OMB No. 1010-0044

SUBMIT IN T[illegible]ICATE*

1643

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [V] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [ ] GAS WELL [ ] (Other) EXPL SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
UMC PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR (Where form is completed)
1201 LOUISIANA, SUITE 1400, HOUSTON, TEXAS 77002

4. LOCATION OF WELL (Report location in accordance with instructions*)
At surface 100' FNL & 7150' FWL
At proposed prod. zone STRAIGHT HOLE

5. LEASE PERMIT NO.
OCS-G 8724

6. AREA & BLOCK
SOUTH TIMBALIER BLOCK 228

7. WELL NO.
#1

8. UNIT AGREEMENT
N/A

POSTED - ANA BLAZQUEZ

9. FIELD
WILDCAT

10.
EXPLORATORY [V]
DEVELOPMENT [ ]

11. ADJACENT STATE
LOUISIANA

12. DISTANCE IN MILES AND DIRECTION FROM NEAREST ONSHORE POINT OF DEPARTURE
45 MILES SOUTH OF FOURCHON, LOUISIANA

13. NO. OF ACRES IN LEASE
5000

14. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
0'

15. PROPOSED DEPTH
MD 9500' TVD 9500'

16. RIG NAME & TYPE
ROWAN "PARIS" - JU

17. ELEVATIONS (Show whether DF or RKB)
85'

18. WATER DEPTH
202'

19. APPROXIMATE DATE WORK WILL START
APRIL 10, 1992

20. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE AND GRADE OF CASING		WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT (CU. FT.)
26"	26" X 1"	W.T.	GRADE B	500' MD/TVD	DRIVEN
20"	16"	H-40	65#	1000' MD/TVD	1130 CU FT
13-1/2"	10-3/4"	K-55	45.5#/40.5#	2900' MD/TVD	2255 CU FT
9-7/8"	7"		TO BE DETERMINED	9400' MD/TVD	TO BE DETERMINED

OCS-G 8724 WELL NO. 1 IS BEING DRILLED AS WELL LOCATION "A" UNDER AN INITIAL PLAN OF EXPLORATION APPROVED ON MARCH 4, 1992.

MINERALS MANAGEMENT SERVICE
RECEIVED
APR 06 1992
NEW ORLEANS DISTRICT
GULF OF MEXICO OCS REG.
NEW ORLEANS, LA

SUBJECT TO FEDERAL REGULATIONS AND THE ATTACHED CONDITIONS.
THIS APPROVAL TO BE VOID UNLESS OPERATIONS ARE CONDUCTED IN ACCORDANCE WITH THE APPROVED PLAN OF EXPLORATION.

PROPRIETARY DATA

NEW ORLEANS DISTRICT

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: GIVE BLOWOUT PREVENTER PROGRAM AND MUD PROGRAM OR ATTACH DRILLING PROGNOSIS CONTAINING INFORMATION REQUIRED BY OCS ORDERS.

21.
SIGNED Brian A. Baer TITLE VICE PRESIDENT, OPERATIONS DATE April 3, 1992
BRIAN A. BAER (This space for Federal or State office use)

API No.
PERMIT NO. 17716401866 APPROVAL DATE APR 24 1992

APPROVED BY Donald C. Howard TITLE DONALD C. HOWARD DISTRICT SUPERVISOR NEW ORLEANS DISTRICT DATE APR 27 1992

CONDITIONS OF APPROVAL, IF ANY:
See attached pink Sheet

Seismic data indicates potential for gas sand at 1110, 2950 ' SS.
SHALLOW HAZARD 8/16 SS

Noted – L. Herbst
NOTED

Form MMS-331C (May 1983)
(Supersedes USGS Form 9-331C which will not be used)

*See instructions on reverse

UMC PETROLEUM CORPORATION

APPLICATION FOR MMS PERMIT TO DRILL

WELL:	OCS-G 8724, Well No. 1
AREA:	South Timbalier Block 228
SURFACE LOCATION:	100' FNL & 7150' FWL
BHL:	100' FNL & 7150' FWL
RIG:	Rowan "Paris"
KB ELEVATION:	+/- 85' (Estimate)
WATER DEPTH:	+/- 202' (Estimate)
TOTAL DEPTH:	9,500' MD/TVD

GENERAL DRILLING PROGRAM

Drive 26" X 1" W.T. drive pipe to refusal. Nipple up diverter system and function test prior to drilling out.

Drill a 20" hole to +/- 1000' MD/TVD. Run and cement 16",65#, H-40 conductor casing with 1130 cubic feet. Install 16-3/4" 3M X 16" SOW with baseplate. Nipple up 29-1/2" diverter system on 16" conductor casing. Test diverter and conductor casing to 250 psi prior to drilling out. BOP system on 16" casing. Test 16" conductor casing to 250 psi for 30 minutes.

Drill a 13-1/2" hole to +/- 2900' MD/TVD. Run and cement 10-3/4", 40.5# & 45.5#, K-55 surface casing with 2255 cubic feet. After cementing, install a 16-3/4" 3M X 11" 5M casing spool. RU and test BOP's to low of 250 psi and high of 5000 psi, annular to low of 250 psi and high of 3500 psi. Test 10-3/4" surface casing to 2000 psi for 30 minutes. Drill cement and shoe, perform a formation integrity test to 13.0+ ppg EMW.

Drill a 9-7/8" hole to +/- 9400'. Condition hole and log. Run magnetic multi-shot survey when POOH to log. If UMC elects to plug and abandon the well, the procedure will be done in accordance with Title 30 CFR Part 250.112.

GEOLOGICAL DATA

FORMATION	DEPTH (TVD)	POTENTIAL PRODUCTION
3000' Sand	2950'	Gas
Hyalinea B	7130'	Gas
Cristellaria N-2	7500'	Gas
Bulminella	8900'	Gas

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LOGGING PROGRAM

DEPTH INTERVAL (TVD)	TYPE OF LOGS/SURVEYS
2,900' - 9400'	DIL/LDT/CNL/GR

MUD PROGRAM

DEPTH (TVD)	MUD WEIGHT	TYPE OF MUD
0' - 2900'	9.0 - 9.3	Native Gel
2900' - 6000'	9.3 - 10.0	Lignosulfonate
6000' - 9400'	10.0 - 12.5	Lignosulfonate

MINIMUM QUANTITIES

The greater of 1000 sxs of Barite or enough to raise the weight of the entire system 2.0 ppg. Additionally, at least 200 sxs of gel will be on board at all times.

Mud Weight, Pore Pressure, Fracture Gradient Chart Enclosed

Storage capacity of the rig: SEE RIG INVENTORY

Method of disposal: FRESH WATER AND SALT WATER BASED CUTTINGS AND MUD WILL BE DISPOSED OF OVERBOARD AS LONG AS TOXICITY REQUIREMENTS ARE MET. ANY WHICH DO NOT MEET EPA REQUIREMENTS AND ALL OIL-BASED CUTTINGS AND EFFLUENT WILL BE BARGED TO SHORE FOR PROPER DISPOSAL.

ALL DISCHARGES WILL BE IN ACCORDANCE WITH EPA NPDES GENERAL PERMIT GMG280000 WHICH EXPIRED JUNE 28, 1991 AND WAS ADMINISTRATIVELY EXTENDED UNTIL SUCH TIME AS THE NEW NPDES GENERAL PERMIT GMG290000 BECOMES EFFECTIVE

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CEMENTING PROGRAM

CONDUCTOR CASING - 16" @ 1000' MD/TVD

Lead: 800 Cu Ft (35% Flash, 65% Class "A",6% Gel)
Tail: 330 Cu Ft (Class "H")
Total: 1130 Cu Ft

SURFACE CASING - 10-3/4" @ 2900' MD/TVD

Lead: 1700 Cu Ft (35% Flash, 65% Class "A",6% Gel)
Tail: 555 Cu Ft (Class "H")
Total: 2255 Cu Ft

PRODUCTION CASING - 7" @ 9400' MD/TVD

Lead: To Be Determined

ALL ZONES CONTAINING GAS, OIL AND/OR FRESH WATER WILL BE FULLY PROTECTED WITH CASING AND CEMENT.

NOTE: THESE ARE MINIMUM QUANTITIES. THE AMOUNTS ARE ACTUALLY MIXED AND PUMPED ON SITE WILL BE AT LEAST THIS MUCH.

BOP PROGRAM

CASING STRING	REQUIREMENTS	TEST PRESSURE **
26"	Diverter	Function Test
16"	Diverter	Function Test
10-3/4" Surface	1 Annular	250 and 3500
	1 Blind Ram	250 and 5000
	2 Pipe Rams	250 and 5000
7" Production	1 Annular	250 and 3500
	1 Blind Ram	To Be Determined
	2 Pipe Rams	To Be Determined

** UMC Petroleum Corporation is requesting approval for the ram preventers to be tested to 5000 psi for the following reason: This value is in excess of MASP.

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MAXIMUM ANTICIPATED SURFACE PRESSURE CALCULATIONS

1. Maximum anticipated surface pressures were calculated as follows:

   A. 26" and 16" - From 0' to 2900' the well will have a diverter system. The well will not be shut-in. The string and BOP will be used for diverting only.

   B. 10-3/4" - .052 X TVD X Fracture Gradient Minus Gas Column X .115

   (.052 X 2900 X 13.5 - (828 X .115) = 1941

2. Burst Safety Factor

   Burst safety factors were calculated assuming internal pressure equal to maximum surface pressure plus gradient of gas or fresh water, minus a backup of mud weight casing set in.

3. Collapse Safety Factor

   16" and 10-3/4" - Assumed formation capable of supporting a column of fresh water (.433 psi/ft) with collapse pressure equal to mud weight casing set in.

DIVERTER PROCEDURE

From 0' to 2900', a 21-1/4" 2000 psi diverter will be installed and function tested. The well will not be shut-in against the diverter. The drill string and hydril will be used to divert flow only.

If a well flow is detected while drilling to 2900', the following steps will be taken:

A. Pump at maximum rate while pulling kelly above rig floor.

B. Close diverter and ensure downwind diverter lines are open.

C. Continue pumping mud at maximum rate.

D. Line up seawater to rig pump suctions. If mud supply is exhausted, switch to seawater and continue pumping at maximum rates.

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Casing Design

UNITED MERIDIAN CORPORATION S.T.228 #1

Conductor	
MD =	1000.00
TVD =	1000.00
Frac. =	12.10
MW =	9.00
Size =	16.00
Wt./ft. =	65.00
Grade =	H-40
Thread =	BT&C
Burst Rating =	1640.00
Coll. Rating =	670.00
Tens. Rating =	736000.00
MASP =	579
Burst =	3.10
Collapse =	1.82
Tension =	13.13

Surface	
MD =	2900.00
TVD =	2900.00
Frac. =	13.50
MW =	9.50
Size =	10.75
Wt./ft. =	40.50
Grade =	J-55
Thread =	STC
Burst Rating	3130.00
Coll. Rating	1580.00
Tens. Rating	436000.00
Mud Column =	2872
Gas Column =	828
MASP =	1941
Burst =	1.57
Collapse =	1.38
Tension =	4.48

