

Cash Draw  
500 Staff

Jeanne Shrub

\$20.00

Robert Kerr

\$25.00

COMMEN. M. EAPEN.

\$25.00

M. H. Houston

~~20.00~~

Wirth H. H. H. H.

\$40.00

Raywanda Mises

\$30.00

Wirth H. H. H. H.

\$30.00

George Bailey

10.00

Total  
Pat crew

\$200.00

95.00

\$295.00

295.00

5 IV 78  
 Level in ~~100~~ 31 ~~100~~ 711  
 Dead Sect ~~111~~ 111 1 ~~111~~ 30 111 611 X  
 Stutch 1 ✓ 29 111 411 X  
~~Stutch 2~~ Bird 9 1 wing Pt. ~~28~~ Bird 5 ✓ 211 3111 X X  
~~49~~ Bird 8 ~~111~~ 28 111 211 X  
~~48~~ Stutch 2 from 2 hand 27 111 1111 X X  
 D.S. 6 ✓ 26 111 D.S. 1 ✓  
 49 111 25 111 111 Bird # 30  
 48 111 24 111 111 Dead Sect 11  
 47 111 - SALT WATER W BOD 23 111 111 Tail Burg  
 46 111 - SALT WATER 22 111 111  
 45 111 Bird 4 21 111 111 15 now, 4-5-78  
 44 111 21 111 111  
 43 111 D.S. 3  
 42 111 19 111 X  
 Bird 7 18 111 X  
 41 111 17 111 X  
 40 111 16 111 X  
 D.S. 5 ✓ 15 111  
 39 111 Bird 3 14 111  
 38 111 13 111  
 37 111 12 111 111  
 36 111 11 111  
 35 111 D.S. 2 ✓  
 Bird 6 OK 10 111  
 34 111 9 111  
 33 111 8 111 10 off  
 32 111

25 III 98

20 ~~IIII~~ 8

~~DS #3~~

21 ~~IIII~~ = 6

Bird #4

22 ~~IIII~~ II = 7

23 ~~IIII~~ II = 7

24 IIII = 4

25 ~~IIII~~ I

OVERLAP disconnected small amt. saltwater  
btwn 25 + 26

SOFT

Pin #

24

1-20

23

2-21

22

3

21

4

20

5

19

6

18

7

17

8

16

9

15

10

14

11

13

12

12

13-32

11

10

2110 ft in  
from HEAD of 24  
TAIL of 25

24  
13  
37

607.  
3.26 3.11.0  
14.2  
10

2110

650

12 SOFT

Birds go on

about noon on Tail

Ahead of 7

14

21

28

35

42

you had stretch outson,

416  
328  
328

18  
13  
54  
18

Lat. 20°

Est.

