

Schlumberger Technology Corporation

200 Gillingham Lane  
Sugar Land, TX 77478

**Schlumberger**

RECEIVED

JUN 26 2007

DNMS

June 25, 2007

United States Nuclear Regulatory Commission  
Region IV – Materials Inspection Branch  
611 Ryan Plaza Drive, Suite 400  
Arlington, Texas 76011

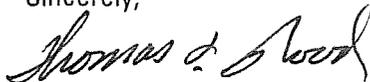
**RE: Source Abandonment for ExxonMobil: OCS-P 0182 HE-27 ST02**

Dear Sir or Madam:

This letter is to confirm the abandonment of irretrievable sources in a well in accordance with Part 39, Section 39.77(d). Information for this abandonment is attached.

If you have any questions or require additional information, please contact me at 281-285-7460.

Sincerely,



Thomas S. Wood  
Deputy Radiation Safety Officer  
Schlumberger Technology Corporation

Source Abandonment – ExxonMobil  
Well: OCS-P 0182 HE-27 ST02

Date of Occurrence: 05/22/2007

Source #1

Identification: 63 GBq (1.7 Ci), Cs 137, Density Source, Serial # A5093  
Manufacturer: AEA Technology, QSA Inc.  
Model: CDC.CY3  
Depth: 14,003'

Source #2

Identification: 592 GBq (16 Ci), Am241Be, Neutron Source, Serial # A2433  
Manufacturer: Gammatron, Inc.  
Model: NSR-F (AN-HP)  
Depth: 13,991'

Well Identification: ExxonMobil  
Well: OCS-P 0182 HE-27 ST02  
Field: Pescado  
API Number: 043 1120 76002

Seal Results: 500' of 13.5 ppg cement mixed with Red Mortar Dye was spotted in the annulus above the tool from 13,950' to 13,450'. Top of tool estimated to be at 13,942'. 5 7/8" 3-tooth mill rock-drill bit was placed on top of the cement at 13,450' and will serve as the mechanical deflection device.

Recovery Attempts: Multiple attempts from 05/19/07 to 05/25/07

Depth of Well: 1411' MD (55° deviation)

Identification: Plaque as required by Part 39 ordered and will be attached to the well.

Reports: No other agency will receive a copy of this report.

Initial Telephone Contact: Mr. Chuck Cain, NRC Region IV on 05/22/07 @ 13:57 CDT.



Notified:  NRC or  State of : NRC Region IV

Name: Mr. Chuck Cain Name: \_\_\_\_\_  
Date: 5/22/07 Date: \_\_\_\_\_  
Time: 13:57 CDT Time: \_\_\_\_\_

## ABANDONMENT

The following is a summary of NRC and/or Agreement States regulations that *must* be followed when abandoning an irretrievable well logging source(s). The specific regulations are found in 10 CFR 39.15 and equivalent regulations in Agreement States.

An *irretrievable well logging source* means any licensed radioactive sealed source that becomes lodged in a well and cannot be retrieved after reasonable efforts have been made to recover the source(s).