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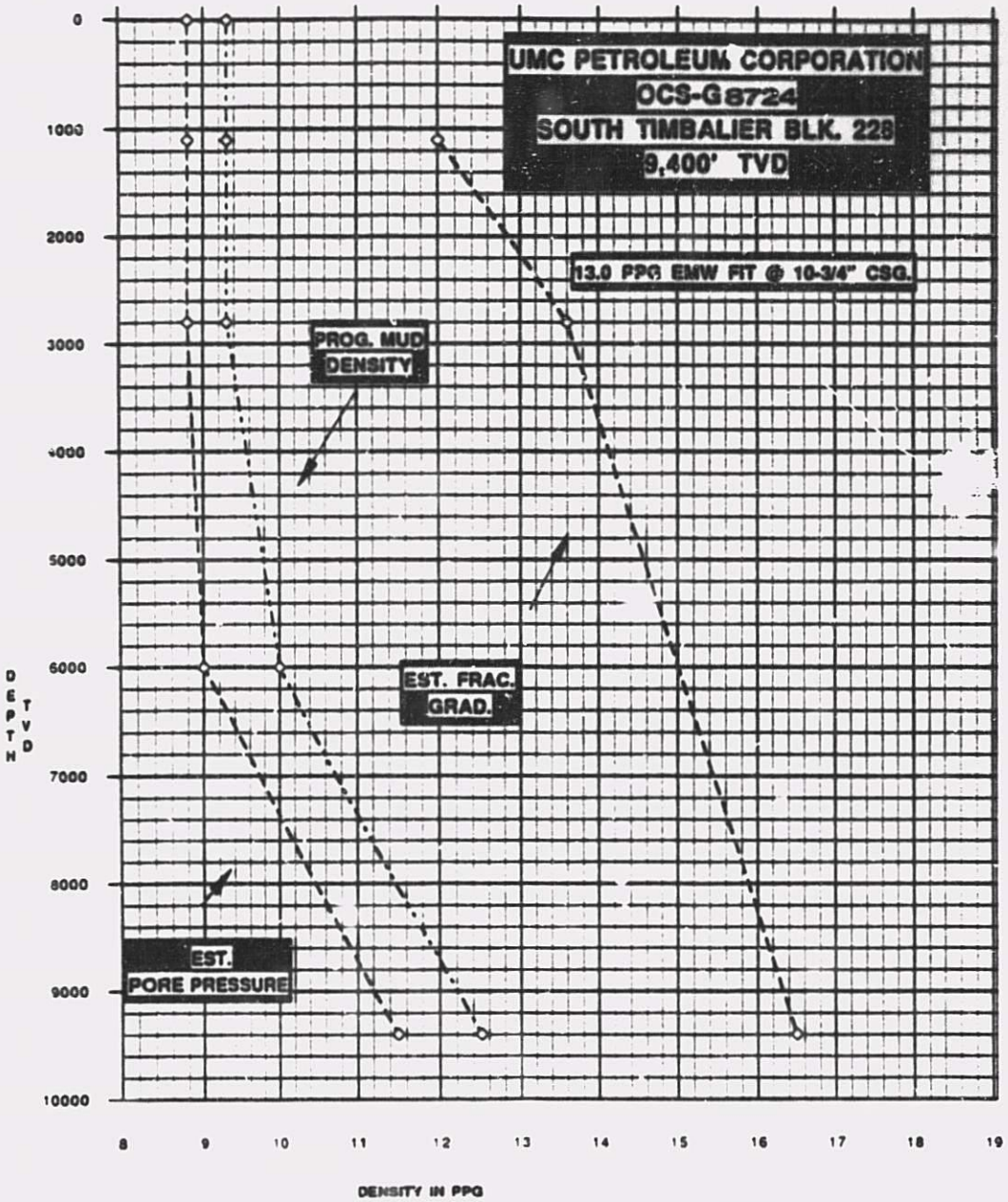

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#1 SL: 100' FNL & 7150' FWL
BHL: STRAIGHT HOLE

UMC PETROLEUM CORPORATION
SOUTH TIMBALIER BLOCK 228
LOCATION PLAT
OCS-G 8724
SCALE: 1" = 1000' CAT/SB/1992

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UMC PETROLEUM CORPORATION
CASING PROGRAM
SOUTH TIMBALIER BLOCK 228, WELL NO. 1

SETTING DEPTH (TVD)	HOLE SIZE	CASING SIZE	WEIGHT	GRADE	THREAD	MINIMUM SAFETY FACTORS			MAXIMUM SURFACE PRESSURE	CASING TEST	SHOE TEST	CEMENT CU. FT.
						BURST	COLL	TENSION				
	DRIVE PIPE											
500'	26"	DRIVEN	310	"B"	PE	NA - WELL WILL NOT BE SHUT IN ON THIS STRING - DIVERTER PROCEDURES WILL BE IMPLEMENTED IN THE EVENT WELL CONTROL IS NECESSARY						
	CONDUCTOR CASING											
1000'	20"	16"	65	H-40	BTC	3.10	1.82	13.13	*	250		1130
	SURFACE CASING											
2900'	13-1/2"	10-3/4"	45.5/40.5	K-55	STC	1.57	1.38	4.48	1941	2000	13.0+	2255
	PRODUCTION CASING											
0400'	9-7/8"	7"	TBD	TBD	TBD							TBD

* SEE PAGE FOUR FOR MAXIMUM ANTICIPATED SURFACE PRESSURE CALCULATIONS.

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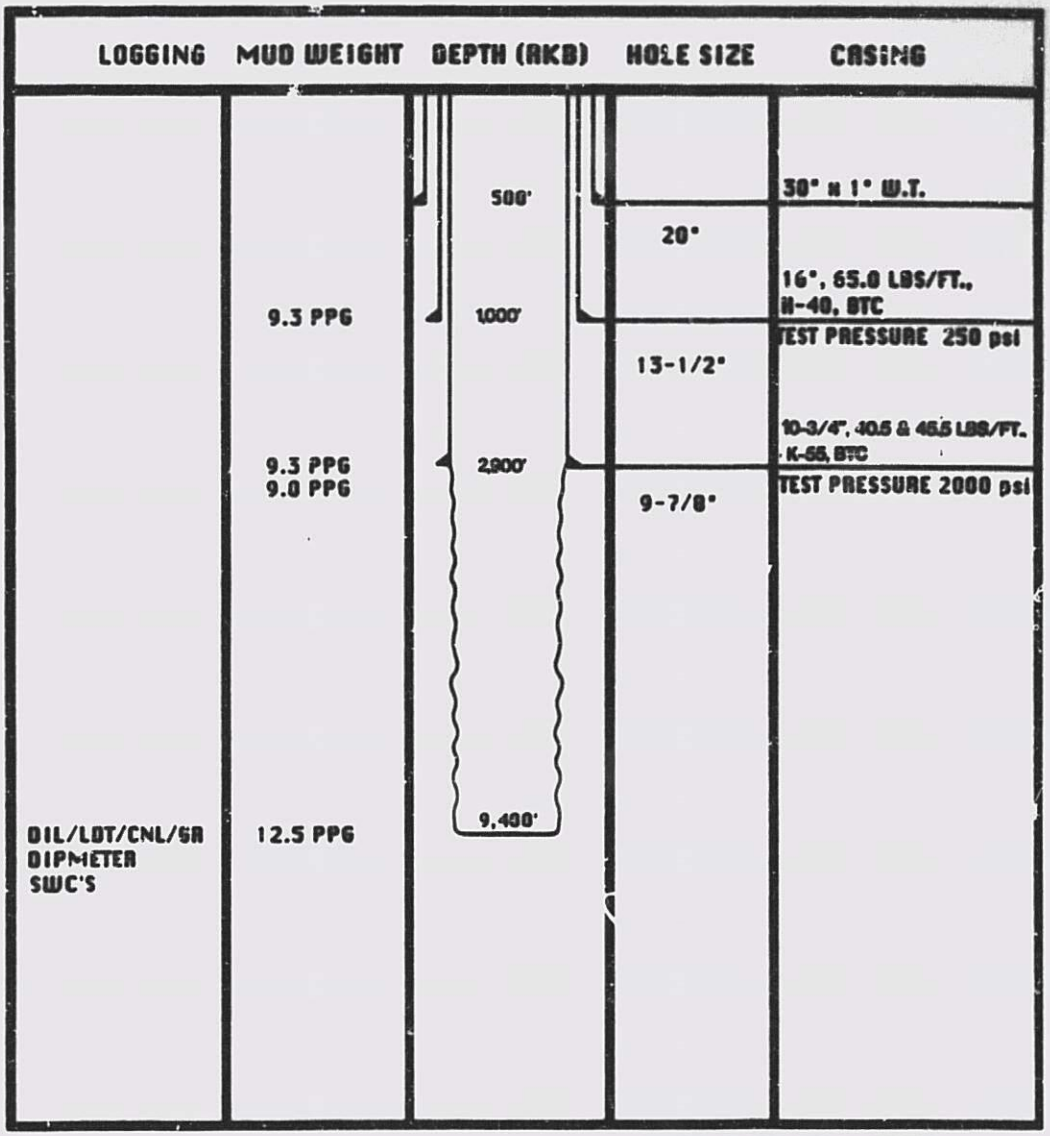
PROGNOSIS SCHEMATIC

OPERATOR: UMC PETROLEUM CORP. **DATE:** 3/6/92

WELL NAME: OCS-G 8724 **TVD:** 9,400'

CO./PH./STATE: OFFSHORE, LOUISIANA **MD:** 9,400'

LOCATION: SOUTH TIMBALIER BLOCK 228



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Drilling Fluids Product Directory

Product Name	Description	Nondispersed	Dispersed	Saturated Salt	Fresh Water	Oil Based	Normal Concentration	Passed LC 50	[illegible]
BACTERICIDES									
AMBAR, INC.									
AMCIDE	[illegible]	•	•	•	•	•	0.05	Y	[illegible]
BAROID DRILLING FLUIDS, INC.									
ALDACIDE	[illegible]	•	•	•	•		2-5	Y	Y
BARA-[illegible]	[illegible]	•	•	•	•		1-3 gal/100		
CHEMUNIK, INC.									
CPC [illegible]	[illegible]	•	•	•	•		0.01	NO	
CPC [illegible]	[illegible]	•	•	•	•		0.01	NO	
DRILLSAFE BOHRTECHNIK GMBH									
DSB 100 / 200 300	[illegible], liquid and dry form	•	•		•				
INTERNATIONAL DRILLING FLUIDS, INC.									
IDCIDE P	Powdered [illegible]	•	•	•	•		0.1-[illegible]	Y	Y
IDCIDE L	Liquid [illegible]	•	•	•	•		[illegible]	Y	Y
MAYCO WELLCHEM INC.									
MAYCO-CONCIDE	[illegible] Corrosion inhibitor	•	•	•	•		2-3	NO	
M-I DRILLING FLUIDS CO.									
[illegible]	[illegible]	•	•	•	•		.015?	Y	Y
MESSINA INC.									
[illegible]	[illegible]	•	•	•	•		15	NO	
WELCIDE	[illegible]		•	•	•		2	NO	
WELCIDE 4	[illegible]	•	•	•	•		2	NO	
WELCIDE-172	[illegible]	•		•	•		2	NO	
WELCIDE-032	[illegible]	•	•	•	•			NO	
CIDE-COR	Liquid biocide/Corrosion inhibitor			•			1.5	NO	
MONTELLO, INC.									
[illegible]	[illegible]		•	•	•				
OSCA									
OSCA [illegible]	[illegible]	•	•	•			Liquid [illegible]		[illegible]
PETROLITE OIL FIELD CHEMICAL GROUP									
[illegible]	[illegible]	•	•		•		2175?	Y	Y
STOLLER CHEMICAL COMPANY, INC.									
KNOCKOUT [illegible]	[illegible]	•	•	•	•		[illegible]	Y	Y
WELCHEM, INC.									
[illegible]	[illegible]	•	•	•	•		3	Y	Y
CORROSION INHIBITORS									
AMBAR, INC.									
AMCOR	Filming amine	•	•	•	•		0.21?	Y	[illegible]
AMCOR HT	[illegible] @ 450°	•	•	•	•		0.13	Y	[illegible]
BAROID DRILLING FLUIDS, INC.									
BARACOR 113	Oxygen inhibitor	•	•	•	•		[illegible]	Y	Y
BARACOR 129	[illegible]	•	•	•	•		1 gal		
BARACOR [illegible]	[illegible]	•	•	•	•		[illegible]		
BARAFILM	Filming [illegible]	•	•	•	•		[illegible]		
BARASCAV-D	Powdered O_2 [illegible]	•	•	•	•		1 lb/gal?		
BARASCAV-L	[illegible]	•	•	•	•		[illegible]		
NO-SULF	[illegible] sulfide	•	•	•	•		[illegible]		Y
CHEMUNIK, INC									
[illegible] CI 9100	[illegible]	•			•		0.5	Y	
[illegible] CI 9714	[illegible]	•	•		•		0.5	Y	
[illegible] KCI 9450	[illegible]				•		0.25	Y	
[illegible] KCI 4790	[illegible]	•	•		•		0.25	Y	
DRILLSAFE BOHRTECHNIK GMBH									
[illegible]	[illegible]	•	•	•		•			
[illegible]	[illegible]	•	•	•		•			
[illegible]	[illegible]	•	•	•		•			
[illegible]	CO_2 [illegible]	•	•	•					
[illegible]	Oil base fluid				•	•			
[illegible] PRODUCTS CO.									
[illegible] SPONGE	[illegible]	•	•	•	•		2-5	Y	[illegible]
MAYCO WELLCHEM, INC.									
MAYCO-[illegible]	Corrosion inhibitor	•	•	•	•		1-2	NO	
M-I DRILLING FLUIDS CO.									
CONQOR 101	Water dispersible amine		•	•	•		4-6	Y	Y
CONQOR 202	[illegible]		•	•			4-6	Y	Y
CONQOR 404	Organic inhibitor	•	•	•	•		[illegible]	Y	Y
[illegible]	Scale inhibitor	•	•	•	•		[illegible]	Y	Y
SULF-X	Sulfide scavenger	•	•	•	•		1-2?	Y	Y
MESSINA INC.									
MESUCO-SORB	H_2S Scavenger	•	•	•	•		6	Y	Y
H2 LESS	Liquid H_2S Scavenger	•			•		.2	Y	Y
FERRO-SPONGE	Powdered H_2S Scavenger			•		•	20	Y	Y
[illegible] SPONGE	Powdered H_2S Scavenger		•		•	•	20	Y	Y
SORB-OX	Oxygen Scavenger	•		•			.2	Y	[illegible]
SORB-OX L/D	Oxygen Scavenger	•		•			1	Y	[illegible]
SORB-OX P	Oxygen Scavenger	•	•	•	•		1	Y	[illegible]
[illegible]	Corrosion inhibitor/biocide		•	•			4	NO	
[illegible]	Filming [illegible] inhibitor	•	•	•	•	•	1	NO	
[illegible]	Corrosion inhibitor	•	•		•		1	NO	
MILPARK DRILLING FLUIDS									
MIL-GARD	H_2S Scavenger [illegible]	•	•	•	•	•	[illegible]	Y	[illegible]
MIL-GARD [illegible]	Sulfide scavenger [illegible]		•	•	•		6	Y	
NOXYGEN	Liquid oxygen scavenger	•	•	•	•		[illegible]	Y	Y
SCALE BAN	[illegible] inhibitor	•	•	•	•		1	Y	Y
[illegible]	Corrosion inhibitor [illegible]				•		[illegible]	Y	Y
OSCA									
OSCA [illegible]	[illegible]	•	•	•			[illegible] gal/bbl		[illegible]
OSCA [illegible]	[illegible]						1375 gal/bbl		
OSCA [illegible]	[illegible]						[illegible]		
OSCA [illegible]	[illegible] CO_2 [illegible]						5.5		
OSCA [illegible]	Oxygen scavenger	•	•	•	•		[illegible]		
OSCA [illegible]	Filming [illegible] inhibitor			•					
OSCA [illegible]	[illegible]			•					
OSCA [illegible]	[illegible]			•			[illegible] gal/bbl		
PETROLITE OIL FIELD CHEMICALS GROUP									
[illegible]	Corrosion inhibitor	•	•	•	•		25	Y	Y
[illegible]	Corrosion inhibitor	•	•	•	•		[illegible]	Y	Y
STOLLER CHEMICAL COMPANY, INC.									
KNOCKOUT 101	Oxygen scavenger [illegible]	•	•	•	•		[illegible]	NO	
KNOCKOUT [illegible] 700	H_2S Scavenger [illegible]	•	•	•	•		1.25	Y	Y
[illegible] 110	Corrosion inhibitor	•	•	•	•		[illegible]	NO	
DEFOAMERS									
AMBAR INC									
[illegible] STERATE	[illegible]	•	•	•	•		0.05	Y	[illegible]
[illegible]	[illegible]	•	•	•	•		0.07	Y	[illegible]
BAROID DRILLING FLUIDS, INC.									
[illegible] DEFOAM	[illegible]	•	•	•	•		1-2	Y	[illegible]
BARA DEFOAM [illegible]	[illegible]	•	•	•	•		[illegible]	Y	[illegible]

