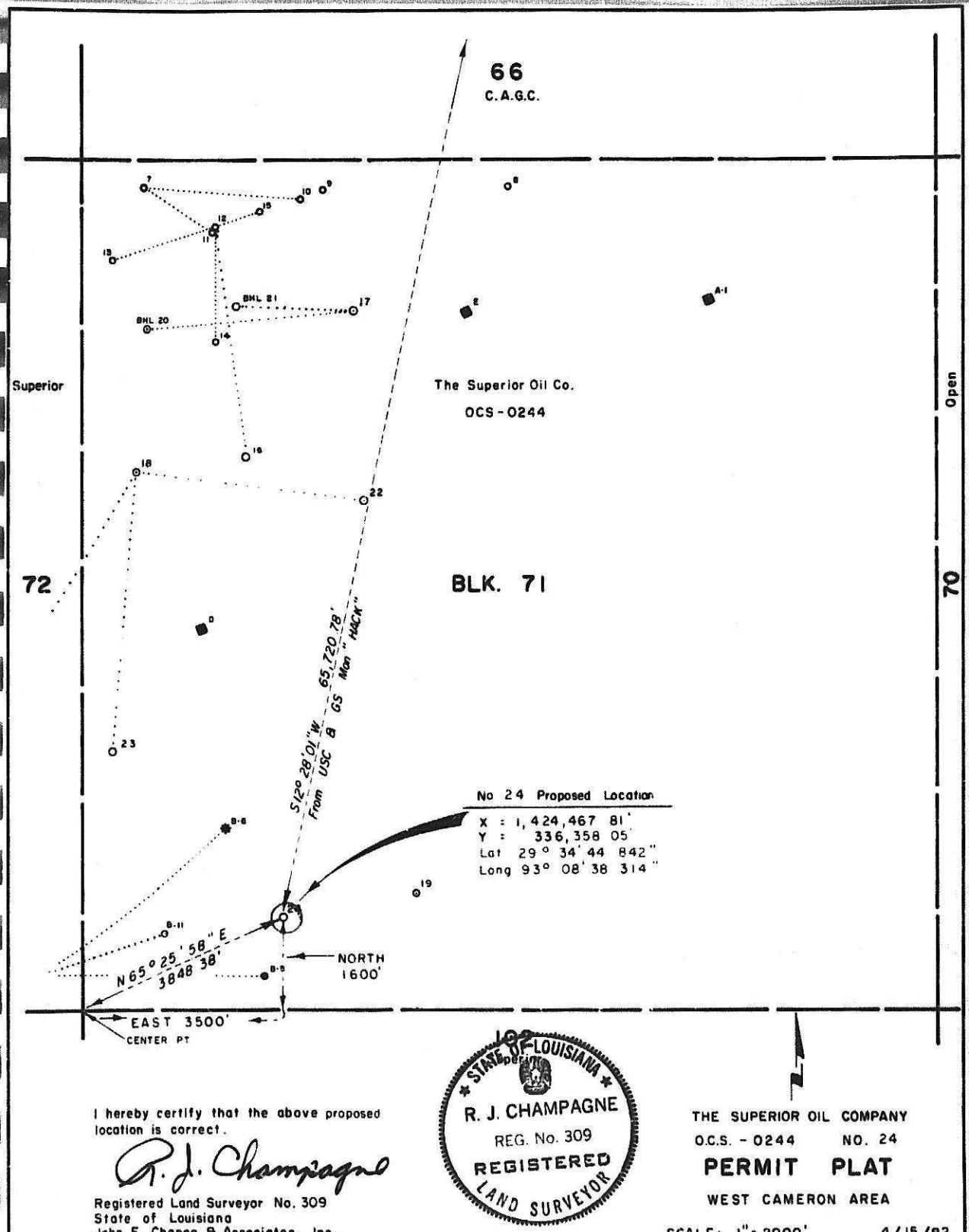
h. A 60' x 40' Office Building staffed by dispatchers, dock men and production personnel.

i. A 40' x 24' wooden frame building used as a warehouse completely furnished with toilet and kitchen facilities. Air conditioned. (Reconditioned July, 1976).

j. Entire facility is completely surrounded with a 7' high hurricane fence.

k. Yard surfaced area is completely shelled.

l. Parking area for automobiles.



I hereby certify that the above proposed location is correct.

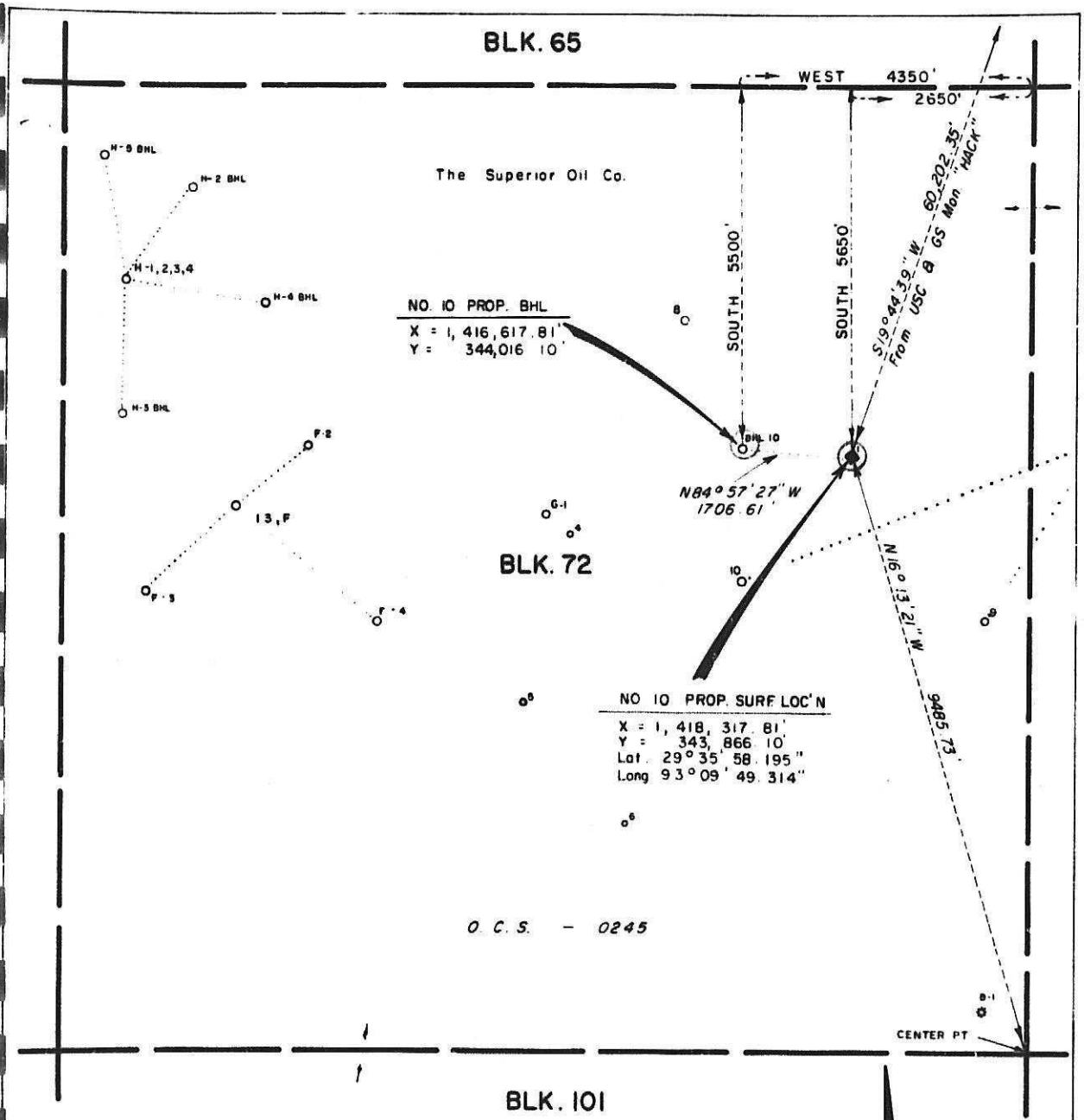
R. J. Champagne

Registered Land Surveyor No. 309
State of Louisiana
John E. Chance & Associates, Inc.

STATE OF LOUISIANA
R. J. CHAMPAGNE
REG. No. 309
REGISTERED
LAND SURVEYOR

THE SUPERIOR OIL COMPANY
O.C.S. - 0244 NO. 24
PERMIT PLAT
WEST CAMERON AREA

SCALE: 1" = 2000' 4/15/82



I hereby certify that the above proposed surface location is correct.