1. If a well logging source is irretrievable, the following requirements must be implemented.
  - a) The source(s) must be immobilized and sealed in place with a cement plug. The cement has to be dyed red in Texas as a condition of the Texas Railroad Commission (others occasionally).
  - b) A mechanical deflection device must be set at some point in the well above the cement plug to prevent inadvertent intrusion on the source, unless the cement plug and source(s) are not accessible to any subsequent drilling operations. The mechanical device can be devices such as a whipstock, old drill bit, etc. For LWD, drillpipe and/or collars left on top of the BHA usually are approved as a deflection device.
  - c) A permanent identification plaque, (supplied by your QHSE Manager) made of stainless steel (or brass, bronze and monel), must be mounted at the surface of the well unless the mounting of the plaque is not practical (i.e. subsea completion).
2. The STC RSO (or his designee) will notify the NRC or Agreement State of the abandonment plan developed by/with the client. The NRC or Agreement State must approve the abandonment plan prior to implementation. The federal and/or state oil and gas well permitting agency normally will also require that they approve the abandonment plan. The contact with the well permitting agency is the responsibility of the well owner/client but we should advise him/her of that fact as a courtesy.
3. If any changes must be made to the abandonment plan submitted to the NRC or Agreement State, the STC RSO must be informed so that he/she can get approval of the modification, as appropriate. The actual abandonment must not begin until any abandonment plan or modification to that plan is approved by the appropriate agency.
4. The STC Radiation Safety Officer must file a written report with the NRC or Agreement State within 30 days after the abandonment. The facility management should file a written report within 10 days to the STC Radiation Safety Officer via the Health, Safety and Environment Manager. The facility report should cover the final abandonment details such as:
  - a) Actual date of abandonment.
  - b) Any changes in the data sent with the approved abandonment plan.
  - c) A new well diagram if different from the that submitted with the approved abandonment plan.
  - d) Any information pertinent to the abandonment that the STC RSO may not have for his/her final report.
  - e) If all data sent to the STC RSO is still applicable for the final report, an e-mail or fax is to be sent to the STC RSO confirming that fact so that he/she can be ensured that the data sent to the appropriate agency is totally accurate. Most facilities send a completely new report since many these documents often are incomplete or are poor quality fax reproductions.

If there are any questions regarding these procedures, discuss them with your Operations Manager.

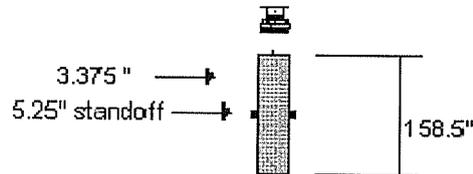
**FACILITY MANAGEMENT MUST ENSURE THAT THE FINAL ABANDONMENT REPORT IS SUBMITTED TO THE STC RADIATION SAFETY OFFICER.**

Radiation (feet from tool zero)  
 NSR-F: 78.9'  
 GSR-J: 66.6'