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Product Name	Description		Concentration		
[illegible] W200	[illegible]	• • • •	.01- 1		
FOAM-BLASTER	[illegible]	• • • • • • • •	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	• • • • • • • •	20%	[illegible]	[illegible]
COASTAL FLUID TECHNOLOGIES, INC					
COASTAL [illegible]	[illegible]	• • • •	as needed	[illegible]	[illegible]
CESCO CHEMICAL, INC					
CESCO DEFOAM	[illegible]	• • • •	0.1	[illegible]	[illegible]
CHEMLINK, INC.					
[illegible]	[illegible]	• • • • • •	0.2	[illegible]	
DRILLSAFE BOHRTECHNIK GMBH					
[illegible]	[illegible]	• • • •			
[illegible]	[illegible]	• •			
EXXON CHEMICAL COMPANY					
[illegible] ANTIFOAM	[illegible]	• • • • •	0.1	[illegible]	[illegible]
INTERNATIONAL DRILLING FLUIDS, INC.					
[illegible]	[illegible]	• • • •	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]	[illegible]
MAYCO WELLCHEM, INC.					
MAYCO-DEFOAM	[illegible]	• • • • • •		[illegible]	
M-I DRILLING FLUIDS CO.					
DEFOAM-[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]	[illegible]
MESSINA INC.					
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]	
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]	[illegible]
[illegible] DRILLING FLUIDS					
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]	[illegible]
[illegible] DEFOAM	[illegible]	• • • • • • • •	[illegible]	[illegible]	[illegible]
MONTELLO, INC.					
[illegible]	[illegible]	• • • •			
OSCA					
OSCA DEFOAMER	[illegible]	• • • • • • • •	[illegible]		
OSCA DEFOAMER [illegible]	[illegible]	• • • • • • • •	[illegible]		
OSCA [illegible]	[illegible]	• • • •	as needed		
STOLLER CHEMICAL COMPANY, INC.					
DEFOAMER [illegible]	[illegible]	• • • • • •		[illegible]	
SUN DRILLING PRODUCTS CORP.					
[illegible] DEFOAM	[illegible]	• • • •	[illegible]	[illegible]	[illegible]

EMULSIFIERS

Product Name	Description		Concentration		
AMBAR, INC.					
[illegible]	[illegible]	• •	[illegible]	[illegible]	
[illegible]	[illegible]	•	[illegible]	[illegible]	
BAROID DRILLING FLUIDS, INC.					
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	• •	[illegible]	[illegible]	[illegible]
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CHEMLINK, INC.					
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Product Name	Description		Concentration	
DRILLSAFE BOHRTECHNIK GMBH				
[illegible]	[illegible]	• •		
[illegible]	[illegible]	• • •		
[illegible]	[illegible]	• • • • • •		
[illegible]	[illegible]	•		
[illegible]	[illegible]	•		
[illegible]	[illegible]			
[illegible]	[illegible]	• • •		
KELCO				
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]
M-I DRILLING FLUIDS CO.				
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]
[illegible]	[illegible]	• • • • • • •	[illegible]	[illegible]
[illegible]	[illegible]	• •	[illegible]	
MESSINA INC.				
[illegible]	[illegible]	• • • • •	1	[illegible]
[illegible]	[illegible]	• • • • •	1	[illegible]
[illegible]	[illegible]	• • • • •	1	[illegible]
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[illegible]	[illegible]	• •	[illegible]	[illegible]
MONTELLO, INC.				
[illegible]	[illegible]	• • • • • • •		
WELCHEM, INC.				
[illegible]	[illegible]	• • • • • • •	[illegible]	[illegible]

FLOCCULANTS

Product Name	Description		Concentration	
AMBAR, INC.				
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]
BAROID DRILLING SUPPLY, INC.				
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]
[illegible]	[illegible]	• • • • • • • •	[illegible]	[illegible]
CHEMLINK, INC.				
[illegible]	[illegible]	• • • •	[illegible]	[illegible]
DIXIE CHEMICAL				
[illegible]	[illegible]	• • • • •		[illegible]
[illegible]	[illegible]	• • • • • •		[illegible]
GRAIN PROCESSING CORP.				
[illegible]	[illegible]	• •	[illegible]	[illegible]
KELCO				
[illegible]	[illegible]	• •	[illegible]	[illegible]
M-I DRILLING FLUIDS CO.				
[illegible]	[illegible]	• • •	[illegible]	[illegible]
MESSINA INC.				
[illegible]	[illegible]	• • •	[illegible]	[illegible]
[illegible]	[illegible]	• • •	[illegible]	[illegible]
[illegible]	[illegible]	• • •	[illegible]	[illegible]
MONTELLO, INC.				
[illegible]	[illegible]	•		
[illegible]	[illegible]	•		
WELCHEM, INC.				
[illegible]	[illegible]	• • • • •	[illegible]	[illegible]
[illegible]	[illegible]	• • • • •	[illegible]	[illegible]
[illegible]	[illegible]	• • • • •	[illegible]	

FLUID LOSS, VISCOSITY CONTROL AGENTS

Product Name	Description		Concentration	
AMBAR, INC.				
[illegible]	[illegible]	• • • • •	[illegible]	[illegible]
[illegible]	[illegible]	• • • • •		[illegible]
[illegible]	[illegible]	• • • • •	[illegible]	[illegible]
[illegible]	[illegible]	• • • • •	[illegible]	[illegible]
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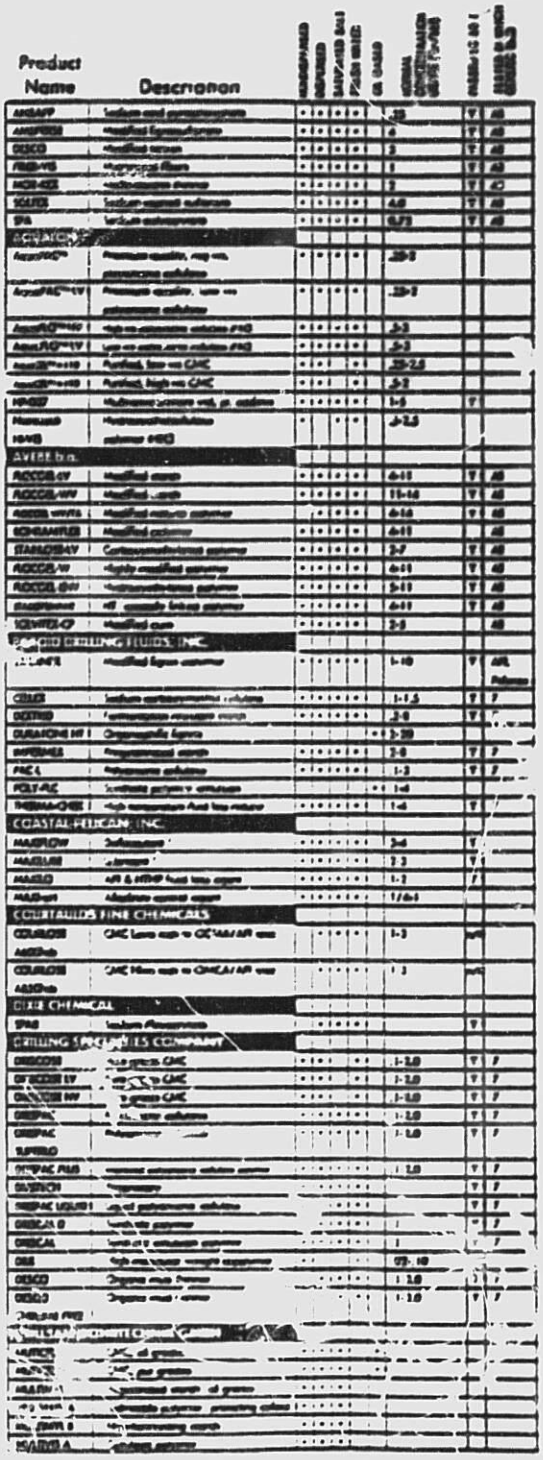

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Form No. 2115-0517

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD

CERTIFICATION DATE: 03AUG90
EXPIRATION DATE: 03AUG92

Certificate of Inspection

LAST HULL EXAM: 13JUL89 DRYDOCK

VESSEL NAME	OFFICIAL NUMBER	CALL SIGN	SERVICE
ROWAN PARIS	D627258		MODU

HOME PORT	HULL MATERIAL	HORSEPOWER	PROPULSION
HOUSTON, TX	STEEL		

PLACE BUILT	DATE BUILT	GROSS TONS	NET TONS	DWT	LENGTH
VICKSBURG, MS	30SEP80	6627	6627		243.10

OWNER	OPERATOR
ROWAN COMPANIES INC. 1900 POST OAK TOWER 5051 WESTHEIMER HOUSTON, TX 77056	ROWAN COMPANIES INC. 1900 POST OAK TOWER 5051 WESTHEIMER HOUSTON, TX 77056

THIS VESSEL MUST BE MANNED WITH THE FOLLOWING LICENSED AND UNLICENSED PERSONNEL, INCLUDED IN WHICH THERE MUST BE 3 CERTIFICATED LIFEBOATMEN AND 0 CERTIFICATED TANKERMAN.

