

INTERVIEWS

BRIAN MOREL

-1230
1037 / 27 APR 10

N.H. ; RICE

ROLE

BP AWADAHKU

NIGHT WELL SITE LDR

GOM

MAD DOG 18 MOS

DAY TO DAY DRILLING

SPAR

} CHALLENGER

EXPLORATION

PUMA WELL

JR ENG

WROTE DRILLING PROG FOR MATCONDO

LEAD ENGINE

EVENT

ISSUES WITH PRESS - PURE
{ - PP LOW
{ - FRAC HIGH

TAKE LOSSES

CUT BACK MUD WT

14.5 → 14.3

TO STOP LOSSES

GEOTHER

14.12 TO 14.16

12.6 ON FIRST SAND

CONCERN W/ TOOL?

SPEEZY ✓ OUT

4504

Exhibit No. _____
Worldwide Court
Reporters, Inc.

EMER LCL PILL TO STOP LOSS
PULL UP TO CASING SHOE

READY TO PUMP ANOTHER

BUT STOPPED LOSS

DRILLED ANOTHER 100 FT

LOGGING SMOOTH

CLEAN OUT TRIP

RAN 7" CASING 5800'
FOLLOWED BY 9 7/8"
ONE BOBBLE
10000 LBS DOWN

7" FROM NEXON
CROSSOVER TO 9 7/8" VENDOR

RIG UP CEMENTING LINES
DIVERTER CLOSED AS SUPPOSED TO
HOLD PRESS

PRESS UP AND CONVERT FLOAT EQUIP
PRESS TO 1800 STILL WOULDN'T GO

RECON ROCKING BACK

BROKE FREE AT 4100
PRESS. LOWER THAN EXPECTED

DECIDED P GAGE

RIG STAND PIPE P GAGE WAS NOT FUNCTIONING
(STANDARD OUT THERE)

WANTED P CLOSE TO 14.5 , BNE
ABOVE 14.16

7 BARRELS

20 14.3 SPACER

5 CEMENT JO

39 FOAM

7 SHOG TRACIC VOLUME

20 BBL SPACER

(2 4 / H)

DART FOR BOTTOM

P HIGHER THAN EXPECTED

DIDN'T SEE BOTTOM REVERSE

TOP THROUGH D.D.T.

AFTER 150 BBL SW TO RIG PUMP

STAND PIPE P/

P AGREED, BUT LOWER

P LOWER

7" BOT PLUG

WENT THROUGH

P INDUCTION AT PUMPS

BOT PLUG LANDED

9 BBL'S OF WATER

IT SHOULD HAVE

TOP PLUG

OK

SET SEAL ASSEMB

6 TURNS RIGHT TO R

4000 PSI

10 000 PSI 10 SEC

BLEED TO 6700 PSI (6500 INTENTION)

WATCHED FOR 1 HR BEC RATE MORE
THAN EXPECTED

VADRIE PROCEDURE

SITING

STABBED RUNNING TOOL INTO WELL HEAD

PRESS DROPPED 5 PSI/MIN

4 PSI/MIN FOR 10 MIN

FLOW
CHECK

WENT TO BED

HR B4 FLIGHT WAKE UP EARLY

WROTE OPS NOTE

BRIDGE GAP BET PROCD & CURRENT OPS

LEFT.

ARRIVE THURS

BED TUES 3PM

DEPART TUES 11AM

LOOKED AT DATA RETROSPECTIVELY

U TUBE EFFECT - BOTH HAD SEA WATER
CLOSED ANNULAR

DIDNT HAVE VLV OP
AT CEMENT UNIT (CLOSED)

1400 PSI

CLOGGED MUST HAVE BEEN

16 ^{PSI} ~~LB~~ SPACER

14 PSI MUD

CEMENT PLUG Δ DUE TO
RUN LOCK DOWN SLOVE

- C
- LEAD IMP
- NEED 3000' TO GEN 100000 LBS TO SET

P1

WORRIED ABOUT P&A ON NILE
SIM OPER TO PREPARE

PLUS ASSIGNMENT

CONVERSATIONS ABOUT HOW TO EFFECTIVELY
MOVE

CULTURE FEELING OF CROW?

RIG IS PERF DRIVEN
ONE STEP AHEAD ALWAYS
GREAT WELLS OVER 9 PRS
TOUTED ONE OF BEST TRANSOC EBP

SOME OPS DIFFERENT ON NEXT WELL

P&A OPS ON NILE DIFFERENT

PROD CASING ORDIN.