R. J. Champagne

Registered Land Surveyor No 309
State of Louisiana.
John E Chance & Associates, Inc

STATE OF LOUISIANA
R. J. CHAMPAGNE
REGISTERED
LAND SURVEYOR

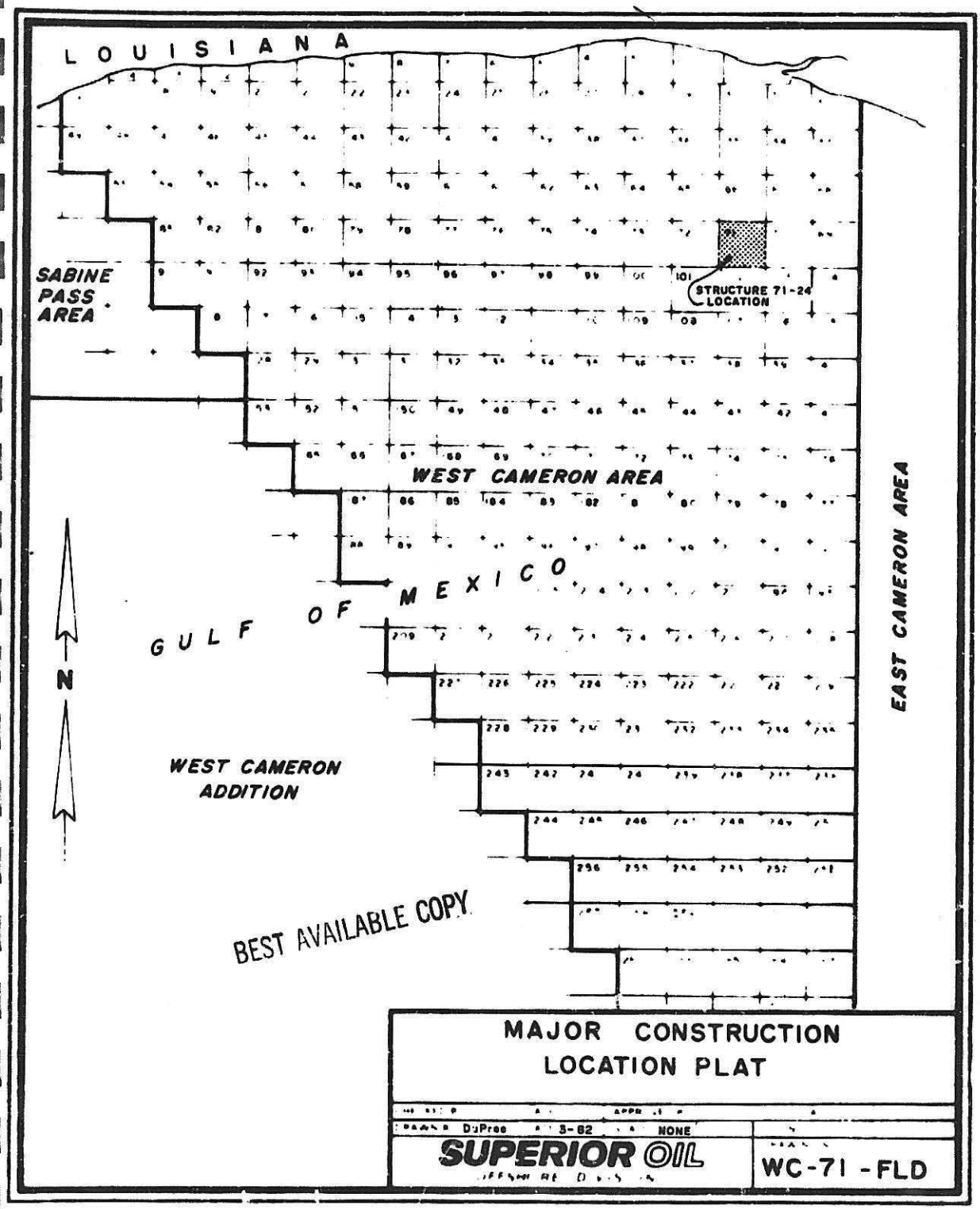
THE SUPERIOR OIL COMPANY

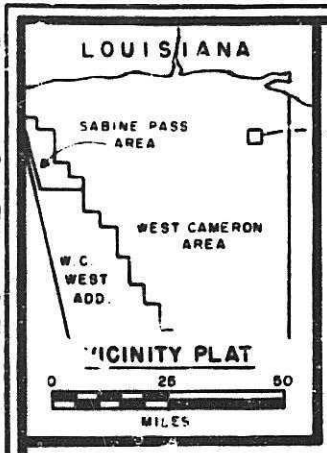
O.C.S. 0245 NO 10

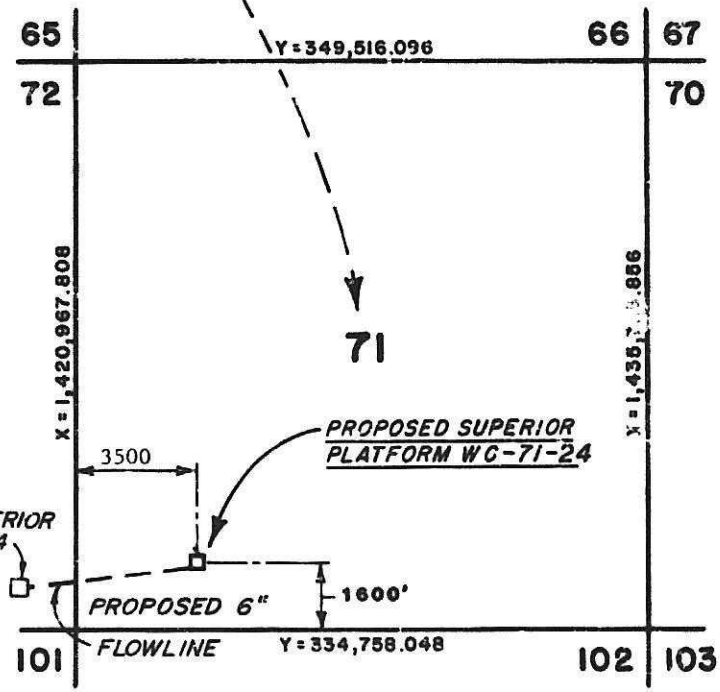
PERMIT PLAT

WEST CAMERON AREA

SCALE 1"=2000' 4/05/82


LOUISIANA
SABINE PASS AREA
STRUCTURE 71-24 LOCATION
WEST CAMERON AREA
EAST CAMERON AREA
GULF OF MEXICO
N
WEST CAMERON ADDITION
BEST AVAILABLE COPY
MAJOR CONSTRUCTION LOCATION PLAT
DuPree
3-62
NONE
SUPERIOR OIL
WC-71 - FLD





N

PIPELINE NOTE
3' MIN. BURIAL DEPTH
6' MIN. WITHIN 600' FROM PLATFORM

COORDINATES ARE BASED ON LOUISIANA (LAMBERT) PLANE COORDINATE SYSTEM, SOUTH ZONE

LOCATION PLAT

0 4000 8000
FEET

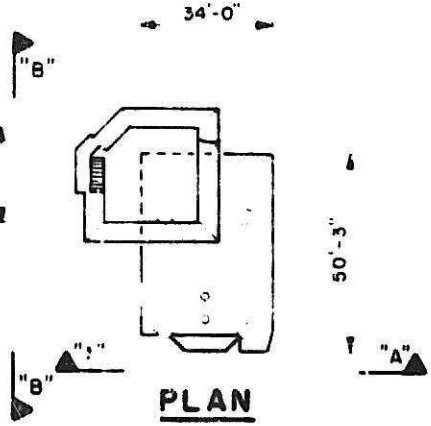
PROPOSED FLOWLINES AND STRUCTURES LOCATION PLAT

PROPOSED MINERAL DEVELOPMENT
IN THE GULF OF MEXICO
WEST CAMERON AREA

DRAWN: WMD 3/82 NOTED

SUPERIOR OIL
OFFSHORE DIVISION

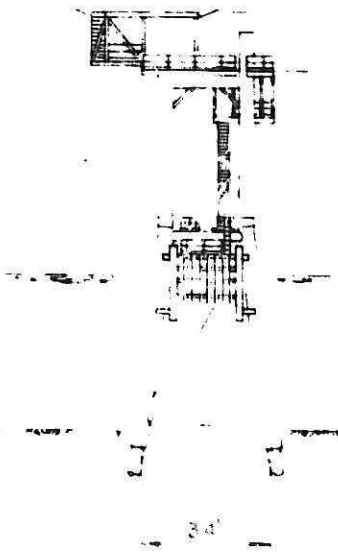
WC-71-24-LP



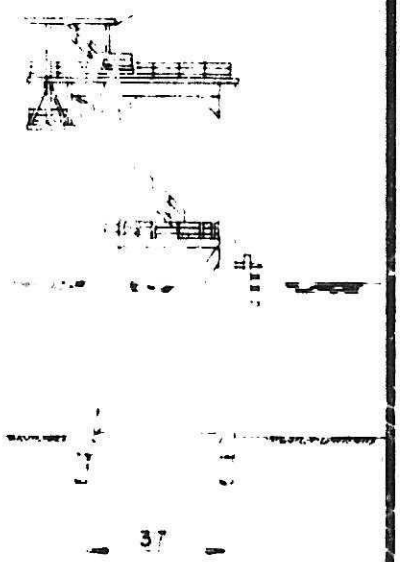
PLAN

PLAT NORTH
TRUE NORTH
N

OCS-0244
WEST CAMERON BLOCK 71
PLATFORM-24
STRUCTURAL FACILITY



ELEVATION "A"



ELEVATION "B"