___ MASTER	___ MASTER & 1ST CLASS PILOT	2 ABLE SEAMEN	___ CHIEF ENGINEER	___ FIREMEN/WATERTENDERS	
___ CHIEFMATE	___ ___ CLASS PILOT	___ ORDINARY SEAMEN	___ 1ST ASST. ENGINEER	___ OILERS	
___ 2ND MATE	___ RADIO OFFICER(S)	___ DECKHANDS	___ 2ND ASST. ENGINEER	___ ___	
___ ___ MATES	___ ___ OPERATOR(S)	___ ___	___ ___ ENG'RS.	___ ___	

IN ADDITION, THIS VESSEL MAY CARRY 0 PASSENGERS, ___ OTHER PERSONS IN CREW, ___ PERSONS IN ADDITION TO CREW, AND 75 INDUSTRIAL PERSONNEL, TOTAL PERSONS ALLOWED: 78

ROUTE PERMITTED AND CONDITIONS OF OPERATION:

OCEANS

A PERSON IN CHARGE SHALL BE DESIGNATED.

SPECIAL TENSILE STEELS USED IN CONSTRUCTION. SEE CONSTRUCTION PORTFOLIO PRIOR TO COMMENCING REPAIRS.

IMMERSION SUITS ARE NOT REQUIRED WHEN VESSEL IS OPERATING IN THE ATLANTIC OCEAN BETWEEN 32 DEGREES NORTH AND 32 DEGREES SOUTH LATITUDE OR ANY OTHER WATERS BETWEEN 35 DEGREES NORTH AND 35 DEGREES SOUTH LATITUDE.

*** SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION ***

WITH THE INSPECTION HAVING BEEN COMPLETED AT GULF OF MEXICO (SS 68) ON 03AUG90 THE VESSEL IS CERTIFIED BY THE OFFICER IN CHARGE, MARINE INSPECTION, MORGAN CITY, LOUISIANA TO BE IN ALL RESPECTS IN CONFORMITY WITH THE APPLICABLE VESSEL INSPECTION LAWS AND THE RULES AND REGULATIONS PRESCRIBED THEREUNDER.

PERIODIC REINSPECTIONS

DATE	ZONE	SIGNATURE

THIS CERTIFICATE ISSUED BY:

J. P. WISOCKI, CDR, USCG
OFFICER IN CHARGE MARINE INSPECTION
MORGAN CITY, LOUISIANA
INSPECTION ZONE

CG-841 (Rev. 3-85)
PREVIOUS EDITIONS ARE OBSOLETE

SN 7530-00-FCI-0170

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DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD

Certificate of Inspection

ROWAN PARIS | PAGE 2 | CERTIFICATION DATE: 03AUG90

--- STABILITY ---

LETTER | APPROVAL DATE/ 20OCT89 | OFFICE/ MSC

--- INSPECTION STATUS ---

PRESSURE VESSELS

TYPE	LOCATION	LAST	NEXT
AIR RECEIVER	DRILL FLOOR	03AUG90	03AUG92
AIR RECEIVER	GENERATOR ROOM	03AUG90	03AUG92
AIR RECEIVER	GENERATOR ROOM	03AUG90	03AUG92
AIR RECEIVER	P-TANK AIR	03AUG90	03AUG92
AIR RECEIVER	P-TANK AIR	03AUG90	03AUG92
DRY BULK	BARITE TANK	03AUG90	03AUG92
DRY BULK	BARITE TANK	03AUG90	03AUG92
DRY BULK	BARITE TANK	03AUG90	03AUG92
DRY BULK	BARITE TANK	03AUG90	03AUG92
DRY BULK	CEMENT TANK	03AUG90	03AUG92
DRY BULK	CEMENT TANK	03AUG90	03AUG92
DRY BULK	CEMENT TANK	03AUG90	03AUG92
DRY BULK	CEMENT TANK	03AUG90	03AUG92
DRY BULK	HALLIBURTON ROO	03AUG90	03AUG92

--- LIFESAVING EQUIPMENT ---

	NUMBER	PERSONS		REQUIRED
TOTAL EQUIPMENT FOR		78	LIFE PRESERVERS(ADULT)...	98
LIFEBOATS(TOTAL).....			LIFE PRESERVERS(CHILD)...	
LIFEBOATS(PORT)*.....	1	28	RING BUOYS(TOTAL).....	8
LIFEBOATS(STARBD)*...	1	50	WITH LIGHTS*.....	4
MOTOR LIFEBOATS*.....	2	78	WITH LINE ATTACHED*....	2
LIFEBOATS W/RADIO*...			OTHER*.....	2
RESCUE BOATS/PLATFORMS.			IMMERSION SUITS.....	84
INFLATABLE RAFTS.....	5	100	PORTABLE LIFEBOAT RADIOS.	1
LIFE FLOATS/BUOYANT APP			EQUIPPED WITH EPIRB?.....	YES
WORKBOATS (NOT REQUIRED)			(* INCLUDED IN TOTALS)	

--- FIRE FIGHTING EQUIPMENT ---

TOTAL HOSE LENGTH/ 1050 NUMBER OF FIRE AXES/ 2 NUMBER OF FIRE PUMPS/ 2

FIXED EXTINGUISHING SYSTEMS

SPACE PROTECTED	AGENT	CAPACITY
PAINT LOCKER	CO2	75
ENGINE ROOM	HALON	1335

FIRE EXTINGUISHERS - HAND PORTABLE AND SEMI-PORTABLE

7 A-II B-I 11 B-II B-III
C-IV 1 B-V 2 C-I 2 C-II

*** END ***

DEPT. OF TRANSP., USCG, CG-841 (Rev. 3-85)
PREVIOUS EDITIONS ARE OBSOLETE

SN 7530-00-FOI-0370

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INTERNATIONAL LOAD LINE CERTIFICATE (1966)

Issued under the provisions of the International Convention on Load Lines, 1966, under the authority of the Government of the

UNITED STATES OF AMERICA,

Commandant, U. S. Coast Guard,

by the American Bureau of Shipping

duly authorized for assigning purposes under the provisions of the Convention

8008402-4
Certificate No.

Name of Ship	Official number or Distinctive Letters	Port of Registry	Length (L) as defined in Article 2 (8); i.e., 46 CFR 42.[illegible]15
ROWAN PARIS	627258	[illegible]STON, TEXAS	233.36'

Freeboard assigned as: * { A new ship / ~~An existing ship~~

Type of Ship: * ~~"A"~~ / ~~"B"~~ / ~~"B" with reduced freeboard~~ / Type "B" with increased freeboard

* Delete whatever is inapplicable.

Freeboard from deck line TO CENTER OF RING 11'-0-5/8" *Load Line*

Tropical	N/A feet	N/A	inches (T)	N/A	inches above (S)
Summer	N/A feet	N/A	inches (S)	..	Upper edge of line through center of ring
Winter	N/A feet	N/A	inches (W)	N/A	inches below (S)
Winter North Atlantic	N/A feet	N/A	inches (WNA)	N/A	inches below (S)

Note: Freeboards and load lines which are not applicable need not be entered on the certificate.

Allowance for fresh water for all freeboards N/A inches.

Note: All measurements are to upper edge of the respective horizontal lines.

The upper edge of the deck line from which these freeboards are measured is

OPPOSITE TOP OF STEEL UPPER deck at side.

THIS CERTIFICATE IS VALID ONLY SO LONG AS THE OPERATING RESTRICTIONS IN THE UNIT'S STABILITY LETTER ISSUED BY THE COAST GUARD MARINE SAFETY CENTER AND DATED MAY 9, 1991 ARE OBSERVED.

Date of initial or periodical survey 31 OCTOBER 1990

THIS IS TO CERTIFY that this ship has been surveyed and that the freeboards have been assigned and load lines shown above have been marked in accordance with the International Convention on Load Lines, 1966.

This Certificate is valid until 31 OCTOBER 1995 **, subject to annual surveys in accordance with Article 14 (1) (c) of the Convention, and endorsement thereof on the reverse side of the Certificate.

**At the expiration of this certificate, applicable reissuance should be obtained in accordance with the Load Line Regulations.

Issued at HOUSTON, TEXAS 11 OCTOBER 1991

The undersigned declares that he is duly authorized by the said Government to issue this Certificate.

J. A. [illegible] (signature)

[illegible] MANAGER
ABS AMERICAS

American Bureau of Shipping

LL-9-A Rev. [illegible]

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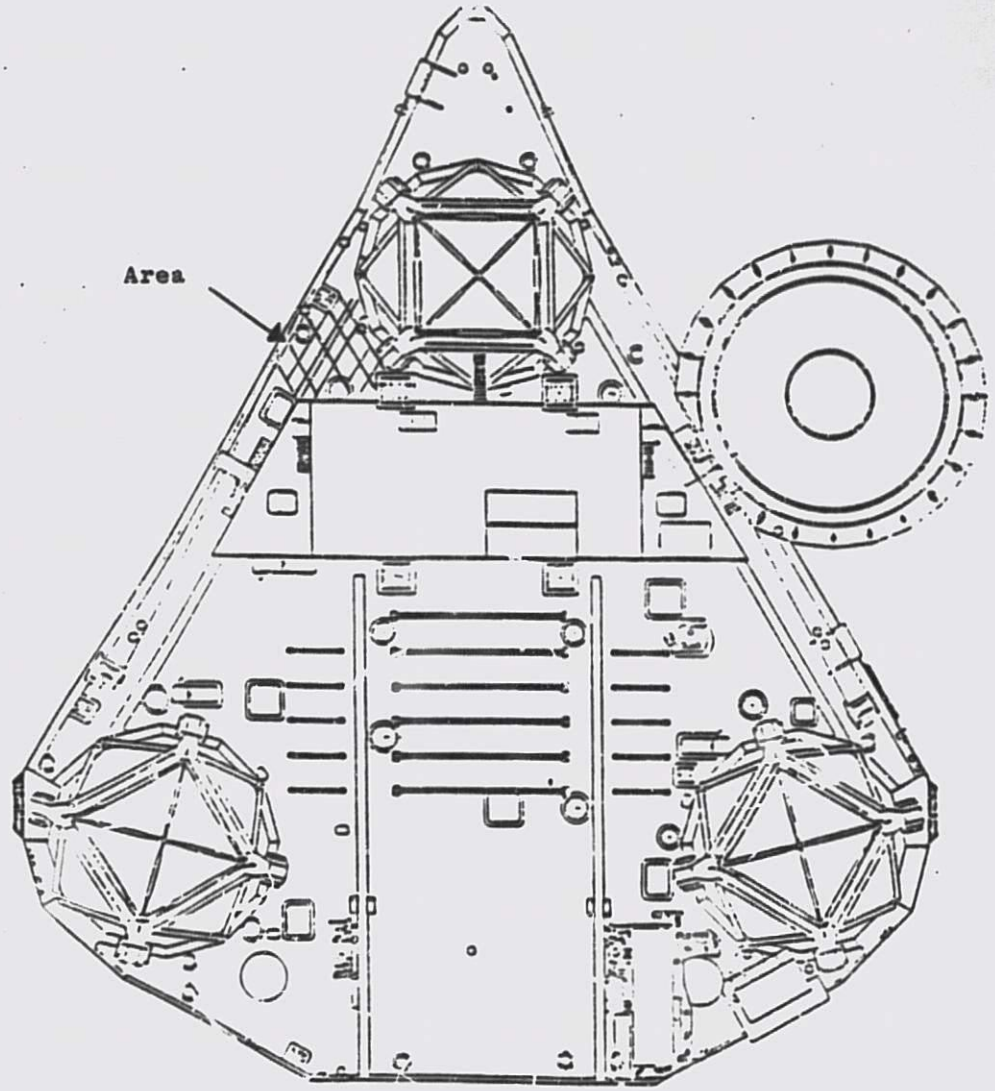
MAIN DECK LAYOUT