Min Tension: 22,000 lbs  
 Min Compression: 3,000 lbs

LEI-WI

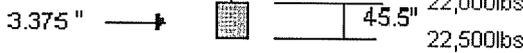
AH-jars  
 AH-jars



AH-107



HTCS-A  
 HTCS-A



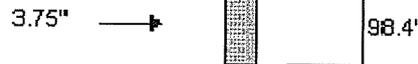
EDTC-B

EDTH-B  
 EDTC-B 8201



HNGS-BA

HNGS-BA 208  
 HNSH-BA 219



HNGC-A

HNGH-A 1

AH-107



HILTB-FTB

HGNSD-B 1919

HMCA

HGNH

NLS-KL

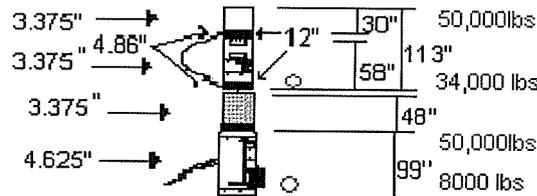
NSR-F 2433

HACCZ 719

HCNT

HGR

HRCC-B 723



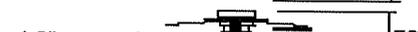
AH-107



PPC2-B

PPC2-B

PPC\_CAL\_STD

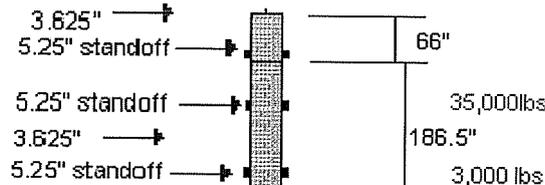


MAPC-B

MAPC-BA 8102

ECH-SF

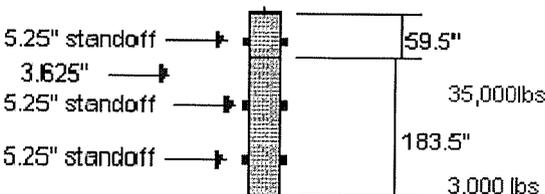
MAMS-BA 8103



MAXS-B

MASS-BA 8080

MAXS-BA 8083



PPC1-B

PPC1-B

PPC\_CAL\_STD

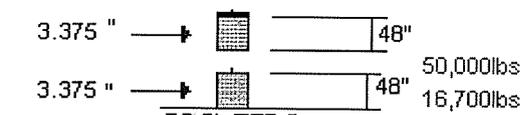


AH-thru

AH-thru

GPIT-F

GPIH-B

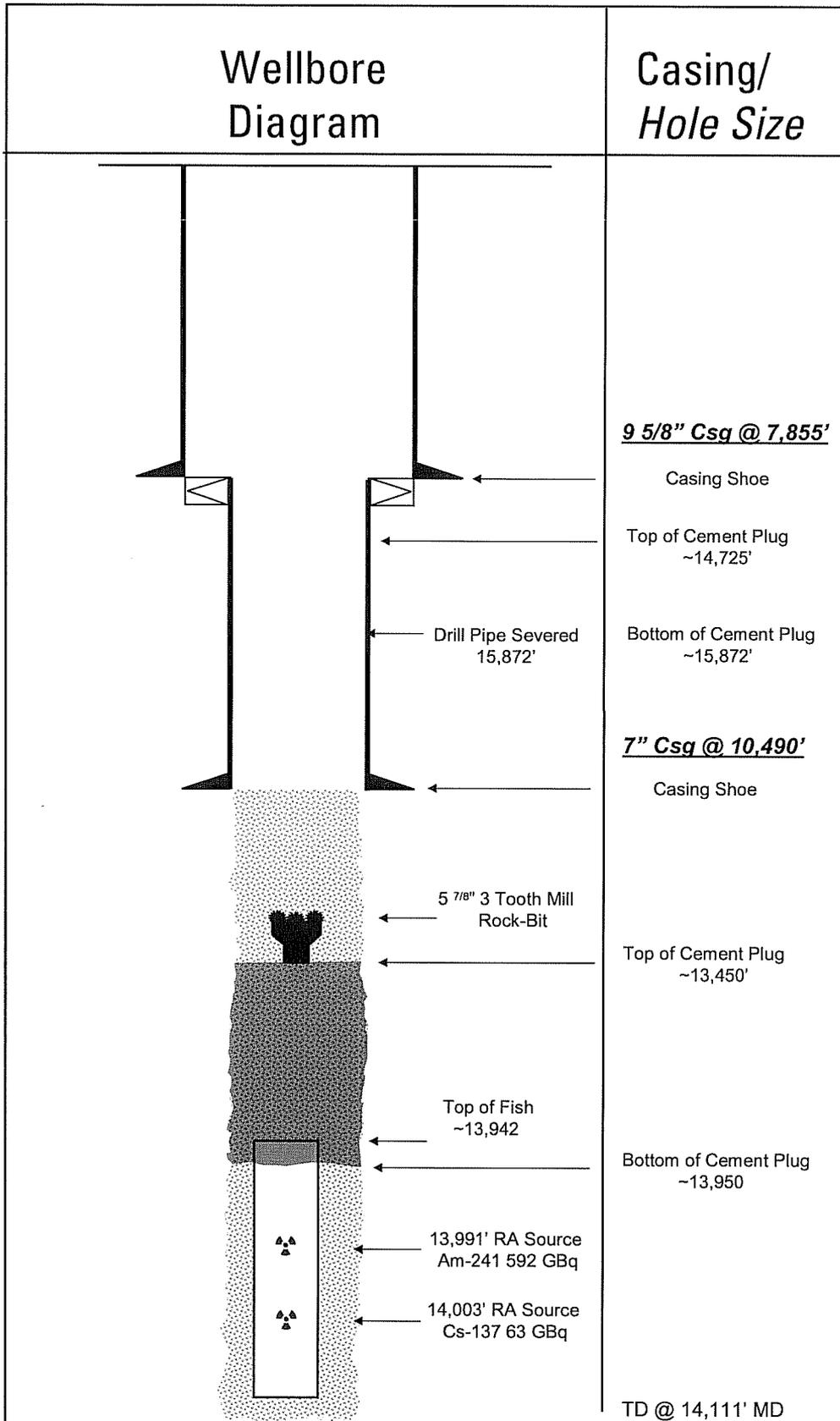


TOOL ZERO

MAXIMUM STRING DIAMETER 5.25 IN

# ExxonMobil

## OCS-P 0182 HE-27 ST02



## **Fishing Summary of Events**

Updated 5/21/07 21:30

Tools stuck at ~14,085 ft. We pulled cable tension up to 9500lbs, head tension reading 1500lbs.