WELL PROTECTOR & PROD PLATFORM
WEST CAMERON BLOCK 71-24

DRAWN	WMD	DATE	5/82	SCALE	NONE

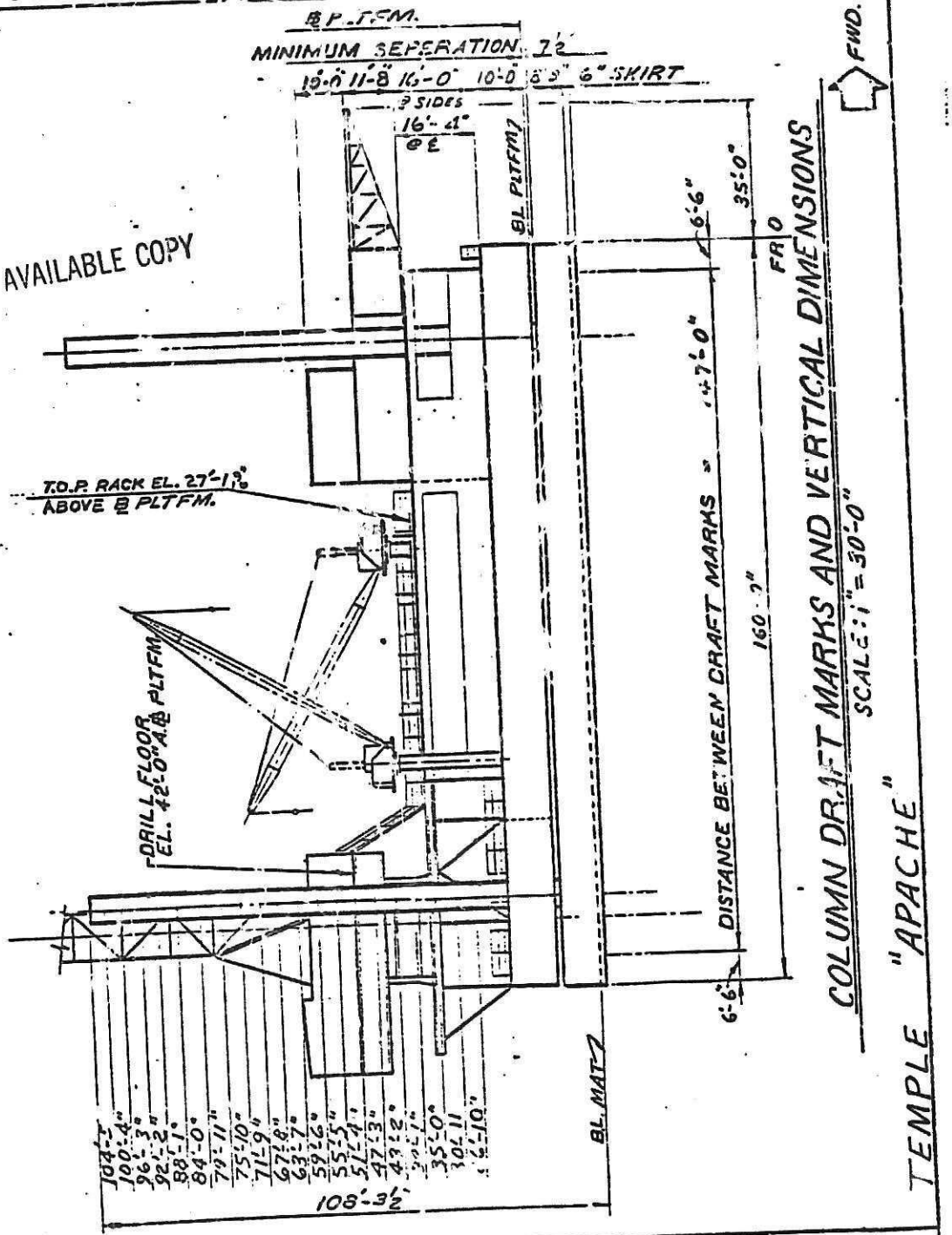
SUPERIOR OIL
OFFSHORE DIVISION

WC-71-24-S-PM1

Item

Sheet No. 3-44

JACK-UP DRILL BARGE HULL 4915



COLUMN DRAFT MARKS AND VERTICAL DIMENSIONS

SCALE: 1" = 30'-0"

TEMPLE "APACHE"

BETHLEHEM STEEL CORPORATION
BEAUMONT YARD BEAUMONT, TEXAS

By RCM

Date

DRILLING CONTRACT - OFFSHORE DRILLING UNIT

"APACHE"

SCHEDULE "C"

EQUIPMENT, MATERIALS, SERVICES AND SUPPLIES

ORY DESIGNATION:

CONTRACTOR ITEMS:

1. Furnished by Contractor, paid by Contractor.
2. Furnished by Contractor paid by Company, plus handling charges.

COMPANY ITEMS:

1. Furnished by Company, paid by Company.

ILLING UNIT DESIGN CRITERIA

1 Operating Range 10' to 45' max. hurricane U.S. Gulf to operate in 45' MLW in Hurricane Conditions 85'11" B/B

Nominal Dimensions:

Platform: 1 0'x80'x10

Slot: 36'x25' (AFT 19' Slot 42' wide)

Mat: 160 x82'x8'9"

Slot: 38'6"x25' (AFT 19' Slot 42' wide)

2 Minimum tow horsepower required for Contractors Drilling Unit 5000 BHP Tug

CATEGORY

ILLING UNIT (Continued)

3 Storage Capacities:

100.31	Sack Mud and Chemicals, cubic feet	1500 sx
100.32	Bulk Storage, cubic feet	5000
100.33	Active Mud, Bbls.	1500
100.34	serve Mud, Bbls.	-
100.35	Potable Water, Bbls.	950
100.36	Drilling Water, Bbls.	4450
100.37	Fuel, Barrels	1450
100.38	Lubricating Oil, Gallons	200
100.39	Tubular Goods-Casing racks, tons	500
100.310	General Cargo, tons	1500

Heliport to Meet Operating Area Specifications for Bell 212 or equivalent helicopters.

Living Quarters - Accomodations for 48 personnel, with separate two-man office/accomodations for Company Drilling Supervisor, and Company Geologist.

Main and Auxiliary Power Plants - 4 GMC 16V149T each w/1000KW G.E. Generators. Engines rated at 1515 Hp.

Water Distillation Units - None

Air Compressors and Receivers - 2 NL Controls #G75A2 Rotary Screw Compressors each powered by 75 hp AC motors

Vessel Pumps - 2 OPECO Rawwater pump driven by 75 hp motor.

0 Instrumentation - M/D Type E Wt. Indicator, Pit level indicator, M-D 7 pen recorder.

1 Communications Systems - Sound powered phone system throughout rig, marine radiotelephone & SSB radio.

2 Welding Machines - 2-400 Amp Lincoln

3 Safety, Life Saving and Portable Fire Fighting Equipment Life rings, Life Jackets and Portable Fire Extinguishers.

Materials Handling Equipment

ILLING MACHINERY

1 Mast (Derrick) and Accessories - Brenham "Universal" 142' Mast, 1,323,000# GVW

2 Crown Block - Universal 600 Ton w/7-60" OD Sheaves

3 Travelling Block - Oilwell 650T, 6-60", 1¼" w.l.

4 Drawworks - Oilwell E-3000 driven by 2-GE 752 Traction motors complete w/Lebus groove drum fn 1¼" line, Sandreel w/9/16" line, and Cat heads

5 Mud Pumps - 2 Oilwell A1700 PT Triplexpumps, each powered by 2 GE 752 DC traction motors and each charged by a 6x8 centrifugal pump driven by 75 HP AC motor
We ARE NOW USING C/R LINERS IN BOTH PUMPS.

6 Rotary Table - Oilwell A 37½ Rotary & Drive Unit power by one GE 752 DC electric motor

7 Cementing Unit - None (~~Halliburton~~) B.J

8 Mud Circulating System - 2-6x8 mission mixing pumps powered by 75 HP AC motors

9 Mud & Cement Storage & Transfer System - Mud-3-820 cu. ft. vertical "P" tanks. Cement: 3-820 cu. ft. vertical "P" tanks, and a 70 cu. ft. surge tank.

10 B.O.P. Control Unit - NL Controls "Koomey" - 6 station 230 gal. accumulator unit w/1 remote unit

11 Inside B.O.P.'s - Gray to fit contractor's D.P.

12 Kelly Cocks - 1 upper and 2 lower - Omsco to fit Contractor's D.P.

13 Choke Manifold (Furnish Drawing) - 3 1/16 bore valves x 10,000 PSI W.P.

14 B.O.P. Stacks (Furnish Drawings) - 13 5/8" double and single each 10,000 psi w.p. - 1-13 5/8" Annular Preventer 5000 psi w.p. - 1-21¼ 2000 psi w.p. Bag Preventer

15 Well Testing Equipment - None

ING AND RELATED EQUIPMENT

Kellys - one - 5¼" Range 2 Hex

Drill Pipe and Subs - 15,000' 5" Grade G&E Range 2 w/4½ IF

Drill Collars - 10-8" spiral-grooved zip lift w/6 5/8 reg conn. 15-6½" spiral-grooved zip lift w/4½ IF Conn.