ROWAN PARIS

SAFE WELDING & BURNING AREA

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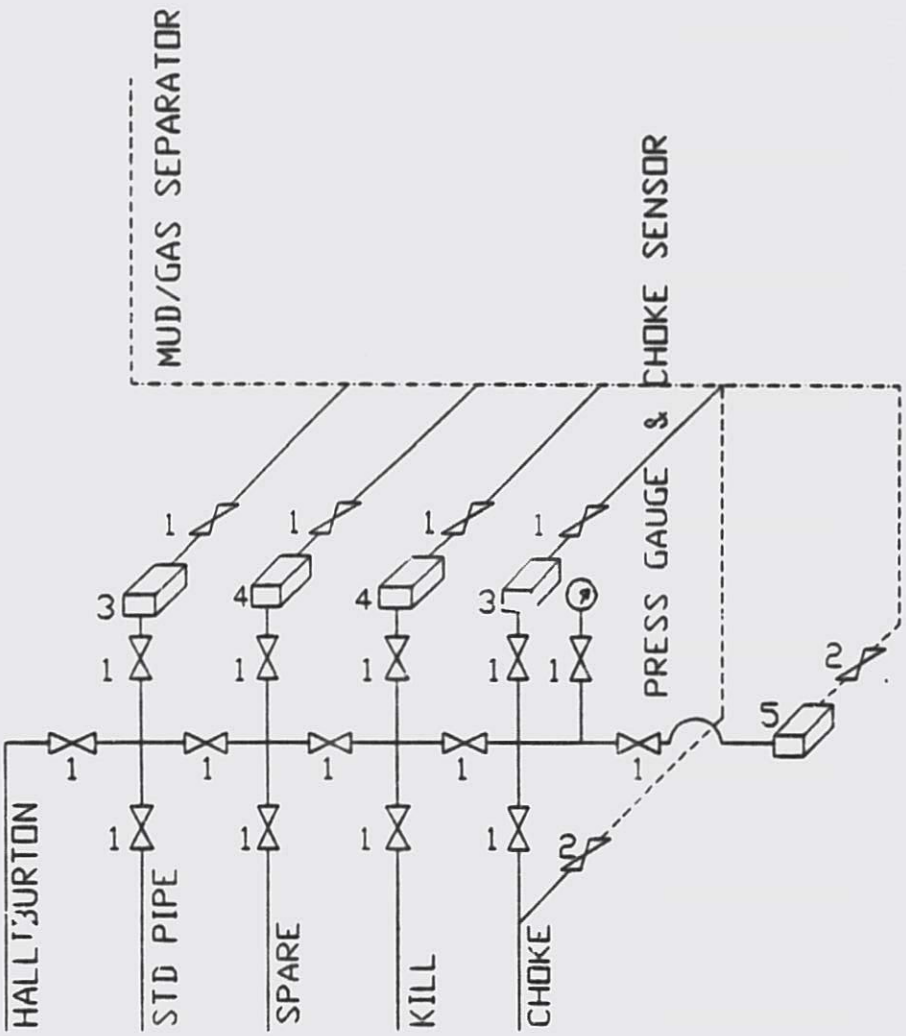
ROWAN PARIS RIG #023
CHOKE MANIFOLD



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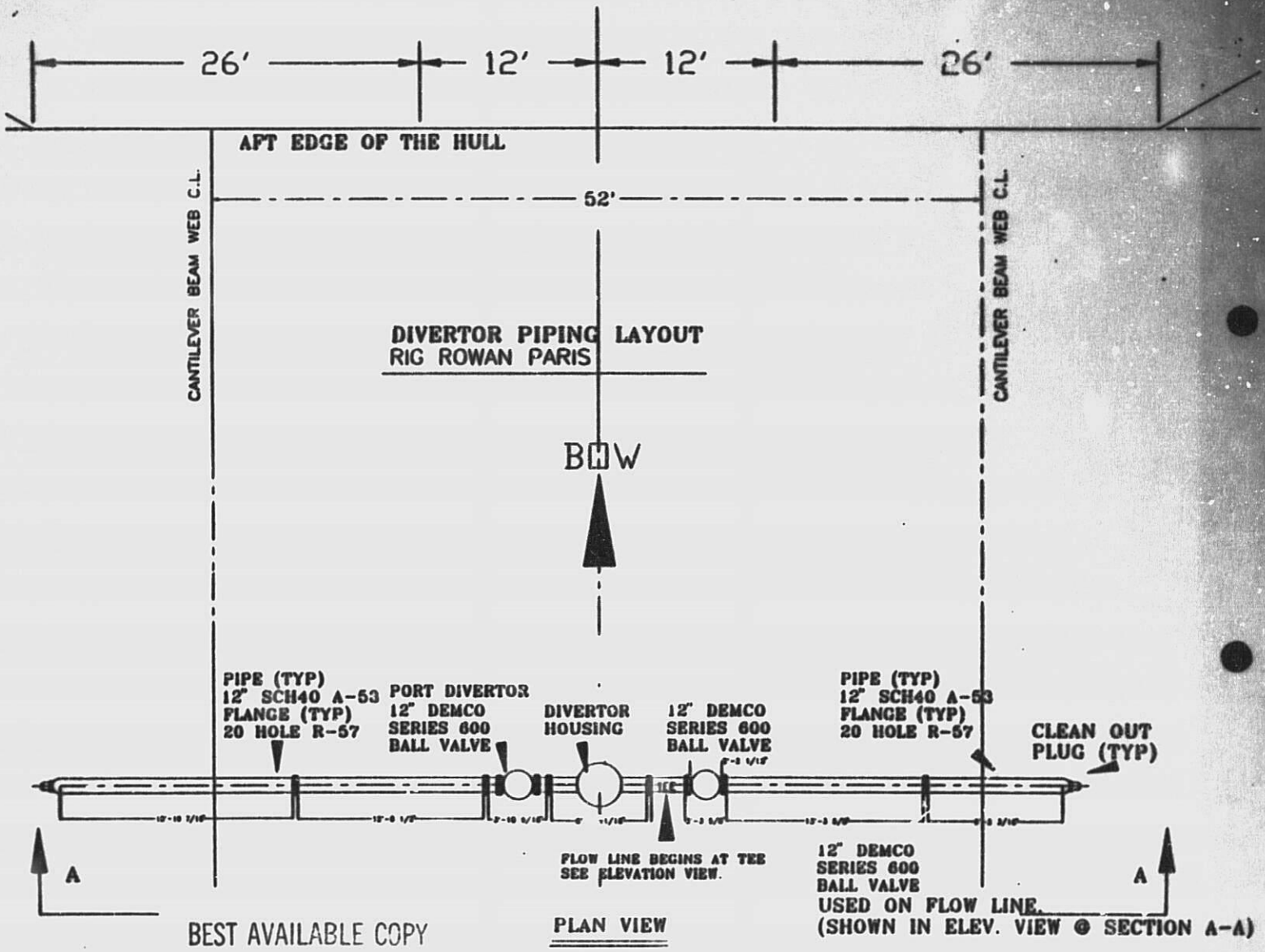

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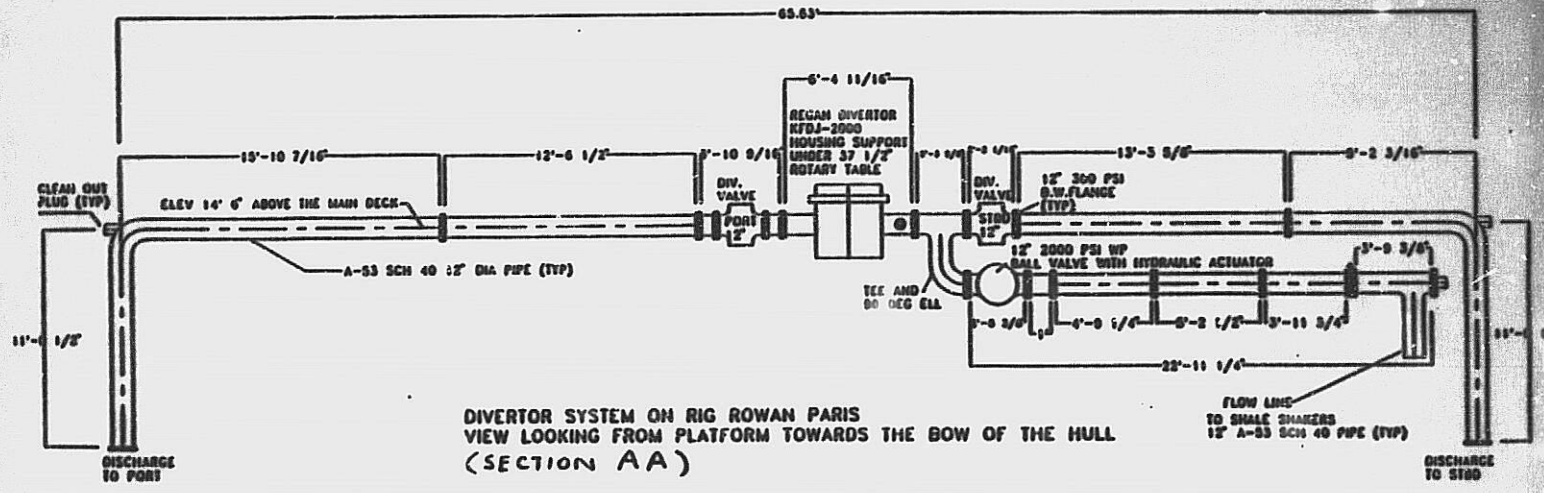
PLAN VIEW



DIVERTOR SYSTEM ON RIG ROWAN PARIS
VIEW LOOKING FROM PLATFORM TOWARDS THE BOW OF THE HULL
(SECTION AA)

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DIVERTOR PIPING (BILL OF MATERIALS) - ROWAN PARIS 023
(Refer Attached Sketches For Items Identification)

ITEM NO.	DESCRIPTION	SIZE	SCHEDULE OR RATING	LENGTH
1A	BLACK WELD PIPE	12 "	XS(A-120)	15"
2	ELL 90° LONG RADIUS	12"	XS(A106 GR.B)	—
3	ELL 45° LONG RADIUS	12"	XS	—
4	TEE	12"	XS	—
5	CAP	12"	XS	—
6	AIR ACTUATOR	12"	(BETTIS CBL-725 No 11 WITH STAINLESS STEEL SHAFT)	
7	FLANCE	12"	150#	A 181 CLASS I
8	CROSSOVER SPOOL FOR TRANSITION TO 150# STD. FLANCE			—
9	MISSION WAFER BODY WITH BETTIS AIR ACTUATOR	12"	150#	—
10	COMERON BALL VALVE WITH LADEEN HYDRAULIC ACTUATOR	12"	2000#	—
1B	BLACK WELD PIPE	12"	XS(A120)	7'
1C	" "	12"	XS(A120)	9'
1D	" "	12"	"	32'
1E	" "	12"	"	50'
1F	" "	12"	"	13'
1G	" "	12"	"	32'
1H	" "	12"	"	9'
1I	" "	12"	"	VARIABLE
1J	" "	12"	"	10'
1K	" "	12"	"	0'-10' VARIABLE
1L	" "	12"	"	20'
1M	" "	12"	"	(FLOWLINE TO MUD TROUG
11	GATES HOSE REINFORCED RUBBER	12"	150 PSI TEST	7'

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BLOWOUT PREVENTER STACK

WITH A

REGAN DIVERTER

ITEM	DESCRIPTION
1	REGAN DIVERTER - Type KFDJ-2000, nom. 27-1/2", 37-1/2" R.T. one 12", 2000 psi flanged flow line outlet, one 4", 2000 psi female connection to choke and kill manifold; one 4", 2000 psi inlet to low pressure fillup line.
2	REGAN SPACER SPOOL - 27-1/2" I.D.
3	OVERSHOT PACKER - 30" Regan BT-4.
4	RISER MANDREL - 24" O.D. x 24" I.D.
5	13-5/8" HYDRIL, ANNULAR BOP - Type "GK", 5000 psi with a 5000 psi 6BX top connection and 10,000 psi 6BX bottom connection, H_2S trimmed
6	13-5/8" CAMERON DOUBLE BOP - Type "U", 10,000 psi WP, H_2S trimmed.
7	13-5/8" CAMERON SINGLE BOP - Type "U", 10,000 psi WP, H_2S trimmed.
8	4-1/16" MANUAL GATE VALVE - Cameron Type "F", 10,000 psi, H_2S trimmed.
9	4-1/16" REMOTE HYDRAULIC VALVE - Cameron Type "F", 10,000 psi, H_2S trimmed.
10	3" 10,000# CHOKE LINE - from Choke Manifold, H_2S service.
11	2-1/16" MANUAL GATE VALVE - Cameron Type "F", 10,000 psi, H_2S trimmed.
12	2-1/16" CHECK VALVE - Cameron Type "R", 10,000 psi.
13	3" KILL LINE - from Choke Manifold, H_2S service.