We cut the line about 15 feet above the rig floor to make the fishing rope sockets. However when we started rigging up the LWF gear, there was only about 5 feet above the rig floor (at equal tensions as the 15 feet from before). This 10-ft of downhole cable must have been lost right away, as the fishing torpedo remained the same height above the rig floor during the cut-and-thread trip to the casing shoe. Since we had been able to move the tool down but not up, we attributed this to tool slipping when we first slacked off to c-plate the fishing latch, but the exact reason is unknown.

Tools powered up fine on surface, but head tension was now reading 300 lbs, even up until the time the overshot was right above the tool. Even when we pulled higher, head tension did not increase, though we never got above 7000lbs. Exxon took this to mean there was slack in our cable. However, this was 16-18 hours after we had initially gotten stuck. We took all this as a sign that our tool string was stuck. The HTCS was located beneath the 14.5' wireline jars, and I believe at that point that the toolstring was stuck in the jars/head area. Supporting evidence is the fact that the drill pipe got stuck for 10 minutes while less than 30-ft above our head. I think it's safe to assume that the rest of our toolstring was pretty stuck too, which explains why our head tension was so low (we were now resting on the toolstring).

Headed down with overshot, keeping a line tension of 5000-6000lbs. LWF torpedo remained about 5-ft below the rig floor at this tension. At 12,315ft, rig circulated 3 bbl/min for 15 minutes. Continued heading down.

Winchman maintaining ~6000lbs (estimated 4300 line weight + 2000 over). One stand above of top of tools, rig started circulating 4 bbl/minute at 1000psi. Continued circulating while heading in with last stand. Stopped about 30-ft above tools, and pulled drill string up in order to estimate normal weight (to compare with weight after fish is engaged). When string pulled up, winchman noticed 400-lb loss of tension, and telemetry is lost. Attempts to restore telemetry failed. Safety switch is put into CIS and resistance measured from CIS box. Resistance showed normal (tools still connected). Winchman notified rig of 400-lb loss of tension, rig pulled up on drill pipe to see if we lost more tension. We did not. So then rig headed back down until winchman noticed tension increase to 7000 lbs. Stopped the rig and rig started heading back up and we lost tension to about 2000 lbs.

Resistance measured from CIS box and readings were not as they should be (tools no longer connected by wireline).

Drill string pulled up and pulls 400,000 lbs of tension (180,000 over normal, stuck for 10 minutes) before returning to normal tension. Fish believed to be engaged at this point.

Winchman pulled 6000 lbs tension, then slacked to 3000lbs so LWF torpedo could be passed over sheave wheels. T-barred the cable and let out slack so that the cable could be removed from the IDW and CMTD to let the torpedo spool onto the drum. Cable was replaced into the IDW and CMTD, and winchman maintained 3000 lbs until Cable Side Entry Sub reached surface.

Drill pipe tripped out of hole until Cable Side Entry Sub reaches surface (supposed fish at ~10,320 ft), but drill pipe is pulling dry with no fluid column in the center. Noticed that stranded armor has bird nested above CSES. Winchman pulls 6000 lbs of tension, bird nest moves up above CSES. Then winchman slacks off to 1000lbs of tension so that CSES could be removed and raised up. After CSES removed, winchman pulls up to remove slack, reaches and maintains 3800lbs of tension even though he is still reeling in cable. Realized that cable is no longer attached to tools, and cable is reeled in until it reaches surface. End of cable was cut and in a "J" shape.

Tripped pipe out of hole and were unsuccessful at recovering the fish. Grapple showed no signs of engagement.

## **Fishing Summary of Events**

Updated 5/23/07 9:00

Tools stuck at ~14,085 ft. We pulled cable tension up to 9500lbs, head tension reading 1500lbs.

