

Bob Kaluza

Normally assigned to TH but on Horizon for 5 days as relief while Ronny Sepulvado was in well control school
Arrived around April 15th

Spent 9 months on rig 8-9 years ago - said this was the well from hell
Didn't know a lot about history of well
finished running casing at 18304' - 9 7/8 x 7" with bullet nose shoe
No valve in shoe, double valve in float collar above
had trouble getting float collar to shear
wasn't on tower for cement job, heard it went well
came on and had to convert Allamon divert sub, converted OK

Allamon had hand onboard to convert tool, had trouble with float collar - Wayne
There was no Weatherford rep onboard
Called town - John Guide - because float collar was supposed to convert at 700-800psi but had to go higher
Got permission to 3000, wouldn't go
Permission to 3500, went off at 3124psi

Rolled pump slowly to work up to 3500, 1bbl/min after shear to not break rock
Circulating pressure 128psi
Flow seemed to come back strong at first, unusual - had modeled hydraulics
4bbl/min 570psi
worked up to that level, got 350psi
seemed odd to Bob and others around, switched pumps from #3 to #4 to see if different, 1bbl/min 205psi, worked up to 4bbl/390psi
discussed with John Guide and Keith Daigle
Guide said to pump cement
Went off tour, pumped cement job

Final circulation before running casing had 1120 units gas at 3000 unit scale
Not really alarming, but it was a bit high, dropped back to background
plan called for 1.5x drill pipe volume prior to cementing, but did not circulate bottoms up
Floats held after cement job
Came back on tour 0600, ready to do pos and neg tests
Don set seal assmby, seemed to go OK
mentioned depth difference between Marianis and Horizon, 5' difference, not unusual
sheared out of seal assmby exactly as should
Run in hole with tapered string
6 5/8 x 5/5 x 3.5
3200' 5.5, 820' 3.5 balance 6 5/8 to 8367'
first ran into 4900' closed blind shears
pumped down kill line, pressure to 250psi to test casing low
2350psi high for 30 mins, rock solid
6.7bbls to get to high pressure (2700) then fell and held at 2350
Doesn't know if they circulated from kill to choke line
good test, bled off open stack, run into 8367'
discussion with town for T&A procedure

EXHIBIT #	05
WIT:	

Confidential

BP-HZN-MBI00021275
BP-HZN-MBI00021237

Hafle called, wanted to ensure Bob had seen TA procedure and permit to modify (Documents)

Morel in bed from cement job night before

team in town wanted to do a combined displacement and negative test which may conflict with APD

Bob asked clerk to go wake up Brian

Brian had procedure that did not match APD

Town decided to deviate, Hafle had been on vacation while change was made

Brian came in, to get straightened out with Mark

Not sure if talked to MMS or not about procedure change (concerned)

went to rig floor to conduct positive test

Ran into hole to 8367', went through mud eng displacement program (Leo MI)

had a couple of questions

Vince (Halliburton) was cementer for high pressure test

Discussed with Wymon (TP) he was comfortable with neg test procedure on annular

Went through procedure with Wymon

Went to office to do cement calculations and plug procedure

Finished plug procedure, crew had pumped SW down drill pipe with 450bbl wbm spacer ahead to place bottom of spacer to just above stack

Boost line displaced with seawater

choke line, then kill line

Pumped volume to clear lines to riser (well bore)

Closed each respective valve with stack open

Crew closed annular

Came to floor, crew was topping off riser - 1260psi on drill pipe

Nothing bled that I knew of - Randy Ezell and Lee Lambert were there

After 1260 on drill pipe, did not take much volume to fill, monitored, static

Comment that Randy pushed for negative test on drill pipe

APD requires monitoring on kill line

discussed pressure on drill pipe

called Vince to bleed 2262psi

Bled off quickly 15bbbls

discussed that they needed monitor on kill line

opened well on kill line to Halliburton

vance called rig floor and said getting flow

Told Vince to shut in, took 3-4 bbbls

left rig floor (close to change out) to talk to Don about where to monitor

Believes they shut in drill pipe on iBOP

Bob and Don to floor, Jason relieving Ezell. Ezell still there

Long discussion about pressure on drill pipe

recalled they said they bled fluid after pumping

Jason said "Bob and Don, this happens all the time"

they called it a 'bladder effect'

said annular element will compress drill pipe pressure to equalize differential pressure

Jason said 'all company men do it differently, but this happens every time, when the riser is heavy the annular puts pressure down on fluid below'

Don insisted that it must be done down kill line

Permit was for down kill line, Jason agreed to do down kill line

make sure kill line was full, monitor

Bob left floor to get procedure for cement job
came back, 30psi on kill line (choke gauge)
Bob went to mini trip tank, 0.6bbls in tank, bled 30psi off, went to 0.8bbls
Monitored kill line, no flow, start 30 minute monitoring
on drill pipe side pressure building, Jason said it was bladder effect, driller
Sevette said he has seen this before also
Couldn't be gas, because kill line was not flowing, it was wide open
weight on bit changing with change on drill pipe pressure
Jason said it would build to 1400psi and then level off
Bob - 'if you have seen this so many times before, it must be true'
Bob left rig floor, 'I went to bed with no anxiety at all'
Left rig floor at 1950 for bed
Bob in bed room 310 - wakes up to noise, power off, dark, opened door to get
light, found and put on clothes
went into hallway, ceiling tile and debris blown into stairway, had to find another
exit, air heavy
Found water proof door at top of steel spiral stairway, a lot of smoke, came back
down
saw someone in hallway with flashlight, went back up staircase, out same door,
instructed Bob to get in LB #2
Lots of panic at lifeboat, tried to calm people, could see fire on derrick leg
Marine guy showed up at life boat, said they needed DPO to launch

