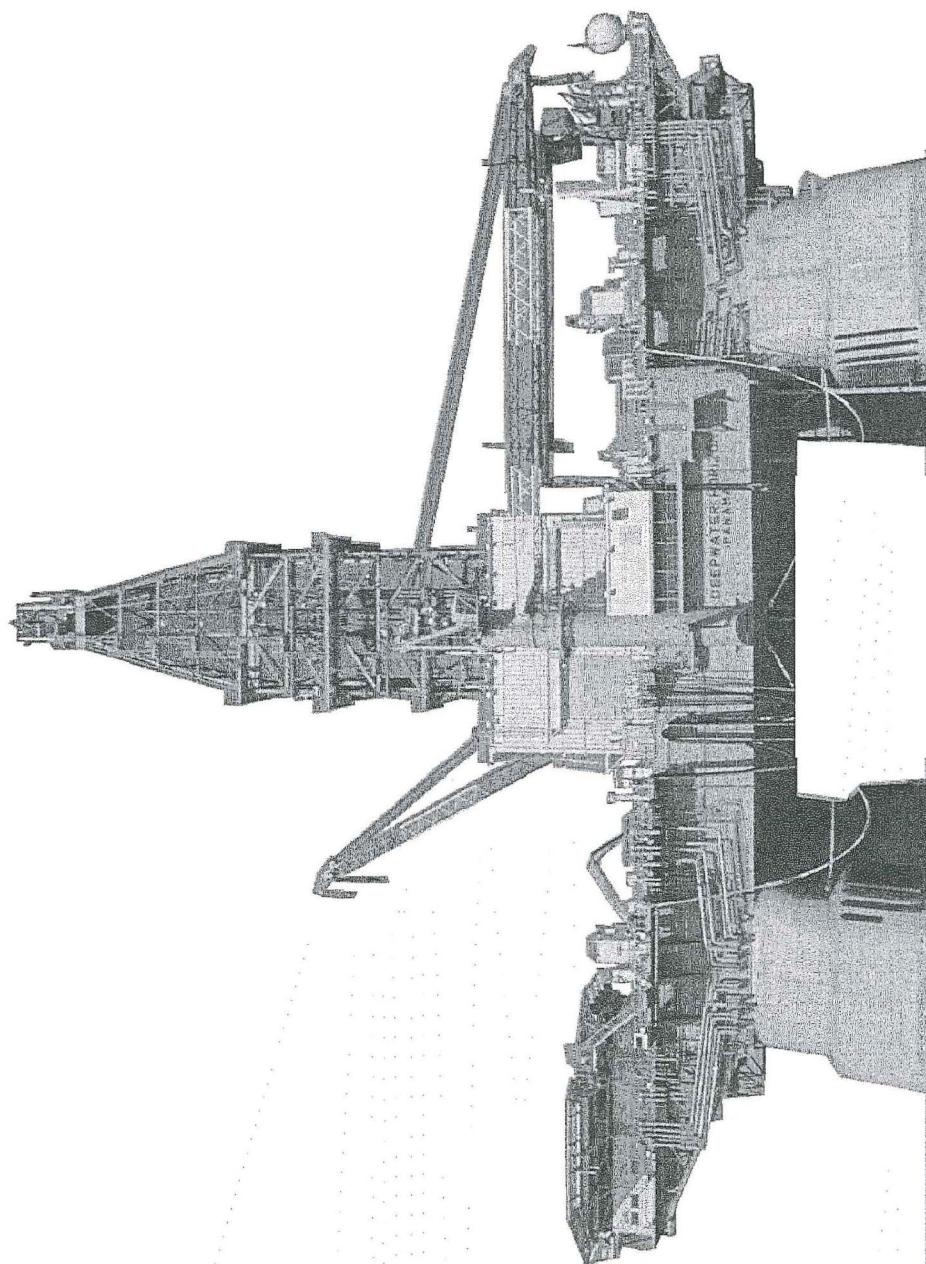


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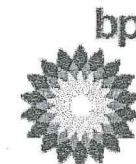