Bumper S. s (Drilling) - none

Reamer (Near Bit) Stabilizers - none

Stabilizers - none

Breaker Plates for Stabilizers and Bits - none

Bumper Subs (Fishing) - none

0 Overshots and all other Fishing Tools for Contractor's

Drill String and Bottom Hole Assembly - Furnished

1 Hole Opener/Underreamer - None

2 Miscellaneous Drilling Tools

LLING INSTRUMENTS

Totco 0-8° drift indicator

ILLARY EQUIPMENT, SUPPLIES, AND SERVICES:

Well Equipment and Tubulars: 3

501.1 Casing, tubing and hangers

501.2 Casing, cementing equipment and accessories

501.3 Tubing accessories and packers

501.4 Wellheads

Special Equipment

502.1 Wire ropes, slings, baskets, lines, etc. for loading and unloading workboats at drilling unit 1

502.2 All normally used hand tools 1

502.3 Drill string and handling tools other than listed hereinabove as Contractor's equipment 3

502.4 Fog horns and navigation lights 3

502.5 Sample sacks and core boxes 3

502.6 Two platform mounted 24-man survival systems If required by Coast Guard Regulations, appropriate change in Day Rate to be agreed upon by parties. 1

Supplies:

503.1 Bits and Coreheads 3

503.2 Pot .le water in excess of Di illation capacity and drilling water 3

503.3 Diesel Fuel 3

503.4 Normal greases, lubricants, solvents, paints and thread compounds 1

503.5 Special greases, lubricants, solvents, paints and thread compounds including casing dope 3

503.6 Cements and additives 3

503.7 Muds, chemicals and additives 3

503.8 Electric and oxyacetylene welding operating materials and supplies 1

503.9 Catering supplies 1

503.10 Rig maintenance, spares, services and supplies for Contractor's items 1

503.11 Supplies and parts for maintaining Company's items 3

503.12 Drill Pipe Casing Protectors to protect casing while working inside 13 3/8" casing 1

503.13 Drill Pipe Casing Protectors - replacement to above 2

rvices

504.1 Survey and Permits 3

504.11 Drilling Permits

504.12 Survey and Mark Drill Site

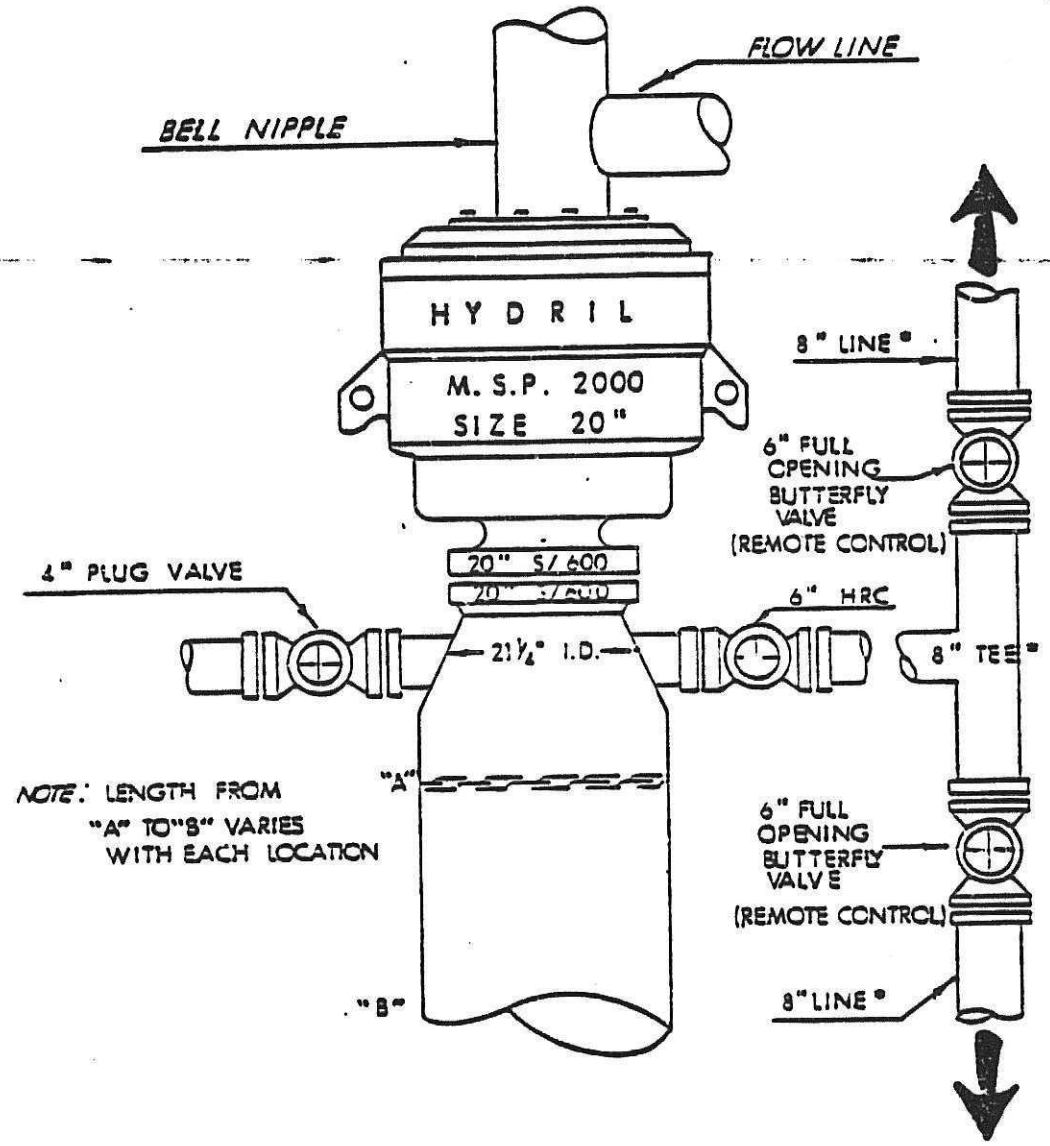
504.13 Soil Surveys and Bottom Surveys as required.

504.2 Communications and Transportation

504.21 Communication services and equipment other than as listed hereinabove as Contractor's Equipment 3

504.22 Barges, tugs and derrick barges required to transport the Drilling Unit to Company's location and transport to shore by tugs furnished

		CATEGORY
504	Services (Continued)	
504.23	Supply vessels between Operating Base and Drilling Unit for Contractor's and Company's Items	3
504.24	Standby Boat Services as required	3
504.25	Other marine, Land and Air Transport of all personnel, equipment, materials and services between Drilling Unit and Operating Base or other port designated by Company	3
504.26	Transfer at Operating Base to and from vessels or aircraft of all personnel, material, equipment and services	3
504.27	Transfer at Drilling Unit to and from vessles and aircraft of all personnel, material, equipment and services.	1
504.3	Personnel Services	
504.31	Accomodations of Contractor Personnel onshore (except as provided during periods of evacuation)	1
504.32	All medical services for Contractor Personnel onshore	1
504.33	First Aid Medical Attention for all personnel on Drilling Unit	1
504.34	Work permits, minor releases, etc. for Contractor Personnel	1



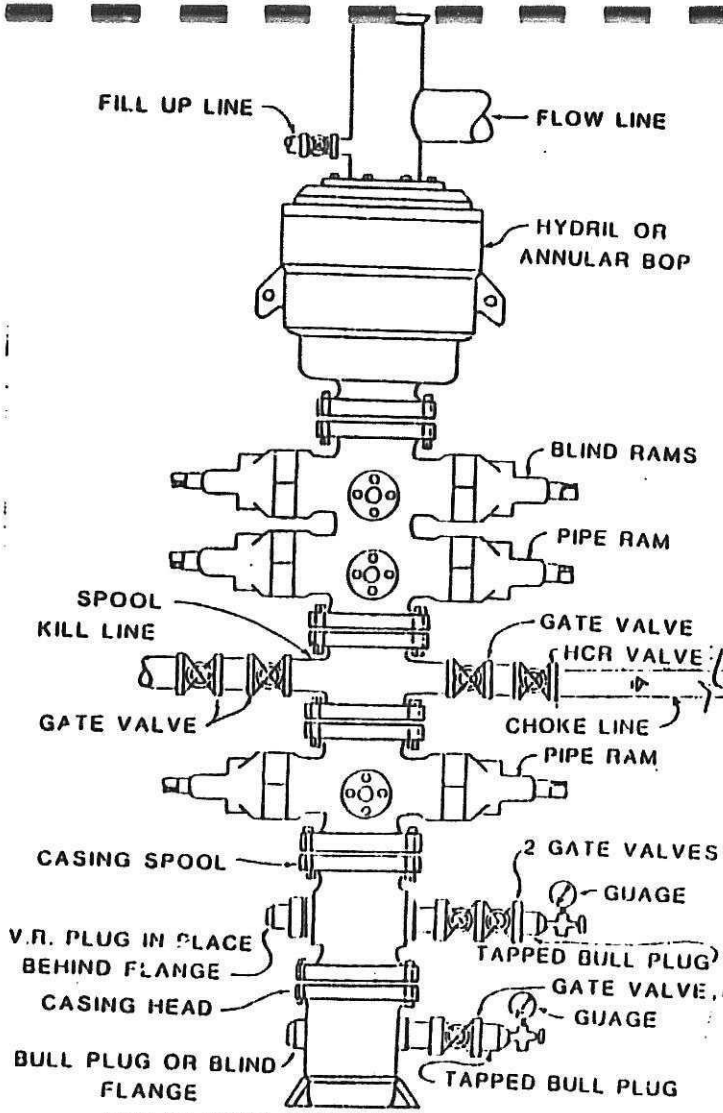
NOTE: HYDRAULIC PRESSURE WHICH CLOSE 20" HYDRIL OPENS 6" HRC DIVERTER VALVE.