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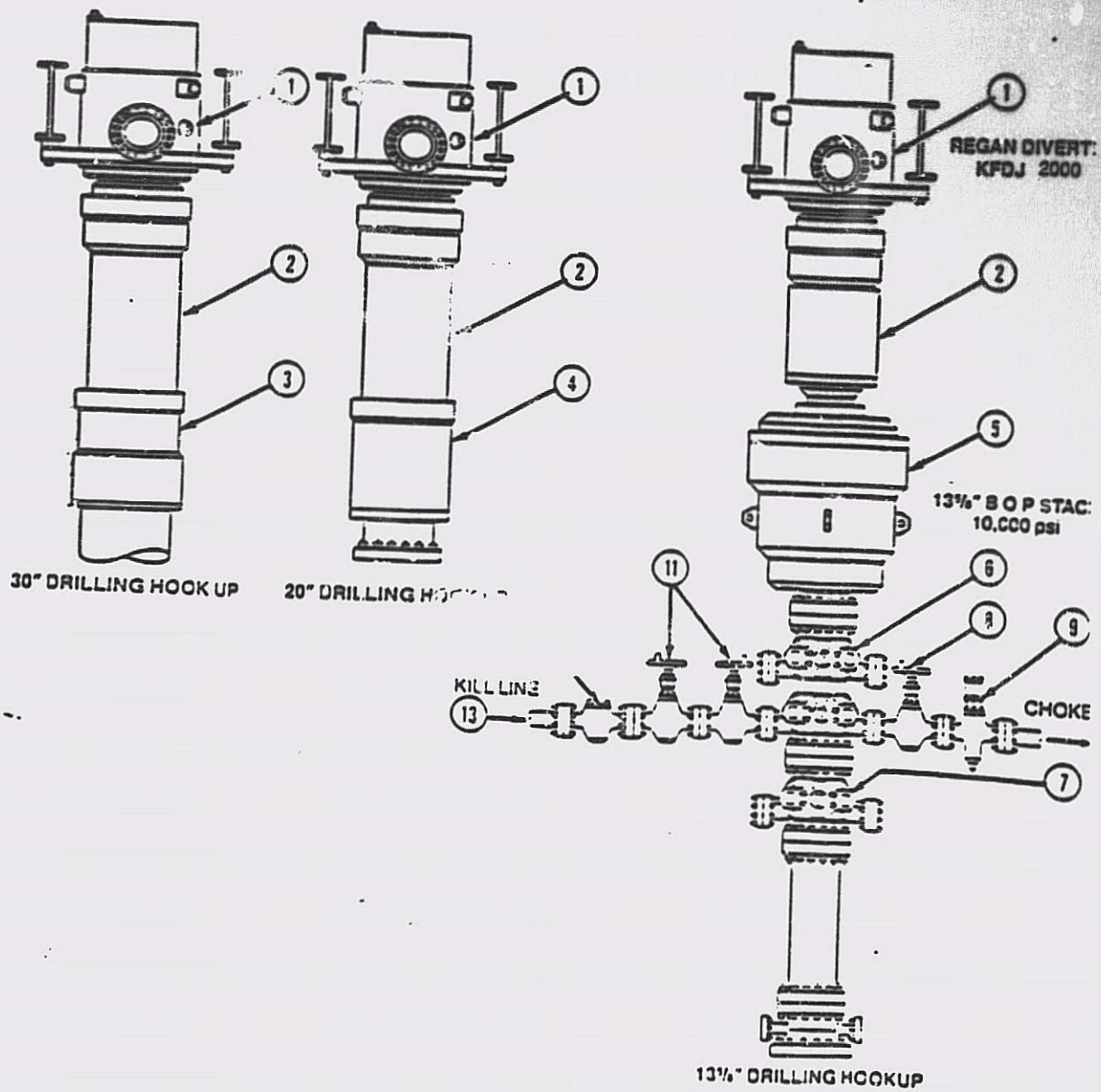
BLOWOUT PREVENTER STACK WITH A REGAN DIVERTER



Refer to following page for description of individual items of this assembly.

Refer to following page for diverter line routing.

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DIVERTER SYSTEM

TYPE KFDJ 2,000 PSI

OPERATING INSTRUCTIONS

1. After conductor pipe has been installed, cut off at proper level.

2. Pick up overshot spool, Nom. 32" with Nom. 30" packer attached and run through rotary table. Use 32" handling clamp.

3. Install J tool in 10" insert, drop safety latch in slot (left hand J).

4. Install insert into diverter (right hand J).

5. Hook up hydraulic line to locking pin and lock insert in place.

6. Pick up diverter and make up on spool.

7. Lower assembly until diverter is landed in support housing.

8. Lock diverter into housing.

9. Install manifold block on diverter.

10. Run all tests on diverter with 10" insert in place and running tool installed. Place 750 psi hydraulic pressure to close diverter when hooked up to 20" or 13-3/8".

    CAUTION: DO NOT APPLY HYDRAULIC PRESSURE TO DIVERTER PACKER WITHOUT INSERT AND PIPE INSTALLED.

11. Hook hydraulic pressure to packer on top of conductor pipe and pressure to 600 psi.

12. Pressure up flowline seals to 100 to 300 psi.

13. Unlock insert and remove.

14. Proceed with drilling program.

    NOTE: Use 10" I.D. insert for all drilling operations.
    Use 15" I.D. insert when running 13-3/8" casing.
    Use 21¼" I.D. insert when running 20" casing.

    CAUTION: LIMIT CLOSING PRESSURE BELOW COLLAPSE OF CASING BEING RUN.

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DIVERTER SYSTEM

TYPE KFDJ 2,000 PSI

OPERATING INSTRUCTIONS

15. When handling well kick, with insert in place, close diverter with 750 psi hydraulic pressure.

16. If well bore pressure builds up, it may be necessary to increase hydraulic pressure to pack off insert. DO NOT EXCEED 2,500 PSI HYDRAULIC PRESSURE.

NOTE: For best operation, use a diverter closing unit equipped so that the following functions become self energized:

1. Diverter Packer
2. Flowline Seals
3. Overshot Packer Seal

The recommended setting pressures are placed on the above seals and self energizing feature traps the pressure behind the seals and as well bore pressure increases, the seal pressure increases accordingly. The self energizing feature eliminates continuous monitoring and manipulation of the seal pressures.

17. When drilling out of 20" or 13-3/8" casing, follow the same procedure using proper spacer spools.

OPERATION OF VALVES

1. Preselect the direction the operator and Rowan toolpusher decide to divert on the control panel.
2. The flo line ball valve in "normally" open in drilling operation.
3. The port and starboard diverter lines are "normally" closed.
4. When the driller closes the flo line ball valve, the "preselected" ball valve will open and allow the system to divert either port or starboard.

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DIVERTER

TYPE KFDJ 2,000 PSI

MAINTENANCE INSTRUCTIONS

DISASSEMBLY

Match mark all parts before disassembly

1. Stand diverter up, remove cap screws holding seal retaining ring to bottom of middle spool.
2. Pick up diverter and remove seal.
3. Remove cap screws holding middle spool to packer housing.
4. Pick up diverter and remove seal.
5. Remove cap screws and top flange from diverter.
6. Remove snap ring, gland and piston.
7. Using lifting eyes, remove main packer.
8. Clean and inspect all parts for damage.

ASSEMBLY

It is recommended to install all new seals, lubricate all mating surfaces and threads with NEVER-SEEZ or equivalent.

1. Install o-rings on packer and install packer in packer housing.
2. Install o-rings in pressure port on housing.
3. Line up top flange and make up cap screws.

   NOTE: Torque cap screws to 800 ft. lbs.
4. Install o-rings and back-up rings on piston and gland.
5. Reassemble locking piston.
6. Pick diverter up, install o-rings on pressure port and housing.
7. Install o-rings in seals and install seals on middle spool.

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DIVERTER

TYPE KFDJ 2,000 PSI

MAINTENANCE INSTRUCTIONS

ASSEMBLY (CONT.)

8. Set diverter on middle spool, make sure pressure ports are in line.

9. Install cap screws, make up.

   NOTE: Torque cap screws to 500 ft. lbs.

10. Pick up diverter, install o-ring on bottom of middle spool, install o-rings and lower seal and set on seal retainer.

11. Make up cap screws, torque to 500 ft. lbs.

12. Install 10" insert in diverter with handling tool installed.

13. Pressure test main packer to 2,000 psi.

14. Pressure test locking cylinder to 1,500 psi.

15. Diverter is now ready for service.

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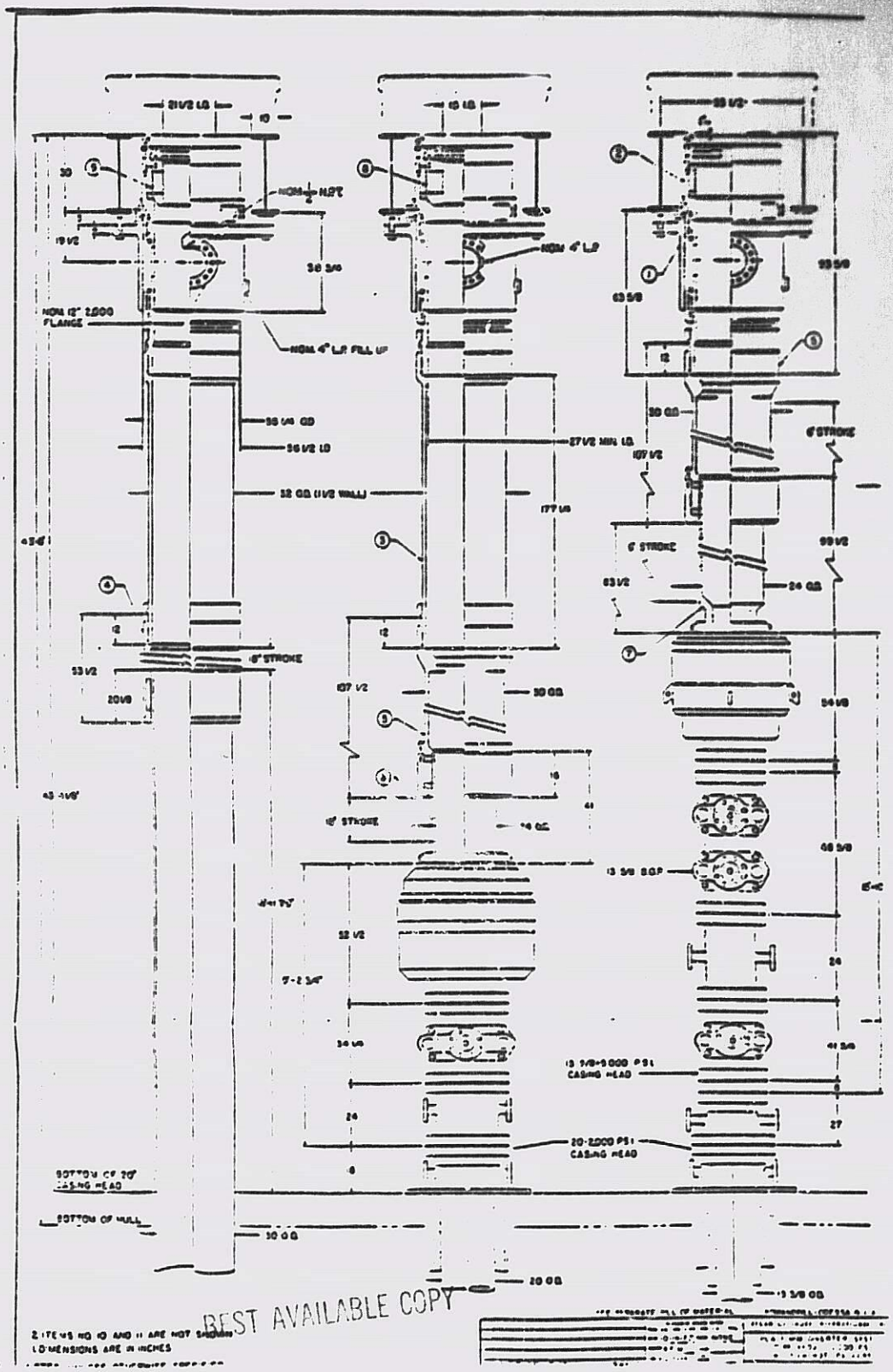

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2. ITEMS NO 10 AND 11 ARE NOT SHOWN
DIMENSIONS ARE IN INCHES

FIRE AND ABANDON PLATFORM BILL

ROWAN INTERNATIONAL, INC.