6 knots

2 190 @

- 7.3

2 133

+ 30.9

$$sg = \frac{30.9}{38.2}$$

ch 1 10 RD

3.82 <sup>95</sup> nigsals / RD

ch 3 8.5 RD

4.49 <sup>90</sup> nigsals / RD

ratio. 85

30 IV 28

Bird 1 Remove

1 4 2 1  
2 4 2 11  
3 4 2 11  
4 4 2 11  
5 4 2 11  
6 5 3 111  
7 4 2 11

drag hole

25

26

27

28

6

4

6

4

3 111

1 1

3 111

1 1

Bird 5 ✓

29

30

6

6

3 111

3 111

D.S. #4 cal ✓

Bird 2 7

8 5 3 11  
9 5 3 11  
10 5 3 111

Bird Count

31

32

33

34

35

4

6

6

4

4

1 1

3 111

3 111

11

11

D.S. #2 ✓

11 4 2 11

12 5 3 111

13 5 3 111

14 5 3 111

Bird 3

15 5 3 111

16 5 3 111

17 3 11

18 5 3 111

19 5 3 111

20 5 3 111

D.S. #3

21 6 4 1111

22 5 4 1111

23 6 4 1111

24 4 2 11

Slurched back

39

40

Paton Leak

4

4

4

4

5

11

11

11

11

11

2 11

D.S. #5 cal

41

42

43

44

45

46

47

48

49

4

5

4

4

5

5

5

5

5

11

2 11

11

11

2 11

2 11

2 11

2 11

3

repha

Bird 5

27

27

27

27

27

27

27

27

D.S. #6

37 IIII 4

38 IIII 4

39 IIII 4

100 40 IIII 5

41 IIII 4

42 IIII 5

Bird 7

43 IIII 4

44 IIII 4

45 IIII 5

46 IIII 5

47 IIII 5

48 IIII 5

49 IIII 5

Stretch

~~Stretch~~

Bird 8

Bird 9

lead in - 9

D.S. #6

4/29/20

3485 1400

1312



Wts

Bird 1

D.S. #1

Active 1

2

3

4

5

6

7

Bird 2

Active 8

9

10

D.S. #2

Active 11

12

13

14

Bird 3

Active 15

16

17

18

19

20

D.S. #3

Active 21

22

Bird 4

23

24

7

7

8

6

6

9

6

7

7

6

4

6

6

5

5

3

7

5

8

6

7

6

4

Remove

Active 25

1

6

6

3 III 4

3 III 4

4 III 4

2 II 4

2 II 4

4 III 5

2 II 4

2 II 5

2 II 5

1 I 5

4

1 I 5

1 I 5

5

5

5

3

2 II 5

5

5

3 III 5

6

5

6

4

26

27

28

29

30

31

32

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III

fault in #12 at #34

2 Permutex  
Patches - Bites

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

Bird #1

JUST OUTBOARD OF ACTIVE SECT. #1

Bird

ACTIVE #1 - ~~III~~ II = 7 WEIGHTS

2 ~~III~~ II = 7

3 ~~III~~ IIII = 8

(9-8) 4 ~~III~~ I = 6

5 ~~III~~ I = 6

Low oil

6 ~~III~~ IIII = 9

7 ~~III~~ I = 6

Need low oil

Bird #2

8 ~~III~~ II = 7

9 ~~III~~ II = 7

overly outer end

10 ~~III~~ I = 6

D.S. #2

11 IIII = 4

12 ~~III~~ I = 6

13 ~~III~~ I = 6

14 ~~III~~ = 5

Bird #3

15 ~~III~~ = 5

16 IIII = 4

2 ~~overly outer end~~ 2 shock cut

17 III = 3

18 ~~III~~ II = 7

19 ~~III~~ = 5

20 ~~III~~ IIII = 8

D.S. #3

Chief Sci. Cabin	J. L. Worzel
Forward Starboard	Shaub
2nd aft Port	Houston Griffiths
Forward Port	Eapen Van der Smissen
2nd Forward Port	Pearcy Kerr
Aft Port	Kleinhart Chen Kao

M E M O R A N D U M

Date: 1-31-78

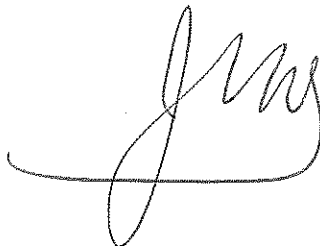
Capt. Otis Murray and Drs. A. B.

To: Ibrahim and R. T. Buffler

From: J. Lamar Worzel, Director

Re: \_\_\_\_\_

Attached are addresses of various people in Mexico who are cooperating in this cruise and a letter from Pemex indicating their cooperation in this cruise in the Gulf of Mexico. In the unlikely event that you are stopped by Mexican authorities (this should not happen since we have been properly authorized through our State Department) these names, addresses and phone numbers should be useful in straightening out the misunderstanding.