* 6" LINES ARE ACCEPTABLE ON EQUIPMENT NOW IN USE UNTIL REPLACEMENT / MODIFICATIONS ARE MADE.

THE SUPERIOR OIL COMPANY

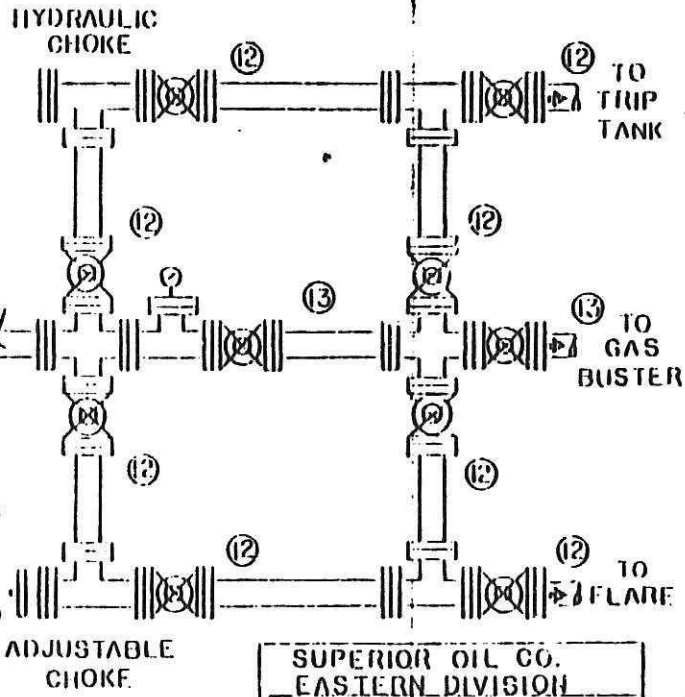
BLOWOUT PREVENTION & WELL CONTROL EQUIPMENT TO DRILL OUT OF 30" DRIVE PIPE

GULF OF MEXICO



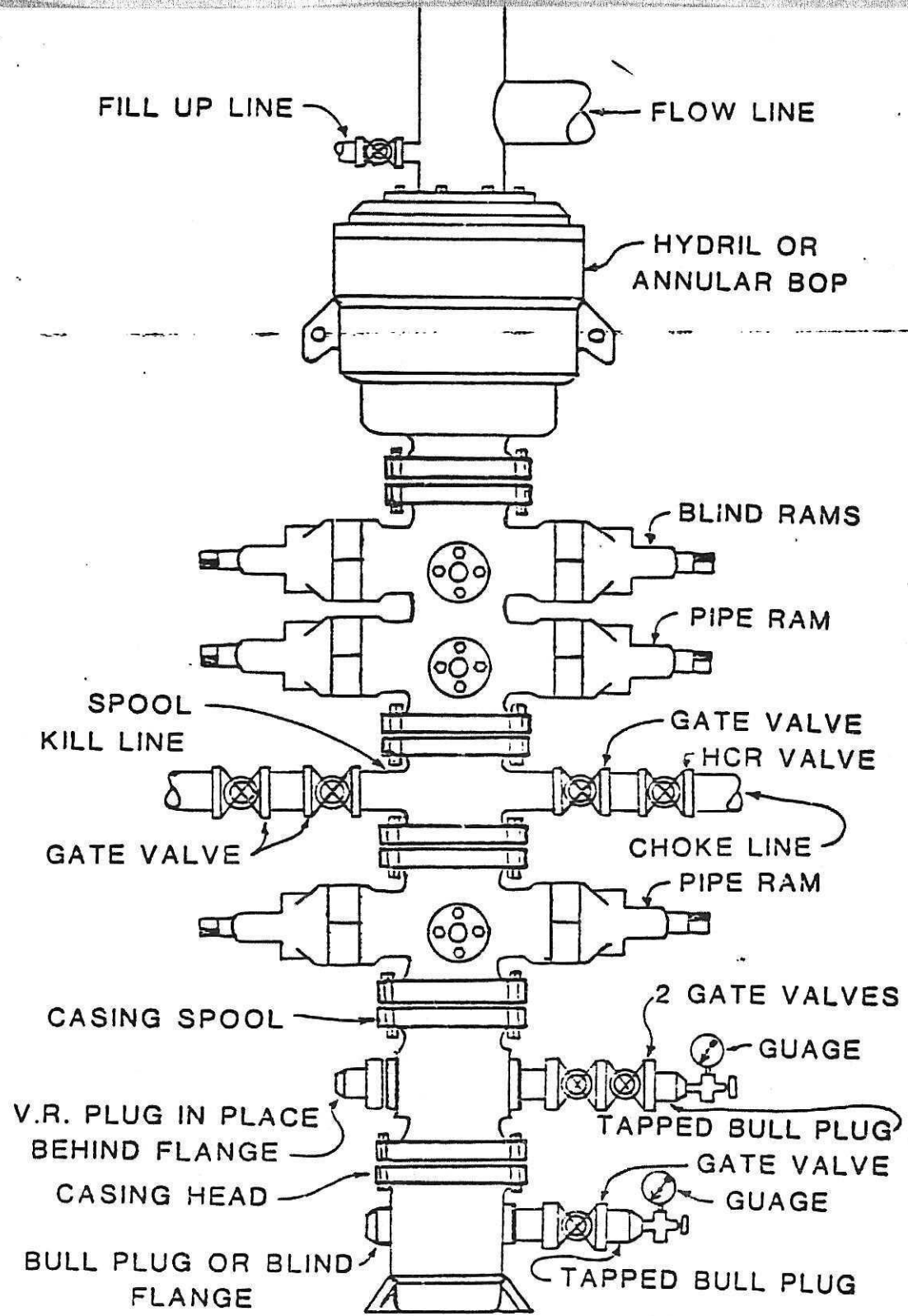
FOUR BOP STACK (SINGLE DRILL STRING)

⑫ 2" MIN. PLUG VALVE
⑬ 4 MIN. PLUG VALVE



SUPERIOR OIL CO.
EASTERN DIVISION

TYPICAL
CHOKE MANIFOLD



FOUR BOP STACK (SINGLE DRILL STRING)

BASIC MUD COMPONENTS AND ADDITIVES

BASIC MUD COMPONENTS

The following components form the basic mud system:

- Seawater
- Bentonite
- Barite
- Lignite
- Freshwater
- Lignosulfonate
- Caustic Soda
- Lime

COMMON CONDITIONERS

The following additives are routinely used to alter properties of the above basic system:

- Sodium Bicarbonate
- Soda Ash
- Gypsum
- SAPP
- Polymer Beads
- Walnut Hulls
- Mica

SPECIAL PURPOSE ADDITIVES

The following additives are used occasionally and only as necessary to correct or prevent mud or hole problems:

- Defoamer (such as Surflo W300)
- Surfactants (such as Surflube)
- Oil Spots (such as Imco Spot)
- Bacteriacides (such as Magna 434)
- Polymers (such as Imco Poly RX)
- Shale Stabilizers (such as Soltex)

Occasionally the water base system will be replaced by an oil base system when torque, drag or pipe sticking becomes a problem. When using oil base systems, the rig will be equipped with pollution containment equipment and cutting washers. After oil base mud operations are concluded, surplus materials will be transferred to storage or disposal sites onshore.

THE SUPERIOR OIL COMPANY

United States Department of the Interior

GEOLOGICAL SURVEY

IMPERIAL OFFICE BLDG 3301 N CAUSEWAY BLVD

P O BOX 7944

METAIRIE, LOUISIANA 70010

TEL (504) 837-4720

In Reply Refer To: OS-7-1

NOV 03 1981

The Superior Oil Company
Attention: Mr. J. S. Buchanan
Post Office Box 51108, OCS
Lafayette, Louisiana 70505

Gentlemen:

By your letter of October 27, 1981, three copies of revisions to your "Oil Spill Contingency Plan" were filed with this office.

The revisions are hereby approved and will be incorporated into our copies of your plan.

In the next updating of your plan, submit certificates or records of training for your oil spill response coordinators and their alternates.

Please furnish this office with two copies of further revisions or modifications of your contingency plan.

Sincerely yours,

D. W. Solanas

D. W. Solanas
Deputy Conservation Manager
Offshore Operations Support
Gulf of Mexico OCS Region

RECEIVED
NOV 05 1981
OFFSHORE
OPERATIONS

SUPERIOR OIL COMPANY
OIL SPILL CONTINGENCY PLAN
WESTERN GULF OF MEXICO
OFFSHORE LOUISIANA & WEST CAMERON AREA

Superior Oil Company is a member of Clean Gulf Associates and has access to all equipment available from or through that organization.