Macondo LL

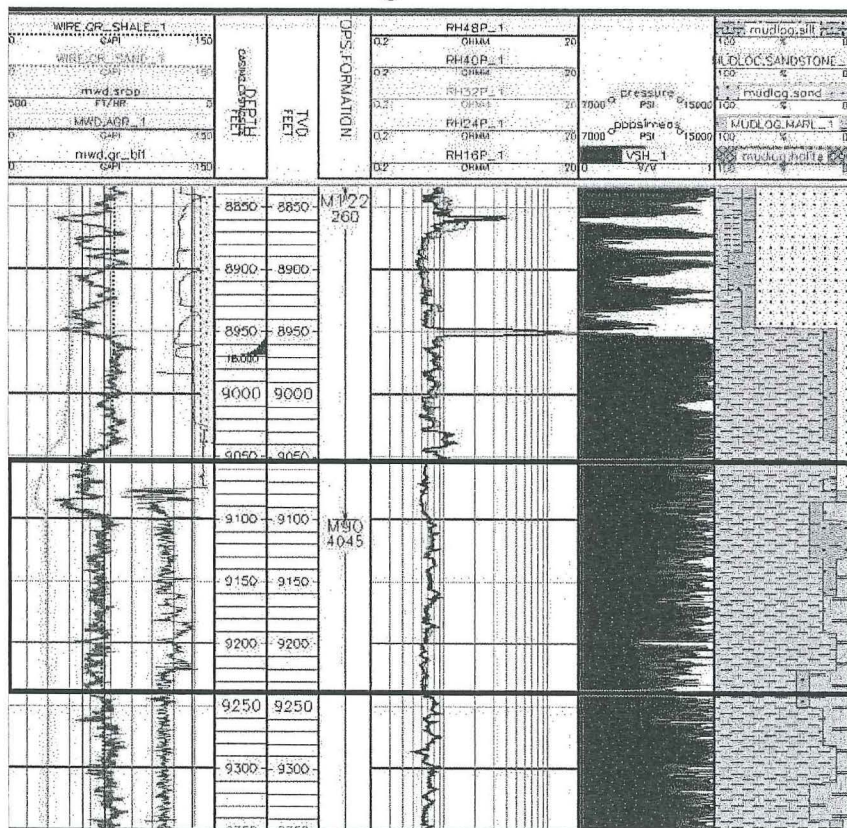
Brian Morel, Mark Hafle, Brett Cocales

March 18th, 2010

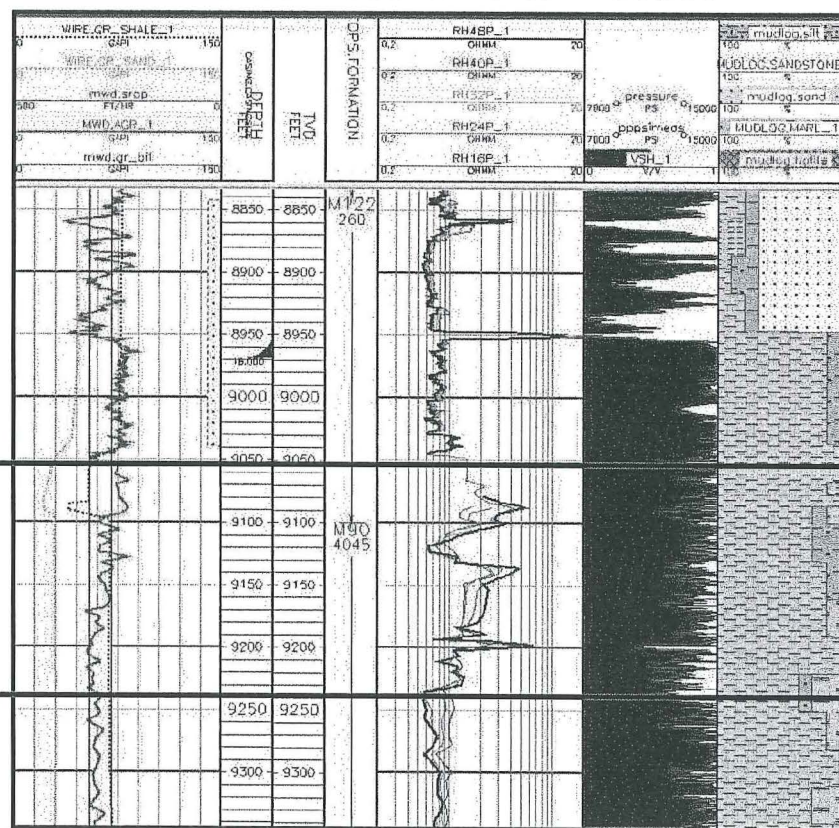
Losses in 16" Interval



Drilling Interval



Clean-out run after Losses



Thanks Rodolfo



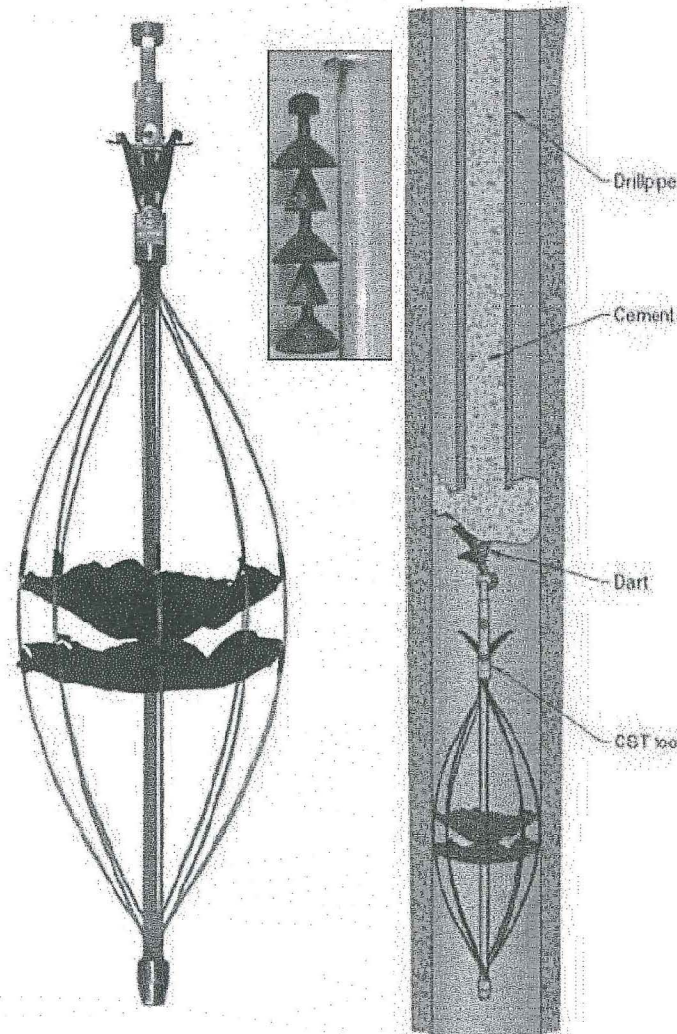
Macondo LCM Pill Summary

Pill #	Description	Volume	Details	Conditions Before Pill	Results
1	LCM	174	84 ppb	Loss rate of 6 BPM / 360 BPH	▼ Losses slowed from 360 BPH to 2 BPH. Shut in well. Opened. Well static
2	LCM	176	84 ppb w/ additional fiber material.	Losses re-started after RIH to 9080' and staging pumps to 40 spm. Loss rate of 360 BPH	▼ Losses slowed to ~18 BPH (in 5 min)
3	Form-A-Squeeze	180	Pumped pill @ 5 BPM w/ annular closed. Last 30 bbls w/ annular open and no returns.	Loss rate of 18 BPH.	▲ Losses at 2-2.5 BPM / ~150 BPH
4	LCM	160	100 ppb. Pumped and disp w/ 11.1 ppg @ 6 BPM w/ annular closed.	Reduced BH pressure by 180 psi with 16.2 bbls base oil on kill line. Annulus static.	▲ Losses at 7.5 BPM / ~450 BPH