# MEXICAN CONNECTIONS

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 Universidad Nacional Autonoma de Mexico (UNAM)  
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 Mexico 20, D.F., Mexico

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 Centro de Ciencias del Mar y Limnologia  
 Universidad Nacional Autonoma de Mexico (UNAM)  
 Apartado Postal 70-305  
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 Adpos. Postal 53-142/53-145  
 Mexico City 17, D.F., Mexico

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ING. ARSENIO NAVARRO  
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 Instituto Mexicano del Petroleo (IMP)  
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ING. GUILLERMO P. SALAS (RITT)  
 Director General  
 Consejo de Recursos Minerales Correspondencia del  
 Director General  
 Avenida Ninos Heroes y Dr. Navarro  
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 -6107  
 -6021  
 home: (905) 564-9629

U.S. EMBASSY IN MEXICO CITY - Sue Jones  
 or Rolf Jonsal

(905) 553-3333

# PETROLEOS MEXICANOS

PRODUCCION, REFINACION Y DISTRIBUCION DE PETROLEO Y SUS DERIVADOS

AV. MARINA NACIONAL N° 222

SUBGERENCIA DE P. I. E. R.

APDOCA 52-142 AL 52-145

CABLE "PENEX"

MARINE SCIENCE INSTITUTE

REC'D DEC 30 1977

GE-2563/877.

Exp. 2-2-1.

MEXICO, D. F., DICIEMBRE 26, 1977.

Sr. C. A. Burk  
Director  
Marine Science Institute  
P.O. Box 7999, University Station  
AUSTIN, TEXAS 78712.

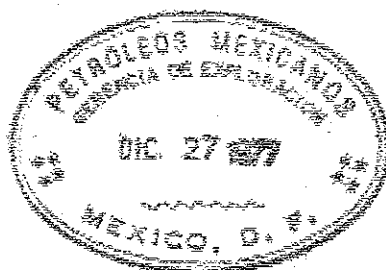
Estimado Sr. Burk.

Durante el mes de Noviembre se recibió su carta reconfirmando su invitación para que personal del Instituto Mexicano del Petróleo o de Petróleos Mexicanos participara en los proyectos que tienen planeado desarrollar en el Océano Pacífico y en el Golfo de México.

A este respecto se agradece la invitación a participar en tan importantes proyectos y se comunica que el interés de Petróleos Mexicanos se canalizará a través del Instituto Mexicano del Petróleo; institución que estará en comunicación con ustedes.

Atentamente,

ING. OCTAVIO MEJIA D.  
GERENTE DE EXPLORACION.



DMU/e.

Translation of letter from Ing. Octavio Mejia D. dated 12-26-77  
to C. A. Burk. Received in this office 12-30-77.

During the month of November we received your letter reconfirming the invitation for personnel of the Instituto Mexicano de Petroleo or Petroleos Mexicanos to participate in the projects which you have planned to set forth in the Pacific Ocean and Gulf of Mexico.

In this respect we thank you for the invitation to participate in such important projects and we advise you that the interest of Petroleos Mexicanos will be channeled through the Instituto Mexico del Petroleo which will be in contact with you.

Translation of letter from Ing. Octavio Mejia D. dated 12-26-77  
to C. A. Burk. Received in this office 12-30-77.

During the month of November we received your letter reconfirming your invitation for the personnel of the IMP and Pemex to participate in the projects you are planning to develop in the Pacific Ocean and the Gulf of Mexico.

With respect, we acknowledge the invitation to participate in these important projects and we communicate the interest of Pemex to "dig a canal through the problem" (cooperate?) through IMP; this Institute (IMP) will be in communication with you.



To: Staff

Date: 7 Mar 78

From: J. Lamar Worzel

Re: IDA GREEN Cruise #28 - Gulf Tectonics III, Leg 2.

Tentatively, the crew for this leg will be as follows:

J. L. Worzel, Chief Scientist  
 Jeanne Shaub  
 Mark Houston  
 Ken Griffiths  
 Oomen Eapen  
 Craig van der Smissen  
 Tom Klienhardt  
 George Percy  
 Robert Kerr  
Chen Kao

We expect to sail on March 21, 1978.

*J. L. Worzel*