In addition, Superior Oil Company maintains oil containment booms, sorbent pads and blankets at the following locations:

Four Isle Dome Field, Louisiana
Dulac, Louisiana
Cameron, Louisiana
Lac Blanc Field, Louisiana
Deep Lake Field, Louisiana

In the event of an emergency oil spill or slick occasioned by our production operations in the Gulf of Mexico, the employee who discovers same will report immediately to the Cameron Office. If unable to contact Cameron, the employee will contact the company dispatcher at Lake Arthur, Louisiana. The employee's report will comply with the U.S. Geological Survey revised O.C.S. Order Number 7, Paragraph 2.3 and 2.3.1, effective January 1, 1980, which states:

2.3 Pollution Reports. All spills of oil and liquid pollution shall be reported orally to the District Supervisor and shall be confirmed in writing. All reports shall include the cause, location, volume of spill, and action taken. Reports of spills of more than 5.0 cubic meters (31.5 barrels) shall include information on the sea state, meteorological conditions, size and appearance of slick. All spills of oil and liquid pollutants shall also be reported in accordance with the procedure contained in 33 CFR 153.203.

2.3 1 Spills. Spills shall be reported orally within the following time limits:

a. Within 12 hours, if spills are 1.0 cubic meters (6.3 barrels) or less.

b. Without delay, if spills are more than 1.0 cubic meters (6.3 barrels).

This information will be relayed to the following persons:

SUPERIOR OIL COMPANY PERSONNEL		OFFICE #	HOME #
C. E. Provost	- Prod. Supervisor	- (318) 775-5147	(318) 478-8362
J. E. Miller	- Prod. Foreman	- (318) 775-5147	(318) 774-3527
C. L. McGuffee	- Prod. Foreman	- (318) 775-5147	(318) 649-5177
J. W. Broussard	- Prod. Foreman	- (318) 775-5147	(318) 583-2825
J. S. Buchanan	- Prod. Superintendent	- (318) 269-8203	(318) 981-1792
S. Truax	- Offshore Oper. Manager	- (318) 269-8265	(318) 984-9332

U.S. DEPARTMENT OF THE INTERIOR - Appropriate District to be notified

Area Office for Field Operations P.O. Box 7944 Metairie, LA 70010	(504) 837-4720
Jake Lowenhaupt, Oil and Gas Supervisor	(504) 888-2836

Texas District Office P.O. Box 2006 Freeport, TX 77541	(713) 233-2604
J. C. Sandridge, Dist. Supervisor	(713) 265-1708
E. L. Smith, Drilling Engineer	(713) 849-4142
D. Davis, Staff Engineer	(713) 233-0028
C. B. Kirkpatrick, Prod. Engineer	(713) 849-9554

Lake Charles District Office 3727 Ryan Street Lake Charles, LA 70605	(318) 478-6440
R. H. Darrow, District Supervisor	(318) 477-0671
B. R. Stewart, Drilling Engineer	(318) 625-8057
M. Hebert, Staff Engineer	(318) 625-8575
J. Larsen, Production Engineer	(318) 478-3419

Lafayette District Office 129 E. Cypress Street Lafayette, LA 70501	(318) 232-5037
E. G. Hubble, District Supervisor	(318) 981-4965
R. W. Meurer, Prod. Engineer	(318) 981-1264
C. E. DeLouche, Staff Engineer	(318) 984-1365
F. F. Hrachovy, Drilling Engineer	(318) 585-2506

Houma District Office P.O. Box 1269 Houma, LA 70360	(504) 868-4033
J. D. Borne, District Supervisor	(504) 876-9142
C. L. Ratcliff, Geologist	(504) 876-1036
Larry Templet, Drilling Engineer	(504) 872-6962
E. K. Domingos, Prod. Engineer	(504) 868-0493

OTHER U.S. AGENCIES TO BE NOTIFIED:

U.S. Coast Guard

Sabine Pass	(713) 971-2261	
Morgan City	(504) 385-2936	(504) 589-6225
New Orleans	(504) 589-7171	

Environmental Protection Agency 1114 Commerce Street Dallas, TX	Information	(214) 749-2161
Richard Hill Wally Cooper David Curtis	(214) 749-3971	

SUPERIOR OIL COMPANY
OIL SPILL CONTINGENCY PLAN
WESTERN GULF OF MEXICO
OFFSHORE LOUISIANA-EAST & WEST CAMERON AREA

In the event the oil spill threatens to reach state waters, the following state agencies are to be informed:

1. LOUISIANA

(a) Department of Conservation

Ed Buford or Mrs. Carolyn Laney
P.O. Box 44276-Capitol Station
Baton Rouge, Louisiana 70804

Office Phone: (504) 342-5595

(b) Stream Control Commission

Robert A. LaFleur
P.O. Drawer FC, University Station
Baton Rouge, Louisiana 70803

Office Phone: (504) 342-6365
(504) 389-2176 (Weekends, Nights & Holidays)

(c) Oil and Hazardous Materials Reporting Services
Baton Rouge, Louisiana

Office Phone: (504) 342-5595

2. TEXAS

(a) Railroad Commission of Texas - District 3
Oil and Gas Division

R. A. Taylor
District Director
5200 Mitchelldale, Suite E-16
P.O. Box 10783
Houston, Texas 77018

Office Phone: (713) 688-3461
Home Phone : (713) 351-0354

(b) Railroad Commission of Texas - District 4
Oil and Gas Division

T. G. Post
Wilson Building
P.O. Box 1821
Corpus Christi, Texas 78403

Office Phone: (512) 822-2539

2. TEXAS (Continued)

(c) Texas Parks and Wildlife Department
4455 South Padre Island Drive
Suite 7
Corpus Christi, Texas 78411

Office Phone: (512) 822-2539

(d) Texas Water Quality Board
1108 Lavaca Street
Corpus Christi, Texas 78403

Office Phone: (512) 822-2548

The Superior Oil Company oil discharge response co-ordinator for Offshore Louisiana, East and West Cameron Area will be:

J. E. Miller - Prod. Foreman	Home Phone:	(318) 774-3527
P.O. Box 228	Office Phone:	(318) 775-5147
Lake Arthur, LA		

The alternate oil discharge response co-ordinators will be:

C. E. Provost - Prod. Super.	Home Phone:	(318) 478-8362
1412 Westmoreland	Office Phone:	(318) 775-5147
Lake Charles, LA		
C. L. McGuffee - Prod. Foreman	Home Phone:	(318) 984-3970
Rt. 1 Box 32 AA	Office Phone:	(318) 775-5147
Grayson, LA		
J. W. Broussard - Prod. Foreman	Home Phone:	(318) 583-2825
Rt. 5 Box 395 AC	Office Phone:	(318) 775-5147
Sulphur, LA		

The oil discharge response operations center will be Superior Oil Company, Cameron Office. This office is equipped with two radio base sets and seven (7) telephone lines. All company boats and platforms are equipped with mobile radio units all operating on our assigned frequency of 153.605 Megahertz. Additional mobile units and 5 portable units operating on the same frequency are available.

The Oil Discharge Response Co-ordinator will contact Peterson Maritime Services and one of the following persons for release of the Clean Gulf Associates equipment as required depending on the severity of the oil spill.

Frank S. Haines, Jr., Chairman	Office Phone:	(504) 524-8511
Texaco, Inc.	Home Phone:	(504) 643-3228
Clean Gulf Associates		
John Cook, Division Manager	Office Phone:	(504) 525-9121
Halliburton Services	Home Phone:	(504) 393-2799
New Orleans, Louisiana		
F. X. DeBlanc	Office Phone:	(504) 366-1735
Halliburton Services	Home Phone:	(504) 366-2866
Harvey Louisiana		
Caro Louviere	Office Phone:	(504) 384-9930
Halliburton Services	Home Phone:	(504) 395-2404
Morgan City, Louisiana		

In the event representatives of Clean Gulf Associates are unavailable, Halliburton Services can be contacted directly for release of CGA equipment.

In order to comply with the U.S. Geological Survey OCS Order Number 7, Paragraph 3.2.e.(4) which requires 3.2.c. (4) Provisions for disposal of recovered spill materials:

1. recovered spill oil will be pumped back into the same system spilled from immediately after this system is repaired, when possible.

2. If the spill is cleaned up with absorbent pads or materials that cannot be put back into the system - these materials will be brought onshore and incinerated.

3. If the spill is a major spill, we have access to portable oil tanks which can be used to transport recovered oil to shore. After the recovered spilled oil is transported to shore, the oil can be sold through the contractors.

On completion of the recovery operations of spilled oil, the volume of the recovered oil will be reported to the respective District Supervisor as provided in Paragraph 2.3 of the OCS Order Number 7.

In addition, to comply with the revised OCS Order Number 7, Paragraph 4.1 and 4.2, the Oil Discharge Response Operating Team will be supplied by Peterson Maritime Services, Inc. On hand in our area field offices are copies of Clean Gulf Assocates' "Protection of Biologically Sensitive Area" study manuals for ready reference in the event of an oil spill under OCS Order Number 7, Paragraph 3.2.c.