5	LCM	185	113 ppb. Pumped and disp w/ 11.1 ppg @ 6 BPM. Left 85 bbls inside casing	POOH to 8620'. Well static.	▲ Well initially static. Losses at 21-96 BPH in next 3hrs.
6	Form-A-Set	180	Mixed at 11.1 ppg. Pumped pill @ 180 GPM (~4.3 BPM) w/ annular closed. Left 10 bbl inside casing. (Did not mix properly)	Loss rate of 96 BPH	▲ 8.5 hrs to mix pill. Losses at 19.5 BPH
7.1	Swell-LCM	109	Pumped @ 35 SPM (~4.4 BPM) w/ annular, c&k lines closed. Chased with 5 bbls of mud.	Loss rate of 5 BPM (~300 BPH)	
7.2	EZ Squeeze	192	Pumped @ 35 SPM (~4.4 BPM) w/ annular, c&k lines closed. Wait 2 hrs. Hest Sqzd 150 bbls total.	Well static when checked after pumping Swell-LCM	▼ Wait 9hrs after SQZ, losses at 1.3 BPH
8	Form-A-Squeeze + Form-A-Set	186 + 164	Disp w/ 11.1 ppg @ 5 BPM. Sqzd 75 bbls total.	Loss rate of 1.3 BPH	▼ Wait 2hrs after SQZ, well static.