We cut the line about 15 feet above the rig floor (T-bar) to make the fishing rope sockets. However when we started rigging up the LWF gear, there was only about 5 feet above the rig floor (at equal tensions as the 15 feet from before). This 10-ft of downhole cable must have been lost right away, as the fishing torpedo remained the same height above the rig floor during the cut-and-thread trip to the casing shoe. Since we had been able to move the tool down but not up, we attributed this to tool slipping when we first slacked off to c-plate the fishing latch, but the exact reason is unknown.

While performing the fishing operation, we would latch the fishing spear as normal and pull up so that the fishing c-plate could be removed. We would then descend ~15-20ft, because the fishing spear/weight assembly was so long (15 ft) that when they came down with the top-drive elevators, the top of the fishing assembly would hit the bells (cow-catcher) on the elevators, and then a hit a bar at the top of the elevators. Steve Maxwell (the tool-pusher) told us to descend like this, because the top of the fishing spear wasn't beveled enough to where it would easily slide past the bells of the elevators. The company man suggested changing out the bails (arms) on the elevators for additional length between the top of our fishing tools and the elevators, which they did after the 3<sup>rd</sup> or so stand. The distance between the elevators and the top of our fishing assembly was still fairly close (we would still rub against the bells (cow catcher), but the bar was no longer a threat), so Steve the tool-pusher told us to keep doing what we were doing anyway, so we continued to descend after each cut-and-thread latch. All fishing equipment belonged to Paul Little of Weatherford.

Did a roller system idea come up to solve the fishing torpedo/elevators problem?  
ID/OD of fishing tools?

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## **Report of Cementing Procedure**

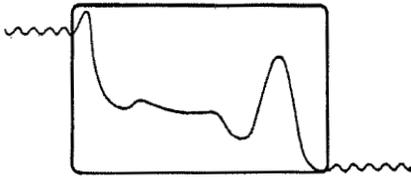
Cement was pumped 5/25/07 at 19:00.

18.2 barrels of 13.5 ppg cement was pumped. Cement was TXI with Silica (light slurry cement) mixed with Red Mortar Dye obtained from Home Depot.

Top depth: 13,450 ft.

Bottom depth estimated to be 13,950 ft. As top-of-fish depth is expected to be around 13,942 ft, the intention was to pump cement around the top of the tool to firmly cement it into place.

After cement was pumped, a 5-7/8" 3-tooth mill rock-bit was lowered and dropped on top of the cement.



# Monitoring Services

P.O. BOX 266677 . HOUSTON, TEXAS 77207 .AREA CODE 713/478-6820 . FAX 281/532-0929

## SEALED SOURCE LEAK TEST CERTIFICATE

RSO

Schlumberger Oilfield  
Services 6610  
2841 Pegasus Drive

Customer#: 734

Source #: 33767

Bakersfield

CA  
93308

Account #: 734

RADIONUCLIDE: CS-137

ACTIVITY: 1.7

CI

SERIAL NO: A5093

WIPE DATE: 1/23/2007

SOURCE CODE: GSRJ

EFFICENCY: 0.95

NET CPM: 29

GROSS CPM: 39

BKG CPM: 10

NET CPM

=MICROCUIRE

EFF X 2.22x10<sup>6</sup> DPM/u CI

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0x10E-3) MICROCUIRE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY

WAS: 1.375E-005

MICROCUIRE

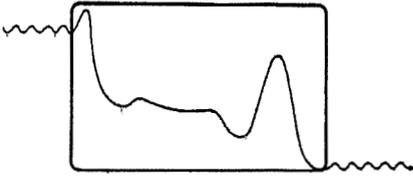
5.088E-001

Bq

ASSAY NO: 1/28/2007 69

DATE: 1/28/2007

ASSAYED BY:



## Monitoring Services

P.O. BOX 266677. HOUSTON, TEXAS 77207 .AREA CODE 713/478-6820 . FAX 281/532-0929

### SEALED SOURCE LEAK TEST CERTIFICATE

RSO

Schlumberger Oilfield  
Services 6610  
2841 Pegasus Drive

Customer#: 734

Source #: 4282

Bakersfield

CA  
93308

Account #: 734

RADIONUCLIDE: AM-241

ACTIVITY: 16

CI

SERIAL NO: A2433

WIPE DATE: 1/23/2007

SOURCE  
CODE: NSRF

EFFICIENCY: 1.32

NET CPM: 27

GROSS CPM: 37

BKG CPM: 10

NET CPM

=MICROCURIE

EFF X 2.22x10<sup>6</sup> DPM/u CI

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0x10E-3) MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY

WAS: 9.214E-006

MICROCURIE

3.409E-001

Bq

ASSAY NO: 1/28/2007 70

DATE: 1/28/2007

ASSAYED BY:

**Oilfield Services**  
Radiation/Explosives Compliance

200 Gillingham Lane, MD 7  
Sugar Land, Texas 77478  
Tel 281-285-7460  
Fax 281-285-8526

**Schlumberger**

**Fax**

Date: June 25, 2007

To Ernie Jilek

Fax : 985-727-2165

From Tom Wood

Tel: 281-285-7460  
Fax: 281-285-8526

Subject Abandonment Plaque – ExxonMobil

Pages 2 (including cover)

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Ernie,

Request for abandonment plaque for **ExxonMobil**., well information follows.

Regards,

  
Tom

This transmission is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged and confidential. If you are not the intended recipient, you are hereby notified that any disclosure, distribution or copying of this information is strictly prohibited. If you have received this transmission in error, please notify us immediately by telephone and return the original documents to us at the address above via the United States Postal Services.

**Oilfield Services**

200 Gillingham Lane  
SugarLand, Texas 77478  
Tel 281-285-8500

**Schlumberger**

Graphics N' Metal  
1200 Clausel Street  
Mandenville, LA. 70448  
(504) 669-6082  
(985) 727-2165 (Fax)

June 27, 2006

Attn: Ernie Jilek,

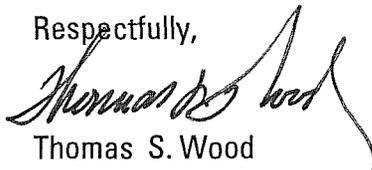
Please construct the standard abandonment plaque with the following information:

Company: ExxonMobil  
Well Name: OSC-P-0182 HE-27 ST02  
Field: Pescado Field  
Location: X: 783,833' Y: 818,075'  
State: Offshore California  
API#: 043 1120 76002  
Date of Abandonment: 25 May 2007  
Well Depth: 14,111' MD  
Plug Back: 13,450' MD  
Top of Fish: 13,942'  
Sources Abandoned: 63 GBq (1.7 Ci), Cs 137, Density Source @ 14,003'  
592 GBq (16 Ci), Am-241, Neutron Source @ 13,991'

Special Instructions: DO NOT RE-ENTER THIS WELL BEFORE CONTACTING  
REGION IV OF THE NUCLEAR REGULATORY COMMISSION  
OR THE PACIFIC OUTER CONTINENTAL SHELF (OCS) REGION  
OF MINERALS MANAGEMENT SERVICE (MMS)

Please forward to me the completed plaque and invoice.

Respectfully,



Thomas S. Wood

MEMORY TRANSMISSION REPORT

PAGE : 001  
TIME : JUN-25-07 09:30AM  
TEL NUMBER1: +281-285-8526  
TEL NUMBER2: +  
NAME : Schlumberger Technology Corp.

FILE NUMBER : 865  
DATE : JUN-25 09:28AM  
TO : 919857272165  
DOCUMENT PAGES : 002  
START TIME : JUN-25 09:28AM  
END TIME : JUN-25 09:30AM  
SENT PAGES : 002  
STATUS : OK

FILE NUMBER : 865 \*\*\* SUCCESSFUL TX NOTICE \*\*\*

Oilfield Services  
Radiation/Explosives Compliance

200 Gillingham Lane, MD 7  
Sugar Land, Texas 77478  
Tel 281-285-7460  
Fax 281-285-8526

**Schlumberger**

**Fax**

To Ernie Jilek

From Tom Wood

Subject Abandonment Plaque – ExxonMobil

Date: June 25, 2007

Fax : 985-727-2165

Tel: 281-285-7460

Fax: 281-285-8526

Pages 2 (including cover)

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