Very truly yours,

THE SUPERIOR OIL COMPANY

J. S. Buchanan

J. S. Buchanan
Production Superintendent

MLM/jlc/JSB

SUPERIOR OIL

INTER-OFFICE CORRESPONDENCE

DATE APRIL 15, 1982

TO M. W. KRALL

LOCATION LAFAYETTE

FROM R. L. ROY

LOCATION LAFAYETTE

SUBJECT DRILLING HAZARDS REVIEW
WEST CAMERON BLOCK 71 FIELD
SUPERIOR OIL OCS-0244 NO. 24
WEST CAMERON BLOCK 71
OFFSHORE, LOUISIANA

COPIES M. L. MOUTON

Surface location: 1,600' FSL & 3,500' FWL of West Cameron Block 71.

Bottom Hole Location: Same

High resolution seismic data acquired by Decca Systems, Inc. in 1980 and 24 fold seismic data shot by Western Geophysical Company in 1977, 1978 and 1979 were analyzed for potential drilling hazards beneath the proposed location.

The No. 24 proposed well is located 150 feet south-southeast of a Superior 16" gas pipeline. It is suggested that the pipeline location be surveyed and marked with buoys before the platform be emplaced.

Water depth at the well location is 39 feet. The seafloor dips gently to the south-southwest at a rate of slightly over one foot per mile.

The area is free of channel cut and fill structures, near surface faulting and wipeout zones. Hazardous or abnormal shallow drilling conditions are not anticipated at the subject drilling location.

The following conditions are anticipated:

Subsea Depth	Probability of Gas	Comments
39' - 55'	low	silty and clayey sands
55' - 335'	low	very stiff to stiff clay
335' - 5000'	low	sand-shale sequence

R. L. Roy

R. L. Roy
Sr. Production Geophysicist

RLR:sg

FORM 21 7/80 SOM SUPERIOR

SUPERIOR OIL

INTER-OFFICE CORRESPONDENCE

DATE APRIL 15, 1982

TO M. W. KRALL — LOCATION LAFAYETTE

FROM R. L. ROY — LOCATION LAFAYETTE

SUBJECT SHALLOW HAZARDS ASSESSMENT
WEST CAMERON BLOCK 71 FIELD
SUPERIOR OIL OCS-0245 NO. 10
WEST CAMERON BLOCK 72
OFFSHORE, LOUISIANA

COPIES M. L. MOUTON

Surface Location: 5,650' FNL & 2,650' FEL of West Cameron Block 72.

Bottom Hole Location: 5,500' FNL & 4,350' FEL of West Cameron Block 72.

High resolution seismic data acquired by Decca Survey Systems, Inc. in 1980 and 24 fold seismic surveys shot by Western Geophysical Company in 1977, 1980 and 1981 were analyzed for potential drilling hazards beneath the proposed location.

The No. 10 well will be drilled directionally from the OCS-0245 No. 1 platform.

Hazardous or abnormal drilling conditions are not anticipated at the subject drilling location.

The following conditions are anticipated:

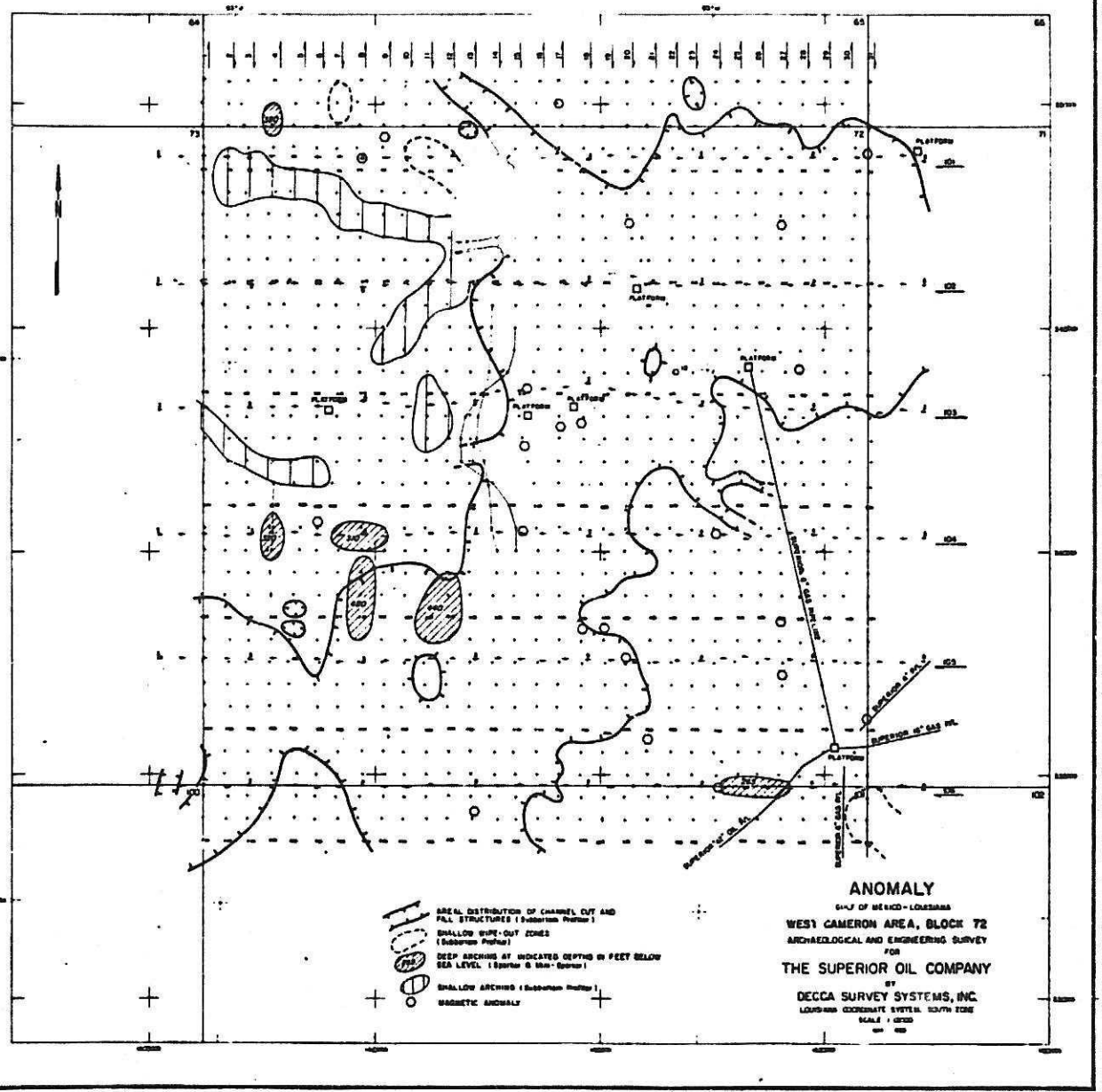
Subsea Depth	Probability of Gas	Comments
37.5'	--	water depth
37.5' - 52'	low	clayey and silty sand unit
52' - 327'	low	stiff clay unit
327' - 5000'	low	sand-shale sequence