Operations



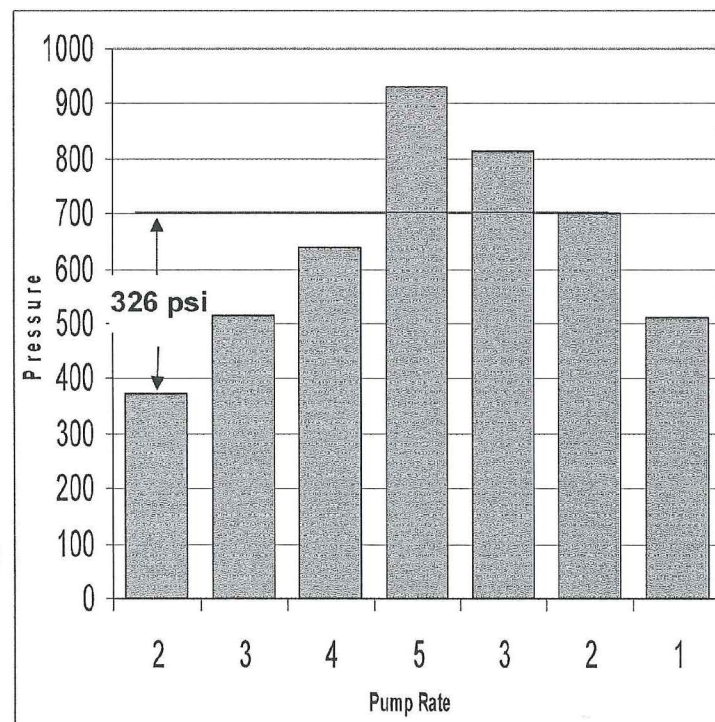
- Set 16" casing at 11,585' (765' off bottom – 12,350')
- Cemented without returns
 - Did not see Weatherford bottom plug release or land
 - Top plug landed as expected
- RIH with 14.75" x 16.5" Drilling BHA
 - Increased MW (11.5 ppg)
 - **Lesson Learned** – DO w/ previous HS MW for LOT
 - Drilled ratty shoe track
 - Loss returns 3' above float equipment (channel)
- Pumped 160 bbls LCM pill (losses reduced 90 bph – 60 bph)
 - Closed annular while cut mud back in pits and riser
- Cut MW to 11.3 ppg (losses reduced to 24 bph)
- With annular closed cut MW in kill to 11.1 ppg (well static)
- Cut MW in riser to 11.1 ppg and opened annular (losses static)
- RIH and cleaned out to ~11,619' TVD (bridge)
 - 11.3 ppg mud / Gas at 419 units
 - Spotted LCM pill
 - Final losses 2.4 bph / Fill riser with 11.1 ppg
- POOH and pick up 3-1/2" stinger
- Squeezed shoe with Halliburton CST tool and 195 bbls
- **Lesson Learned** - CST worked well, base cement plug within 3'