ROWAN- PARIS

FIRE SIGNAL

INTERMITTENT RINGING OF THE GENERAL ALARM SYSTEM FOR AT LEAST 15 SECONDS

ALL CLEAR SIGNAL

(End of Drill)

THREE SHORT BLASTS OF GENERAL ALARM SYSTEM

ABANDON PLATFORM SIGNAL

CONTINUOUS RINGING OF THE GENERAL ALARM SYSTEM SAME SIGNAL ON FOGHORN

FIRE BILL

[illegible]	[illegible]	[illegible]
[illegible]	CONTROL ROOM	[illegible]
[illegible]	AT FIRE SCENE	[illegible]
[illegible]	RIG FLOOR	[illegible]
[illegible]	FIRE STA. #[illegible]	[illegible]
[illegible]	FIRE STA. #[illegible]	[illegible]
[illegible]	FIRE STA. #[illegible]	[illegible]
[illegible]	FIRE STA. #[illegible]	[illegible]
[illegible]	PUMP ROOM	[illegible]
[illegible]	FIRE TEAM #[illegible]	[illegible]
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[illegible]	FIRE TEAM #[illegible]	[illegible]
[illegible]	FIRE TEAM #[illegible]	[illegible]
[illegible]	FIRE TEAM #[illegible]	[illegible]
[illegible]	FIRE TEAM #[illegible]	[illegible]
[illegible]	PUMP ROOM	[illegible]
[illegible]	CRANE	[illegible]
[illegible]	FIRE STA. #[illegible]	[illegible]
[illegible]	FIRE STA. #[illegible]	[illegible]
[illegible]	FIRE STA. #7	[illegible]
[illegible]	FIRE STA. #[illegible]	[illegible]
[illegible]	PUMP ROOM	[illegible]
[illegible]	AT SCENE OF FIRE	[illegible]
[illegible]	GALLEY	[illegible]
[illegible]	FIRE STA. #4	[illegible]
[illegible]	FIRE STA. #5	[illegible]
[illegible]	QUARTERS	[illegible]
[illegible]	CONTROL HOUSE	[illegible]
[illegible]	RADIO ROOM	[illegible]
[illegible]	STAND-BY EQUIPMENT	[illegible]
[illegible]	RECREATION ROOM	[illegible]

When the Fire Signal is sounded, each person will proceed as quickly as possible to his station, man the assigned Fire Equipment and extinguish the fire.

If the fire is not located in your area, take the assigned portable fire equipment and report to the scene of the fire.

[illegible]

These drills are in compliance with the U.S. Coast Guard [illegible]

ABANDON PLATFORM BILL

[illegible]	[illegible]	[illegible]
[illegible]	LIFEBOAT #[illegible]	IN CHARGE
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	IN CHARGE
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	
[illegible]	LIFEBOAT #[illegible]	

All persons shall familiarize themselves with the locations and duties of their Emergency Stations immediately upon reporting aboard.

All persons will be required to wear a life preserver when reporting to Emergency Stations.

Barge Engineer [illegible] insure that temporary personnel are instructed in these emergency procedures.

Rig Superintendents are to provide specific instructions as necessary to implement the provisions of this Bill.

Rig Superintendents are to keep this Bill up to date and modify the provisions as necessary when circumstances dictate.

When abandoning a rig due to a blowout the rig is to be abandoned in accordance with Operators posted instructions.

During an abandon situation:

a. Close all Watertight doors.
b. Secure all engines.
c. Send out Distress radio traffic as directed by person in charge.
d. Lifeboat and capsule will not be lowered away until the Order to Abandon is given by the person in charge.

Person Discovering Fire Will Immediately Sound General Alarm

Drills Will Be Conducted As If Actual Emergency Existed

NOTES:

In The Event of ABANDON SHIP, When Lifeboat/Liferaft Assignments Can Not Be Carried Out In Accordance With The Directions In This Station Bill, Rig Superintendent Will Make Reassignments.

AREA DIAGRAM OF Appointed Stations

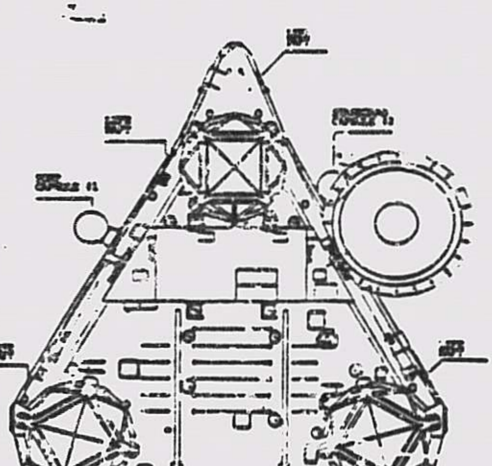
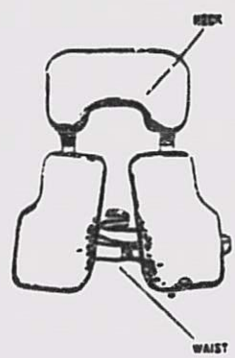


DIAGRAM On Use and Wearing of Life Perserver

TYPE I PERSONAL FLOTATION DEVICE

1. THE CHEST STRAP BUCKLE IS TO BE CLIPPED OR SNAPPED SHUT, AND STRAP SHOULD BE CINCHED UP SECURELY.
2. WHEN THIS LIFE PRESERVER IS WORN PROPERLY, IT WILL TURN AN UNCONSCIOUS WEARER FROM A FACE-DOWN POSITION ONTO HIS BACK AND INTO A FACE-UP POSITION.



Signatures of Rig Superintendents and Barge Engineers

____

____

____

____

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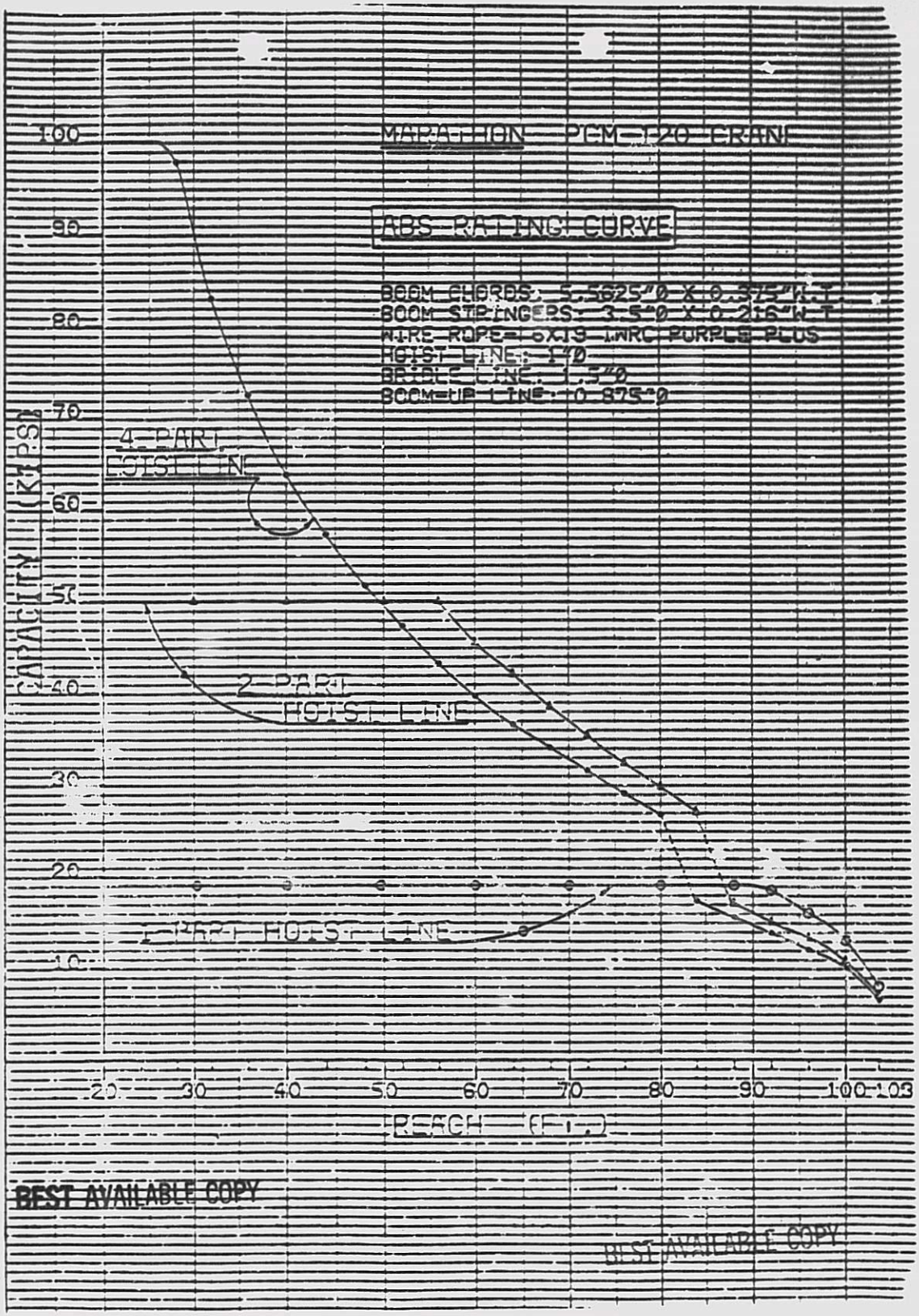
MARATHON PCM-120 CRANE
ABS RATING CURVE
BOOM CHORDS: 5.5625"Ø X 0.375"W.T.
BOOM STRINGERS: 3.5"Ø X 0.216"W.T.
WIRE ROPE: 6X19 IWRC PURPLE PLUS
HOIST LINE: 1"Ø
BRIDLE LINE: 1.5"Ø
BOOM-UP LINE: 0.875"Ø
CAPACITY (KIPS)
100
90
80
70
60
50
40
30
20
10
4 PART HOIST LINE
2 PART HOIST LINE
2 PART HOIST LINE
20
30
40
50
60
70
80
90
100
103
REACH (FT.)
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DEMCO INCORPORATED
OKLAHOMA CITY
OKLAHOMA

SEWAGE TREATMENT PLANT

MODEL WT- _____ _____ GPD CAPACITY

PART NO. _____ DATE _____

NSF STD. NO. 23

U.S. COAST GUARD TYPE II
MARINE SANITATION DEVICE
CERTIFICATION NUMBER
159.15/1029/ /11

FOR USE ON
INSPECTED NON-INSPECTED
VESSEL

INSTALLATION INSTRUCTIONS

1. Connect sewage line to influent flange (1500 GF) on tank.
2. Connect discharge line to effluent flange for disposal.
3. Connect vent line to tank vent flange.
4. Connect electrical power supply to control enclosure:
   (A) 230 or 460 volt, 3 phase, 60 cycle, for plants with blower. See Wiring Diagram for proper voltage.
   (B) 115 volt, single phase, 60 cycle, for plants without blower.
5. Fill enzyme feeder reservoir with DEMCO #10091 Bacteria-Enzyme Concentrate and replace cap.
6. Fill #20 tube to chlorinator with DEMCO #5900-003 Dry Chlorine and replace cap.
7. Close all drain valves.
8. Open all valves on air distribution lines, valve handles parallel to pipe, in first two compartments only.
9. Open main power switch to starter and press "START" button to operate air blower. Check blower for proper rotation.
10. Fill first three compartments with water to full operating capacity.
11. Plants with Blower -
    (A) Close air distribution valves in first two compartments until fluid has a gentle roll without any fluid splashed out of the tank.

    Plants without Blower -
    (B) Connect air supply to pressure regulator. Close air distribution valves in first two compartments until fluid has a gentle roll without any fluid splashed out of the tank. Adjust pressure regulator to 4 psi.
12. Adjust chlorine 1/2" below water level in third compartment. Open air valve only enough to create constant motion in chlorer.
13. Regulate amount valve on air lift line so that approximately 40% of the average influent rate is returned from the third compartment to the first compartment. To determine the average influent rate, divide the tank rated capacity, in GPD, by 1440 to obtain flow in GPM. Place a one-gallon container where the air lift line empties into the first compartment and time the return. Adjust air valve for proper return rate.
14. Repeat No. (11), (12), (13) until you obtain the proper flow rate from the air lift line, operation in the first two compartments, return from the chlorer and pressure regulator to set at 4 psi.
15. Turn enzyme feeder to "On" position. Manually turn timer clock to activate enzyme feeder. Red light will be on while feeder is running; green light will be on while feeder is not running. Enzyme feeder should be activated at least four times to fill auger and dispense proper amount of enzyme. Feed timer is factory set to deliver three-fourths ounce of dry bacteria-enzyme every 12 hours. Feed timer may be changed from two dumps per day to any multiple of two, such as 4, 6, 8, etc. To increase weight to four dumps per day, open enclosure cover and depress pins for each alternating six hour period; i.e., the first six hours will be depressed, the second six hours will be raised, the third six hours will be depressed, the fourth six hours will be raised. Each cam adjust from the timer, either raised or depressed pins, causes the feeder to rotate 180° and deliver three-fourths ounce of dry bacteria to the plant. After adjustment, replace cover and tighten bolts.

NOTE:

(1) Any detergent and cleaning chemicals flowing into this plant should be of bio-degradable type only.

(2) If galleys are connected to plant, it is required that food grinders and grease traps be used in the galley.

(3) This plant will perform and operate in a suitable manner through a maximum angle of 30° pitch and roll either side of vertical.