EVERY MTG TALK ABOUT SAFETY
TRANSOC SAFETY ON BOARD
TAPE UP FOR EVERY P TEST, LIFT
LINES MARKED OFF PROPERLY

O TIR + NEED TO FOCUS & MAINTAIN

I ALWAYS FELT VERY SAFETY

EVERYONE FIRST SAFETY
PRODUCTION CLOSELY FOLLOWS

STOP JOB NUMEROUS TIMES
DO ANOTHER JSA
EVERY NEW CASING
AFTER RUNNING SO MANY FT
TO NOT GET COMPLACENT

SAFETY CLASSES
DRILLER INVOLVED, ASKING QUESTIONS

STOP : DOING SOMETHING NEW
DOUBLES

JOHN GUIDE INVOLVED
START CARDS INCREASING

CEMENT JOB

ASSUMING SHOE WEIGHT PT 16.1
HAD WEAKER FORMATION

NEEDED

N2 FOAM CAN REDUCE WT
16.7 CEMENT, ADDED
14.5 PPG

ALLOWED { 14.6
 { 14.2 UPPER SAND

PLUG NEED TO ISOLATE CEMENT

MUD
SPACER
CEMENT
SPACER
PLUG

MOC FOR CEM JOB

ITALIBURT PREDICT
15 PPG EQUIV W/O
THOUGHT SHOULD NOT ATTEMPT

JOB DESIGNED IMPROPERLY
14.4 MUST HAVE BEEN WRONG
14.19 FROM P GAGES

PRESSURE EFFECT
DUE TO COMPRESSIBILITY
EFFECT (~~WAS~~ ADDED WATER)
14.0 TO 14.2 TO RID COMPRESS.
IN MODEL

CEMENT DESIGNED TO NOT GO INTO $9\frac{1}{8}$ "

PLAN 500' ABOVE KNOWN = 17300'
17800 (MMS REF)

LEAVE 40' TO 50' INCREASE OFF BY
ONE JOINT ON COUNT

HAVE N2 PRODUCT. STRINGS IN DEEP WATER

WERE SUPPOSED TO GO 19600'
BUT FRAC. READING LOWER, DIDN'T GET

28" & 22" = WE ALWAYS FOAM
BUT NOT AS DEEP

HORIZ FEW HUNDRED SACKS
V. ~~FEW~~ THOUSAND ON OTHERS FIRM JOBS

RIG PUTS INFO INTO PROCEDURE SINCE THEY
HAVE UP TO DATE INFO (ON CEMENT JOBS)
SAFETY RISK ASSESS.

WHEN SAW THINGS OUT OF UCD IN

DRAWING PROGRAM DIDN'T INCLUDE PROD STRING
SO HUC WROTE FOR (1) PROD STRING
(2) CEMENT JOB

(2) PACKOFF & (3) NEG PRESS SOME ASSEMBLY

(1) CASING

DRILQUI PROGRAM

DRILQUI HAND EXPECTED TO RUN PROCEDURE
RECOM 3000 X 4000 AND 10000

OPER PRST

6500 PSI

(BOP = WERE TESTED
AT 3500 AND ANNUALLY
6500 W/ PIPE)

10000 P 10SEC

CRITERIA : PRESSURE TEST

BOOK RECORD 1 TEST

- ① ROTATE
- ② PRESS TO FORCE DOGS
- ③ PULL

PULL 10 FT , CIRCULATE
RESTART

} NOW PROC
TO PRECLUDE
SEPAR FROM
SEAL ASSMB

* IF PRESS TEST NOT SUCCESSFUL :
RIG OPER MGR (JOHN GULDE) MUST DECIDE

REGARDING NEG TEST :

MINOR DECISION - (HARD)

BIGGER - JOHN GULDE

ON 20 APR THEY DID CALL MARK HAFLE

BUT WAS NOT TOLD ABOUT PRESS

"FIRST ONE DIDN'T LOOK JUST RIGHT,
BUT SECOND OK"

NEG TEST

STAND ?

EACH RIG DOES IT THEIR

WE DISPLACE TO STINGER TO WELL HEAD
TO SEAL WATER

TEST THOSE LINES

OPEN ONE LINE AND DRILL ~~STRA~~ PIPE
TO CEMENT UNIT; LOOKING FOR
FLOW

2350 PSI DROP

(SIMULATE
SEA WATER RIG TO 8300')
MMS APPROVAL OBTAINED

BULLETED OPS NOTE DOESN'T TELL YOU
EXACTLY HOW TO DO IT

OPS NOTE

PROCEDURE : LEAVE KILL WT IN DRILL PIPE
~~BUT IN THIS CASE~~
THEY APPROVED

NEG

- A. BOTH ENDS OPEN
- B. OPEN ONE END

DON'T ~~UNDER~~ KNOW IF TRIED TO BLEED PRESS

LACK OF UNDERSTANDING ABOUT HOW U TUBE
WORKS

(TRAPPED PRESS ON SURFACE? OR BLOCKAGE?)

~~THE~~ CRITERIA FOR UNSUCCESSFUL TEST : FLOW
~~OR~~ BUT NOT PRESS

NO FLOW IN KILL LINE

NOT REPORTED TO TOWN

T
IF GAS REACHES KILL LINE, IT WILL
FREEZE, EXPECT HYDRATES

NO PROTOCOL TO WITNESS NEG TEST

~~CAN BE DONE WITH~~

COMMUNICATION

CHANGES TO PLAN?

1. MINOR (DRILL BIT MANUFACTURE)

ENGINE INFORMS OTHER

CALL RIG MGR

SEND NOTE

2. MAJOR CHANGE

MOC, USE BIZ FLOW

NEGATIVE TEST:

30 MIN TEST (DRILLING PROCEDURE)

CONFUSION OVER WHY ENG WAS TOLD
2 NEG TESTS; (DIDN'T COMPLETE
TWO TESTS)

MARK IS SNR. ENG.

WAS NOT AWARE OF PRESS ANOMALY