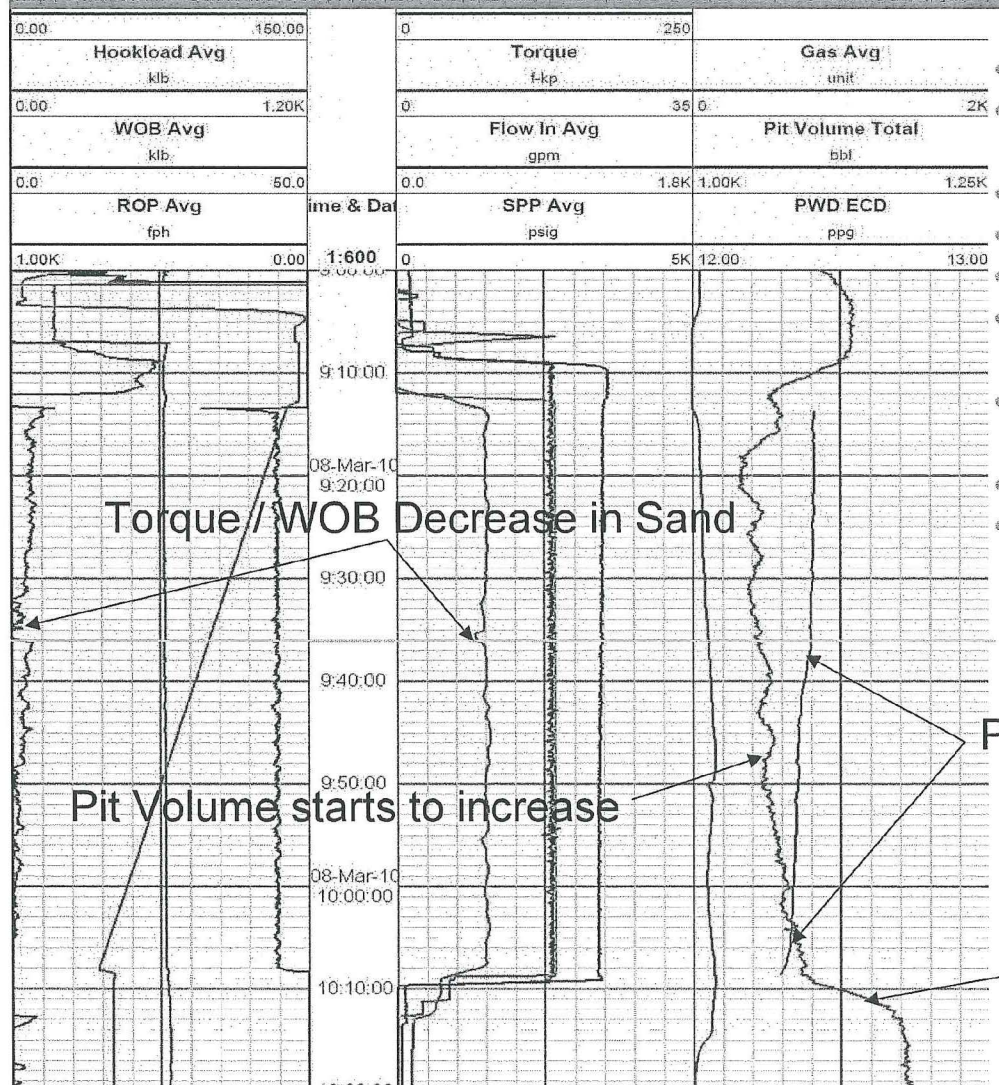
Operations



- **Lesson Learned** - Running ramp squeeze very successful
- LD tubing / RIH and drilled out
- Performed FIT to 12.55 ppg
 - **Lesson Learned:** Always perform LOT in sediment for exploration wells
- Cleanout OH to 12,350'
 - Hole packing off and sticking BHA
 - Fired jars on multiple occasions to free BHA
 - 405 bbls of cuttings back (~33 avg hole size)
- Drilled head from 12,350' to 13,305'
 - Increasing MW from 11.5 ppg – 11.9 ppg
 - 100 units of connection gas on connection (correlated to sandy section)
 - Sonic started to deviate near end of interval
 - PP/FG estimate @13,305' – 12.0 ppg (drilling w/ 12.3 ppg ESD)