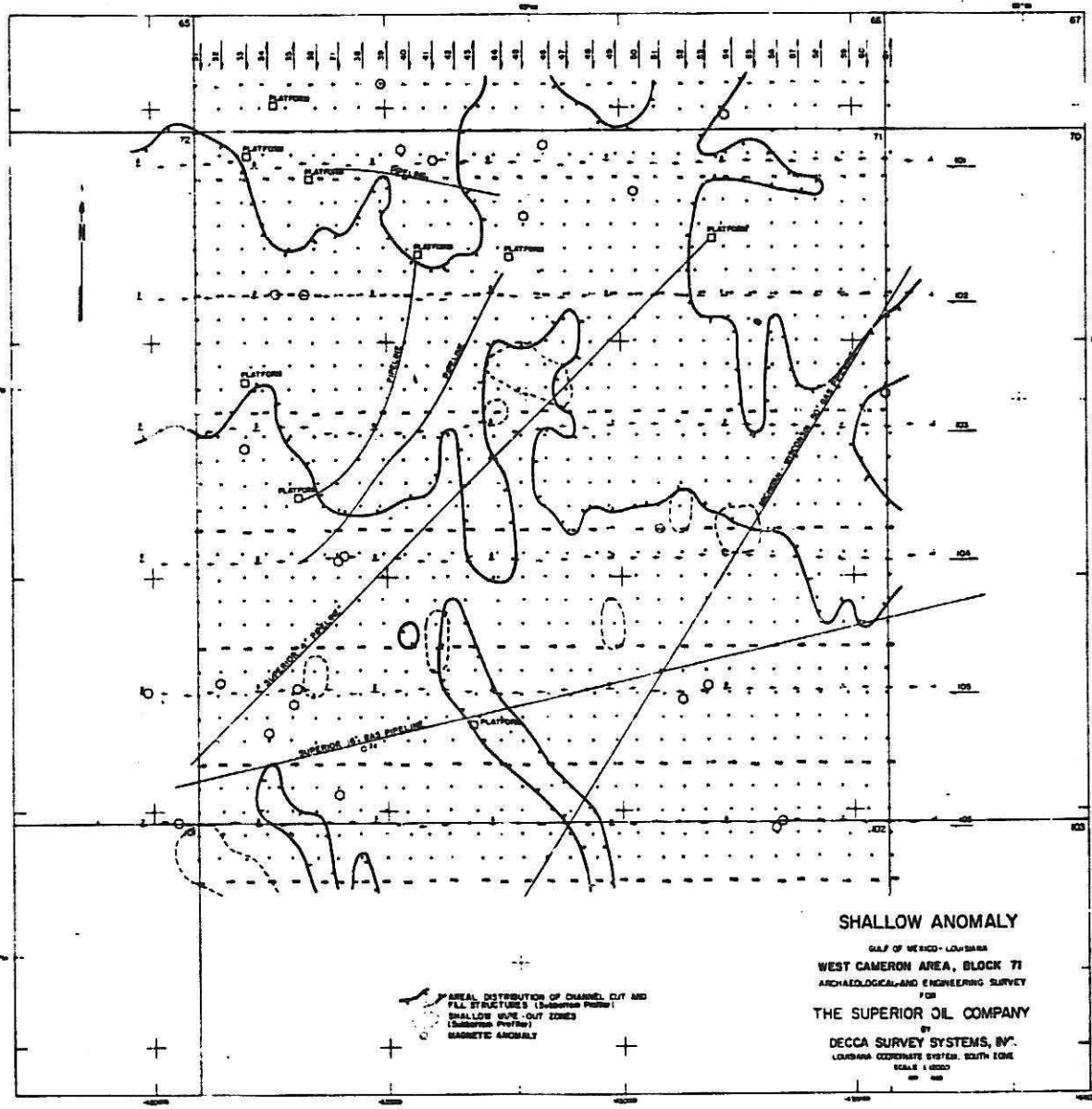
R. L. Roy

R. L. Roy
Sr. Production Geophysicist

RLR:sg

BEST AVAILABLE COPY





SHALLOW ANOMALY

GULF OF MEXICO - LOUISIANA

WEST CAMERON AREA, BLOCK 71

ARCHAEOLOGICAL AND ENGINEERING SURVEY

FOR

THE SUPERIOR OIL COMPANY

BY

DECCA SURVEY SYSTEMS, INC.

LOUISIANA COORDINATE SYSTEM, SOUTH ZONE

SCALE 1:6000

STRUCTURE MAPS & PRESSURE MAPS

This data is submitted with this plan but under a separate cover to maintain the proprietary status of geological data for exploratory prospects.

THE SUPERIOR OIL COMPANY

WEST CAMERON BLOCK 71 OCS-0244
WEST CAMERON BLOCK 72 OCS-0245

PROJECTED EMISSIONS FROM DEVELOPMENT/PRODUCTION OPERATIONS
FOR COMPLIANCE PURSUANT TO 30 CFR 250.57 AIR QUALITY REGULATIONS

I. General Information

Operation Description: Development/Production
Owner/Operator: The Superior Oil Company
Address: Post Office Box 51108 OCS
Lafayette, Louisiana 70505
Contact Person: Gail Abshire, Regulatory Representative

Operation Schedule

Block 71: Drilling
Begin: June 10, 1982
End: July 20, 1982
Production:
Begin: July 1983
End: Continuous

Block 72: Drilling
Begin: July 20,
End: September 1, 1982
Production:
Begin: September 1, 1982
End: Continuous

Distance to Shoreline (mean high water line):
Eleven (11) Statue Miles

Synopsis

The projected emissions derived as a result of this review represent a liberal (maximum) assessment for indicator pollutants. The findings of this assessment indicate that the projcected emissions herein are well below the exemption rates and pose no significant impact on the onshore environment. Based on this assement, no further air quality review is required.

III. Projected Emissions

West Cameron Block 71
Rig/Platform Projected Emnissions (Drilling)

Pollutant	1982* tons/period	Exemption Rate tons/year	Exemption Status
CO	2.56	17,059.84	Exempt
SO 2	.70	366.30	Exempt
NO X	15.82	366.30	Exempt
VOC	.66	366.30	Exempt
TSP	.01	366.30	Exempt

*Only 1.3 month drilling period (June 10, 1982-July 20, 1982)

Service Base Projected Emissions (Drilling)

Pollutant	1982 tons/period
CO	1.04
SO 2	.01
NO X	5.66
VOC	.32
TSP	.01

Platform Projected Emissions (Production)

Pollutant	Tons/Year*	Exemption Rate Tons/year	Exemption Status
CO	7.78	17,059.84	Exempt
SO 2	.91	366.30	Exempt
NO X	22.23	366.30	Exempt
VOC	21.46	366.30	Exempt
TSP	.80	366.30	Exempt

*Continuous production through life of field (Beginning July 1983)

Service Base Projected Emissions (Production)

Pollutant	Tons/year
CO	2.36
SO2	.07
NOX	2.15
VOC	.30
TSP	.09

West Cameron Block 72
Rig/Platform Projected Emissions (Drilling)

Pollutant	1982* tons/period	Exemption Rate	Exemption Status
CO	2.55	17,059.84	Exempt
SO_2	.65	366.30	Exempt
NO_X	15.67	366.30	Exempt
VOC	.66	366.30	Exempt
TSP	.01	366.30	Exempt

*Only 1.3 month drilling period (July 20, 1982-September 1, 1982)

Service Base Projected Emissions Drilling)

Pollutant	1982 tons/period
CO	1.13
SO_2	.01
NO_X	6.18
VOC	.34
TSP	.01

Platform Projected Emission (Production)

Pollutant	Tons/Year*	Exemption Rate	Exemption Status
CO	9.48	17,059.84	Exempt
SO_2	1.17	366.30	Exempt
NO_X	28.53	366.30	Exempt
VOC	2.93	366.30	Exempt
TSP	.09	366.30	Exempt

*Continuous production through life of field (Beginning September 1982)

Service Base Projected Emissions (Production)

Pollutant	Tons/year
CO	2.36
SO_2	.07
NO_X	2.15
VOC	.30
TSP	.09

IV. Exemption Formula

The projected emissions from operations are to be compared with "exemption rules" for the facility location. If the amount of these

IV. (continued)

emissions is ess than or equal to the emission amount "E" for the air pollutant, the facility is exempt for that air pollutant from further air quality revi w.

The following formulas pursuant to 30 CFR Part 250 Sec. 250.57-1 (d) are used to determine exemption rates:

For CO: E= 3400 D 2/3
For TSP, SO NO , VOC: E= 33.3D
D= distance of the facility in statute miles from the closest onshore area.

Based on these exemption formulas, the fol sion rates were computed for Superior Oil West Cameron Bloc . Distance from the nearest onshore area is 11 statute miles.

Pollutant	Exe ption ate tons/year
CO_2	17,059.84
SO	366 30
NO_X	366.30
VOC	36r
TSP	366.30

V. Methodology

Drilling: Horsepower/Hour Method (Power generation factor 60 HP-hr/ft, Reference #1- pg. 86)
Production: Horsepower/Hour Method (Power generation factors Table 4.7 Reference #1- pg. 94)
Transportation Modes: Boats-Horsepower/Hour Method-Reference #2
Helicopters-Landing/Take Off (LTO) cycle method-Reference #2

VI. References

1. EPA-450/3-77-026 June 1977- "Atmospheric Emissions from Offshore Oil and Gas Development and Production" pp. 81-92.

2. EPA Report AP-42 "Compilation of Air Pollutant Emission Factors", 3rd Edition (August, 1977) pp. 116, 125, 127.

3. Federal Register, 7 March 1980 pg. 15136.

Other

VOC emissions due to oil processing are estimated using 35 ft/bbl and .20 lb/ft. Methane and ethane are excluded from the term VOC (Federal Register 7 March, 1980, pg. 15136) and constitute approximately 90% of the vented gas volume, (Reference #1, pg. 126), thus 10% of the total gas volume vented was used to calculate VOC.

EXHIBIT A

Emission Factors Used in Calculations

Emission Factors for Drilling

Pollutant	lb/hp-hr
CO	.0042
SO2	.0019
NOx	.028
VOC	.00095
TSP	*

*Not available from EPA publication

Emission Factors for Production

Pollutant	lb/hp-hr
CO	.00084
SO2	.00013
NOx	.00311
VOC	.00031
TSP	.00011

Emission Factors for Heat Treating in Oil Processing

Pollutant	$lb/10^6$ bbl
CO	285
SO2	8.6
NOx	1,426
VOC	114
TSP	143

Emission Factors in Transportation Modes

Pollutant	Helicopters (lb/engine LTO cycle)	Boats (lb/gal)
CO	5.7	.0598
SO2	.18	*
NOx	.57	.4196
VOC	.52	.0226
TSP	.25	*

*Not available from EPA publication

EXHIBIT B

Miscellaneous Information

Drilling:
Block 70: total well footage to be drilled-12,100 ft.
Block 71: total well footage to be drilled-11,300

Supply Boats:
3000 HP
4 trips per week during drilling
4 hours waiting time

Crew Boats:
3500 HP
7 trips per week during drilling
1 hour waiting time
1 trip per week during production
1 hour waiting time

Helicopters:
2 Engines
Base Cameron
7 trips per week