Found DPO with megaphone, who was panicking and screaming to leave rig
got on lb, closed door, opened to 4 more people, closed again, lowered - trouble
with disconnect from hook, moved away from rig, took roll

On Boat

went to Bankston, up rope ladder, watched fire from boat
Not as intense of a fire as later, impression that fire being fed from well
candle stick of fire - residue/smoke whitish at first, then darker
said this twice

Heard someone say that mud initially came out of diverter line
Joe mudlogger closest to rig floor
of 11 missing, crane operator was probably climbing down starboard crane
2 mudmen, didn't know where they were, thought 8 on floor
fluid coming out of diverter

Bob said yes definitely mud on Bankston on deck of boat, especially on port side
300bbl gain at 1750 - Bob said Leo said he was pumping out sand traps, which
should be about 300bbl

Joe mudlogger verified, didn't see anything wrong, displacement volumes perfect

Joe told Bob (126-129) 2 explosions - first one filled unit up with smoke
could not exit because of flames, closed door

2nd explosion larger, seemed to knock flames out, knocked everything off wall
exited unit, saw crane operator laying on deck with blood all around, hesitated to
help crane operator, realized they had to evacuate, felt crane operator was
deceased

Asked Bob about what he thought happened
if bladder effect is real, he did not get 2350psi on neg test

Here's how I look at it, if we had bladder pressure sandwiched between mud and water, then extra bladder effect below would cause us to not get a good test
Gas could have migrated up to packoff
hanger seals are seeing the full 2350, something failed
opening kill line would have provided negative test on seals
No problem running casing, problems with floats

Extensive induction with lots of information, safety meetings good, no pressure to finish well

"We didn't talk about what if the negative test fails"

- 8 V 730 started neg test
- 9 V remained until tst comp, held for 30 mins
- 10 V discussion about kill/drill line
- 11 V dave ensell with him at 750 completion
- 12 V in bed 830pm, normally short change at 2am
- 13 V first gas in kill/annulus
- 14 V 2nd pressure in seal assmby gave way
- 15 V adjustment to procedure for permit to drill
- 16 X Brian Morel should be consulted to see if procedures followed

KatCorr

1/4

Feed Back from
Interview - Bob Kabase
Steve, Rex, Jim, Jim.

- ① 450 bbl 16.0
- ① Flow back - he was in office did not know volume. Zangin - saw 65 bbls.
Looks real.
- ① Bob did not look at spacer.
"Lee" on floor during test & discussions.
- ① Halliburton - "VANCE" was on unit
"Joe" mud logger - monitoring all volumes.
He was trapped in unit until 2nd explosion
saw crane operators body
⇒ Down wall.

- Wipe trip -

- Liner on btm - 4 BPP/min worked

- up to 4th 570 psi model - 350 psi.

- when he got down to 4 BPP/min had surge
of mud

→ pump pumps. called town discussed.

Guider/Packer cnt it

#3-350 4 BPP/min

#4 390

model - 570

2/4

- String 6 1/2, 5 1/2, 3 1/2 for negative
- 8367! Review procedure. changed want to P, but APD was kill line monitor kill. Put spacers ahead of seawater.
- T/A Procedure

2400 psi
del 6000
- zero DP
sub 1260

Emailed procedure "Ops Note"

- Drsp kill to rise, closed btm L
LK wit " " "
booster wit " " "

- Stack open drsp DP w/ SW.
- When he got to rig floor DP line ~~2400~~ 1260 psi. It did not know they had bled off.

1710 - Bob on rig floor 1262 psi on DP
Lee, Randy, driller

50 to zero
drill pipe
total on DP
on 3-4 on
line
just in
no pressure?

Ask why it's there 1260 psi. But they said must monitor on kill line. Called cont unit told him to bleed off. It bled off 15 BAC. But Lee driller left line. Vance open K-L to cont to monitor got 3-4 rise. Vance called rig floor "we are getting flow" they said shut it in.

Jason, Earl, Don, Bob, Driller, 2-nd
Engn, Lee all on rig floor.
They explained it as bladder effect.

3/4

Jim: Has completely convinced himself
that negative test went fine. Disassociate
himself with the test. Bob was filling
in for Ronny Separaldo, there not
2 5 day BOP school
been on rig. Don's 4th hitch.

- He went down to work.

Before they opened Kill line it had 30psi. (chide gauge)
lined up to ~~Bladder~~, opened it, bleed
2 1/2 size mini hydraulic Bob watched
this. No flow. DP built to 1400 psi.

Another discussion about bladder
effect. Both TP/Esel explain this
force on annular squeeze fluid.

They were convinced "No flow" on R.
Bob, could not really explain it.

150 Bob left floor thinking all was fine.

300 BBS. 2-9

- 1750 - 3000 gain they took on 300psi during
- 2020 500 psi gain they said they were
dumping sand trap. could not explain.

Leo - mud engers.

He was asleep during explosion. Room
black. Open door. put clothes on went to
life boat.

Baw/Kaman - covered in mud.

Fire was white smoke, over time it got
darker, black smoke.

2/4

- He heard someone say mud came out of diverter.
- 2- mud men - don't know where
- 6- on rig floor.
- 1- cranes on deck.

Joe - 2- explosion

1- could not get out. After 1st expl. put fire out he got away.

Bob - on a track like this he would not complain, then he went on he lost 3 thumb drives, dinner became

Need to look at kill line when they switch and bleed 3-4 sizes. ~~that~~ ^{main high back}

- Thought IBOP was closed.

DP build to 1460 psi