Well Control Event

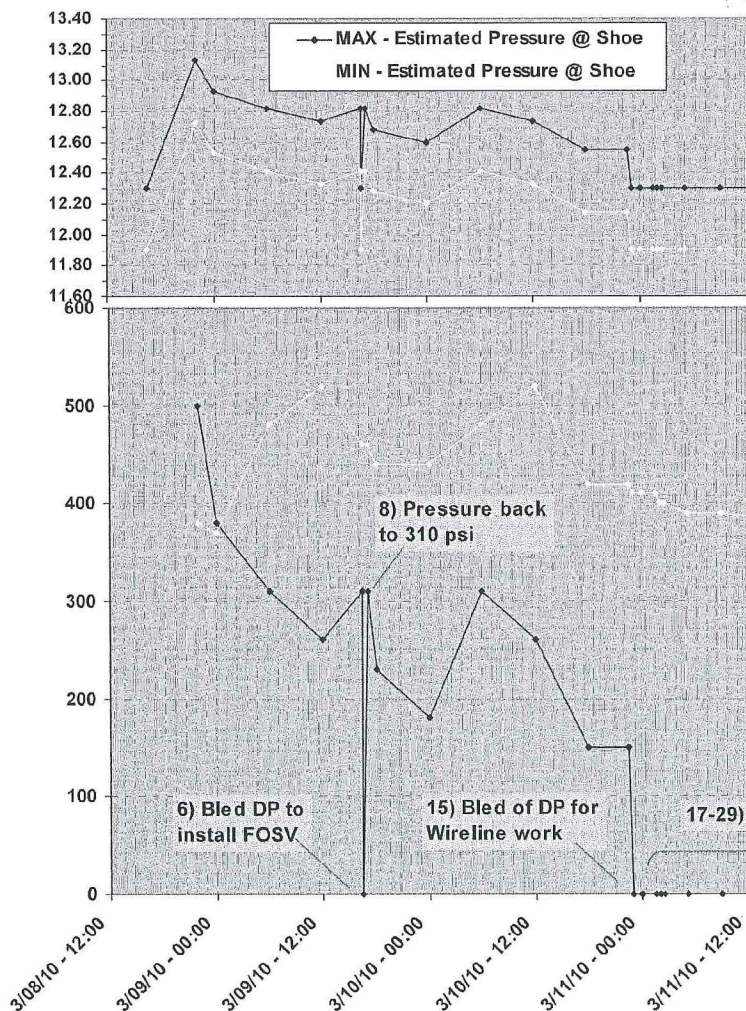


- Drilling w/11.9 ppg SMW 12.41 ECD / 12.3 ESD
- Started taking influx while drilling at 936pm / shut in at 10:09pm(30 mins)
- Picked up off bottom 10'
- Shut lower annular
- 35 - 40 bbls gas influx
- SICP = 380 / Attempted to DP float with 500 psi – no communication
- Pipe stuck – fired jars (5' movement) and took overpull again
- Shutdown and monitored pressures
- Expected influx from 10' sand at 13,250' TVD

PWD decrease 12.41-12.32

75 bbl flowback

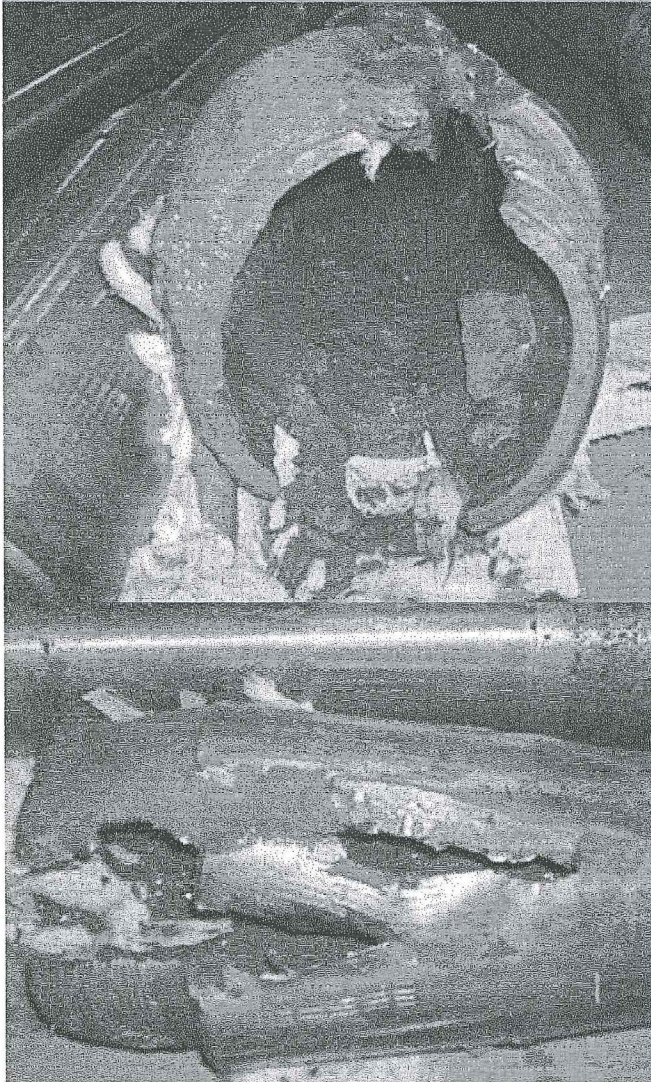
Well Control Event



- Monitored pressure in casing – max 520 psi
- Break down shoe at 520 psi (12.9 ppg - 13.2 ppg EMMW)?
- Rigged up Schlumberger wireline unit
- RIDP with 2.8" gauge ring (tag on xover @ DC)
- RIDP with Slim-CBL and temp log (1.69" OD)
- Tool stuck at 12,200'
- **Lesson Learned** – Don't run tools with large weak stabilizer
- Worked tool some downward movement
- Unable free
- Pulled line max tension – 9700 lbs /
- Increased to 10700 lbs and came free
- Ran 4" gauge ring run
- Set Magna Range DP plug at 12,150'