MAINTENANCE INSTRUCTIONS

EVERY 7 DAYS -

1. Refill reservoir of bac-zyme feeder. (If reservoir is full after 7 days of operation, see trouble-shooting instructions).
2. Refill chlorinator with chlorine tablets. Only one tube needs to be filled to provide adequate chlorination for plants up to 10,000 GPD.
3. Check fluid level in all compartments. Fluid level should be approximately one-inches below the top of the baffle.
4. Remove any objects floating in the 2nd and 3rd chambers to prevent plugging the chlorinator.
5. Check 1st and 2nd chambers for proper aeration. Fluid should have a gentle roll for proper operation.
6. Check solids return line for proper aeration.
7. Replace screen lids after tank inspection.

EVERY 60 DAYS -

1. Check receiving basket in first compartment and remove non-degradable materials and objects.
2. Check V-belt on blower and tighten if necessary. (Do not over-tighten).

CAUTION

1. Do not dis-assemble enzyme feeder actuator for any reason. If actuator malfunctions, return it to DEMCO or field warehouse for repair or replacement.
2. Read important notice on safe handling and storage of chlorine in the maintenance manual.

If plant is inoperative for several weeks, drain all compartments and flush with fresh water.

TROUBLE SHOOTING INSTRUCTIONS

EFFECT	CAUSE	REMEDY
Fluid level above baffles.	Weir or chlorinator plugged.	Open drain valve and lower fluid level below weir. Remove the obstruction.
Enzyme feeder reservoir full after 7 days of operation.	Electric power supply off.	Check electrical system for cause and restore electric power to feeder.
	Electric power on but auger does not turn.	Return enzyme feeder to DEMCO for repair or replacement. Hand feed enzyme feeder until feeder is returned.
No movement to fluid.	Inadequate air supply	Check air supply to the tank and adjust air valves, if necessary.
Excessive boiling	Too much air supply	Follow Step 11-B, 12 and 13 of the Start-Up Instructions.
No fluid coming out of solids return line.	Inadequate air supply	Adjust air valve in 3rd compartment.
	Return line clogged.	Remove from tank and clean. Follow step 11-B, 12, 13 for proper adjustments.
Air blower malfunction.	Knocking, excessive temperature, lack of volume.	Refer to manufacturer's maintenance and repair manual.
	Complete loss of air supply to the plant.	Check electrical system and restore power.
		Connect auxiliary air supply line to 1" coupling on either end of the tank. Regulate air pressure to 6-8 psi. Follow Step 11-B, 12 and 13 of the Start-Up Instructions to obtain proper aeration in tank.
		Replace Vee Belt, if broken.
Insufficient chlorine.	Improper loading	Tap on tube
	Chlorine level too low with one tube.	Fill additional feed tube.
Over chlorination	Excessive consumption of chlorine.	Modified tubes are available.

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CONDITION OF APPROVAL:

SUNDRY MUST BE SUBMITTED TO OBTAIN APPROVAL TO RUN 7" CASING.

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UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

To: District Supervisor: New Orleans District, Date: 03/24/92

From: Geological Operations Support Section, GOMR

Subject: Geological Review Purpose: APD Control No.: N-4226

OCS G 8724 Area: South Timbalier Block(s): 228
Operator: UMC Petroleum Rig: MARINE 301 Elev.: 85'-+

WELL:	SFC. LOC:	BHL:	TVD:	MD:	WI
1	100'FNL, 7150'FWL of ST 0228	100'FNL, 7150'FWL of ST 0228	9500'	950'	2

ANTICIPATED DEPTHS AND THICKNESS OF:
1. Potential Oil and/or Gas Bearing Horizons and Shallow Hazards:
   a. Horizons: EXPLORATORY FOR PLIOCENE SANDS

   b. Hazards: NONE KNOWN - EXPLORATORY
2. Fresh Water Sands: NONE
3. Domal Material (Cap Rock, False Cap Rock, Salt, Shale):
   NONE
4. Possible Lost Circulation Zones: NONE KNOWN
5. Possible Abnormal Pressure Zones: ABOUT 7500'
6. Horizons which may need Special Mud, Casing or Cementing Program (incl. H2S Depth/Class):
   NONE; H2S KNOWN TO BE ABSENT FROM NEARBY WELLS

Distance from nearest well or platform:
   1/2 MILE
Relationship of surface location to geological structures:
   ON FAULT CLOSURE
Remarks:
   Casing Elimination: NA

   Other: NONE

Additional Data Needed: NONE

Data Reviewed: APPLICATION, REVIEW

Recommendation (including cautions, if any):
   APPROVAL

Geologist: Floyd. T. Bryan

Form MMS-340 (Feb. 1986)

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UNITED STATES DEPARTMENT OF INTERIOR
MINERALS MANAGEMENT SERVICE

To: District Supervisor New Orleans District Date: 03/24/92
From: Geophysicist, GOM OCS Region

Subject: Geophysical Review Purpose: APD Control Number: APD

OCS- G 8724 Area: South Timbalier Block: 228 Operator: MOBIL OIL EXPL. & PR
Well Name: Well 1
Depth:- 9500 feet TVD / 9500 feet MD
Surface Location: 100' FNL and 7150' FWL of South Timbalier Block 0228, Lease OCS G08724
Bottom Hole Loc.: 100' FNL and 7150' FWL of South Timbalier Block 0228, Lease OCS G 8724

SHALLOW HAZARDS EVALUATION

High Resolution Survey Report: UOHN CHANCE
HRG Data: Echo[*] Mag[*] Sss[*] Sbp[*] Spkr[*] CDP[*] Other[ ]
Proximity: 150'E Line No. 8 Shot Pt. No. 4.5 Line Spacing: 1000'

Water depth: WATER DEPTH IS ABOUT 202' SEAFLOOR IS SLOPINC SE AT 7'

UPPER MOST SEDEMENTS ARE HIGHLY SATURATED WITH WATER OR BIOGENIC

POSSIBLE SHALLOW GAS AT 1110' SS AND DEFINITE PRESSURED GAS AT 2900

SHALLOW FAULT ENCOUNTER AT 816' SS THIS FAULT IS CONNECTED DOWNWARD WITH THE 2900' PRESSURED GAS SAND BUT THERE ARE NO INDICATION THAT THIS FAULT HAD CHARGED THE UPPER SAND LAYERS.
OPERATOR WILL SUBMIT A CASING PROGRAM ALONG WITH THIS PLAN TO SET THE CONDUCTOR PIPE ABOVE THE SHALLOW FAULT. OK TO SET ABOVE 1100 SHALLOW GAS

DEEP SEISMIC EVALUATION

Seismic Data: TGS 2-D CONVENTIONAL SEISMIC
Proximity: 600' Line No. AVAIL. Shot Pt. REPRES. Line Spacing: 2000'

STRUCTURE HIGH ALONG FAULT PLANE

BRT SPOT AT 5339' SS.
NO APPARENT DEEP FAULT ENCOUNTER THE BOR HOLES.

NO DOMAL MATTERIAL
ABNORMAL PRESSURE ZONE EXPECTED AT 7905' SS FROM INTERVAL VEL ..TY WELL CONTROL.

Recommendation: APPROVAL IS RECOMMENDED WITH EXTRA PRECAUTION AT SHALLOW GAS AND FAULT LOCATIONS.

Geophysicist: A. Ahmed

Form MMS-339 (Feb. 1986)

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APD CHECKLIST

04/10/92

Operator: UMC vs. Designated Operator: MOBIL OIL EXPL. & PROD. SE INC
Lease: OCS- G08724 Area/Block: ST 0228 Well 1
POE/DOCD Approval Date: 03/04/92 Platform Approval Date: / / ← FT WORTH →
Geophysical Review Cautions: SG@1110,2950. FAULT @ 816
Geophysical Recommendation: APPROVAL
Geological Review Cautions: NONE
Geological Recommendation: APPROVAL
Rig Name: ROWAN PARIS Rig Type: JU

A. CASING PROGRAM

1. ✓ Size
2. ✓ Weight
3. ✓ Grade
4. ✓ Type of connection
5. ✓ Setting depth
6. n/a Liner lap (100 feet minimum)
7. n/a Liner lap test
8. ASP Calculations
   a. ✓ Drilling phase
   b. ✓ Completion phase
9. ✓ BURST pressure ASP
   a. Cnductr Csg
   b. 3130 ✓ Srfc Csng 1746

10. Casg. TEST pressure ASP 70% MTYP/TEST
    a. 250 ✓ Cnductr Csg 0
    b. 2000 ✓ Srfc Csng 2246 2146
    c.
11. ✓ Safety Factors — Assumptions for Safety Factors
    a. ✓ Burst — a. ✓ Burst
    b. ✓ Collapse — b. ✓ Collapse
    c. ✓ Tension — c. Tension

B. CEMENTING PROGRAM

✓ Conductor casing (cement back to mud line)
804 cuft. (MMS) vs. 1130 cuft.

✓ Surface casing (cement 200 feet inside conductor)
817 cuft. (MMS) vs. 2255 cuft.

C. FORMATION INTEGRITY TEST

1. ✓ Cnductr Csg ppg (FIT) vs. ppg (MW)
2. ✓ Srfc Csng ..... 13.5 ppg (FIT) vs. 12.5 ppg (MW)
3.

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D. MUD PROGRAM

1. _____ Mu[illegible]ist
   a. _____ No H-phenols
   b. _____ No oil-based nitrites
2. _____ Minimum mud requirement
   a. _____ 1000 sx barite
   b. _____ 200 sx gel
3. _____ Mud disposal stat[illegible]
4. N/A Will oil-based mud be used?
   _____ Advise operator of requirement for nitrite rubbers

E. PLAT

1. _____ Drawn to scale of 2000 feet to the inch
2. _____ Show surface and subsurface location of well to be drilled
3. _____ Show surface and subsurface location of previously-drilled wells
4. _____ Locations indicated in feet from the block line
5. N/A BHL 500 feet from lease line?
   _____ Producing zone 500 feet from property line?

F. RIG INFORMATION

1. _____ If already on file proceed to "G"
2. _____ Mobile units
   a. _____ ABS or other appropriate classification society documentation of operational limitations (load line certificate)
   b. _____ Either USCG Certificate of Inspection or letter of compliance
   c. _____ Identification of the maximum environmental and operational conditions the rig is designated to withstand
   _____ All units
   _____ Rated capacities of the proposed drilling unit and of major drilling equipment

G. DIVERTER DRAWING

1. _____ Flow [illegible]
2. _____ Elevation
3. _____ Spool outlet [illegible] inch[illegible] shall [illegible] to be 12-inch
4. _____ Diverter lines
   a. _____ Length
   b. _____ Diameter [illegible]
   _____ Bury[illegible] entire[illegible]
   _____ Radius [illegible]
   _____ Are all 90 [illegible] targeted [illegible] [illegible] [illegible]
   _____ [illegible]

21/4
21/4

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H. BOP STACK INFORMATION

1. ____✓__ Working pr[illegible]ure vs. ASP

a. Casing

	Annular/Ram W.P.	ASP
i. ________ Cndctr Csg (not required- not subsea tree)		
ii. ______✓ Srfc Csng	5000/10000	1746

2. ____✓ Well control procedure for annular where ASP > WP annular preventer
3. ______ Description of BOP accumulator system or other type of closing system proposed for use (activation)
4. ______✓ Schematic of BOP stack
   a. ______✓ Inside diameter of BOP stack (13 5/8 -inch BOP ID vs. 7 -inch casing OD)
   b. ______✓ Does stack have at least one annular preventer?
   c. ______ Does stack have at least two pipe rams?
   d. ___NA__ If using tapered drillstring, does the stack have two sets of pipe rams capable of sealing around the larger size drillstring and one set of pipe rams capable of sealing around the smaller drillstring or a variable bore pipe ram in lieu of one of the larger pipe rams?
   e. ______ Does the stack have one blind ram for a surface stack?
   f. _n/a___ Does the stack have one blind/shear ram for subsea stack?
   g. ______✓ Kill line with a remote controlled valve or two manual valves
   h. ______✓ Fillup line above uppermost preventer
   i. ______✓ Choke line with remote controlled valve
5. ______✓ BOP test pressures

Casing	Test Pressures Annular/Ram	vs. ASP+500
i. ________ Cndctr Csg (no subsea tree)		
ii. ______✓ Srf Csng	3500/5000	[illegible] 2246

I. OTHER

1. ______✓ Pore pressure and weight [illegible] gradient [illegible]
2. ______✓ [illegible] program
3. ______✓ [illegible] program
4. ______✓ [illegible] protection [illegible]
5. ___N/A__ Directional [illegible]
6. ___n/a__ Floater [illegible]
7. ___N/A__ H2S [illegible]

J. PUBLIC INFORMATION COPY

1. ______✓ Do they have [illegible]
   [illegible]

K. REMARKS: ~~Stack Arrangement~~

~~TO CW~~ DIVERTER LINES ARE THREADED

TEST 10 3/4 TO 2100 psi.

REVIEWER: Herlot

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