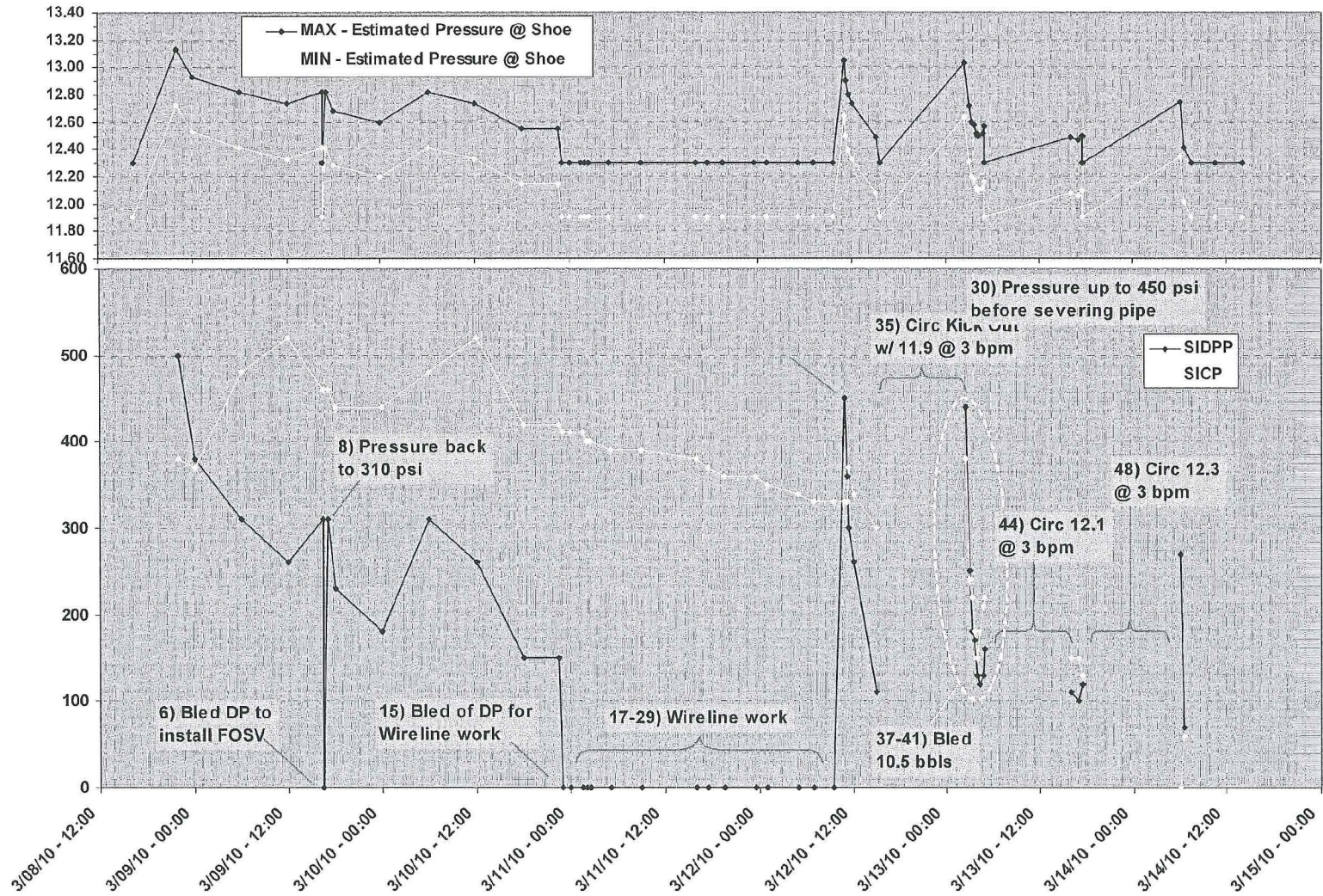
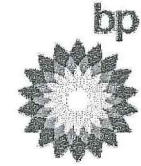
Temp and slim CBL
– 34' long

Well Control Event



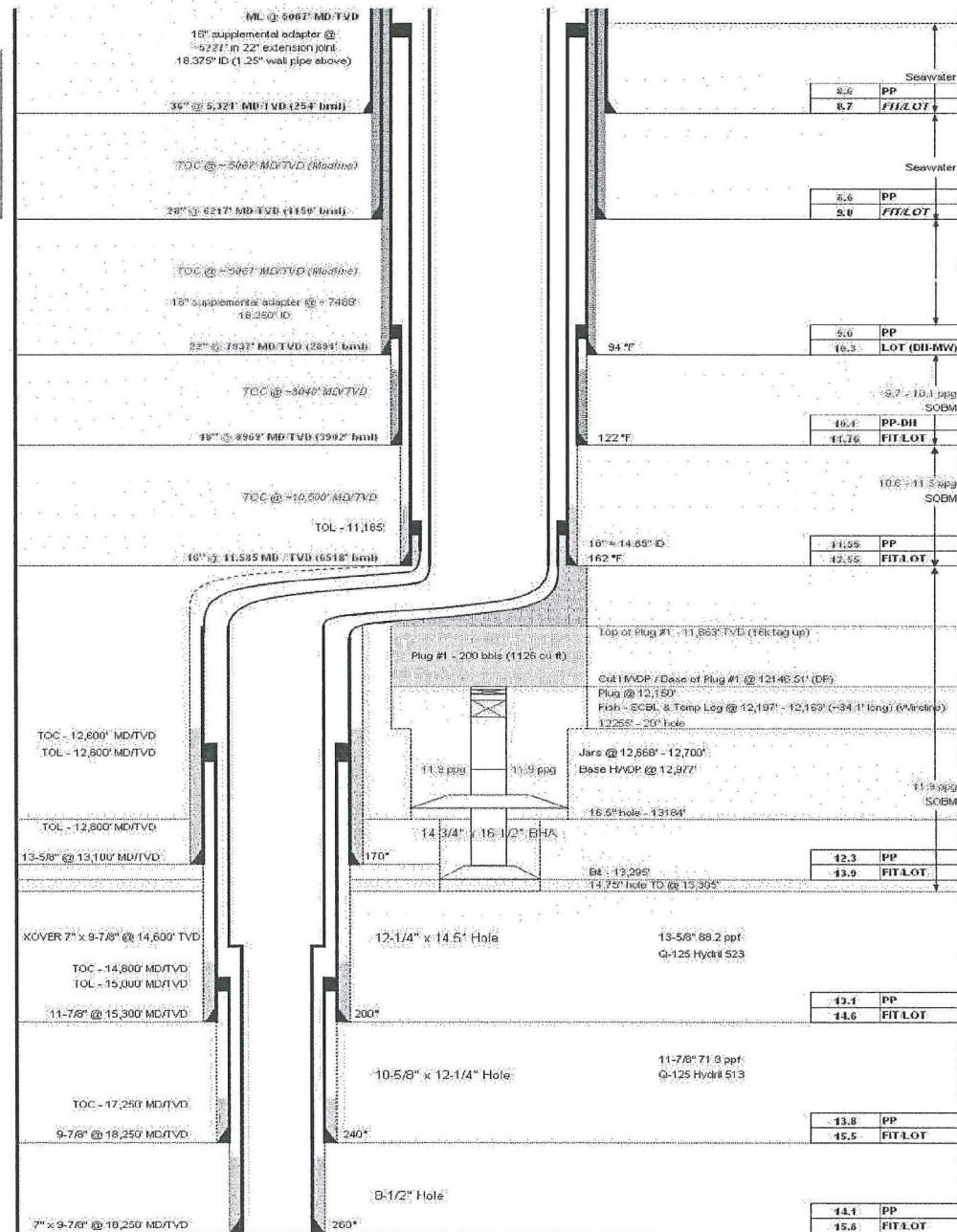
- Severed DS at 12,146' (6-5/8" HWDP)
 - CP 330psi / DP 450 psi (50k tension)
- Circulate kick out using driller method (11.9 ppg – 3 bpm)
 - Initial SICP 300 / SIDPP 110 psi (3 bpm)
 - Final SICP 440 / SIDPP 380 psi
- Bleed off 4 bbls (c250/dp240), 3 bbls (180/220), 1.5 bbls (170/180), 2 bbls (150,130), after 15 min (180,120)
- Circulated 12.1 ppg kill weight mud at 3bpm
 - SICP – 150 psi / SIDPP – 110 psi
 - After 1.5 hrs SICP - 130 psi / SIDP 120 psi
- Circulated 12.3ppg kill weight mud at 3 bpm
 - SICP – 60 / SIDPP - 70
- Swept stack and opened riser – static
- Circulated mud to clean-up gas

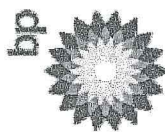
Well Control Pressure Recap



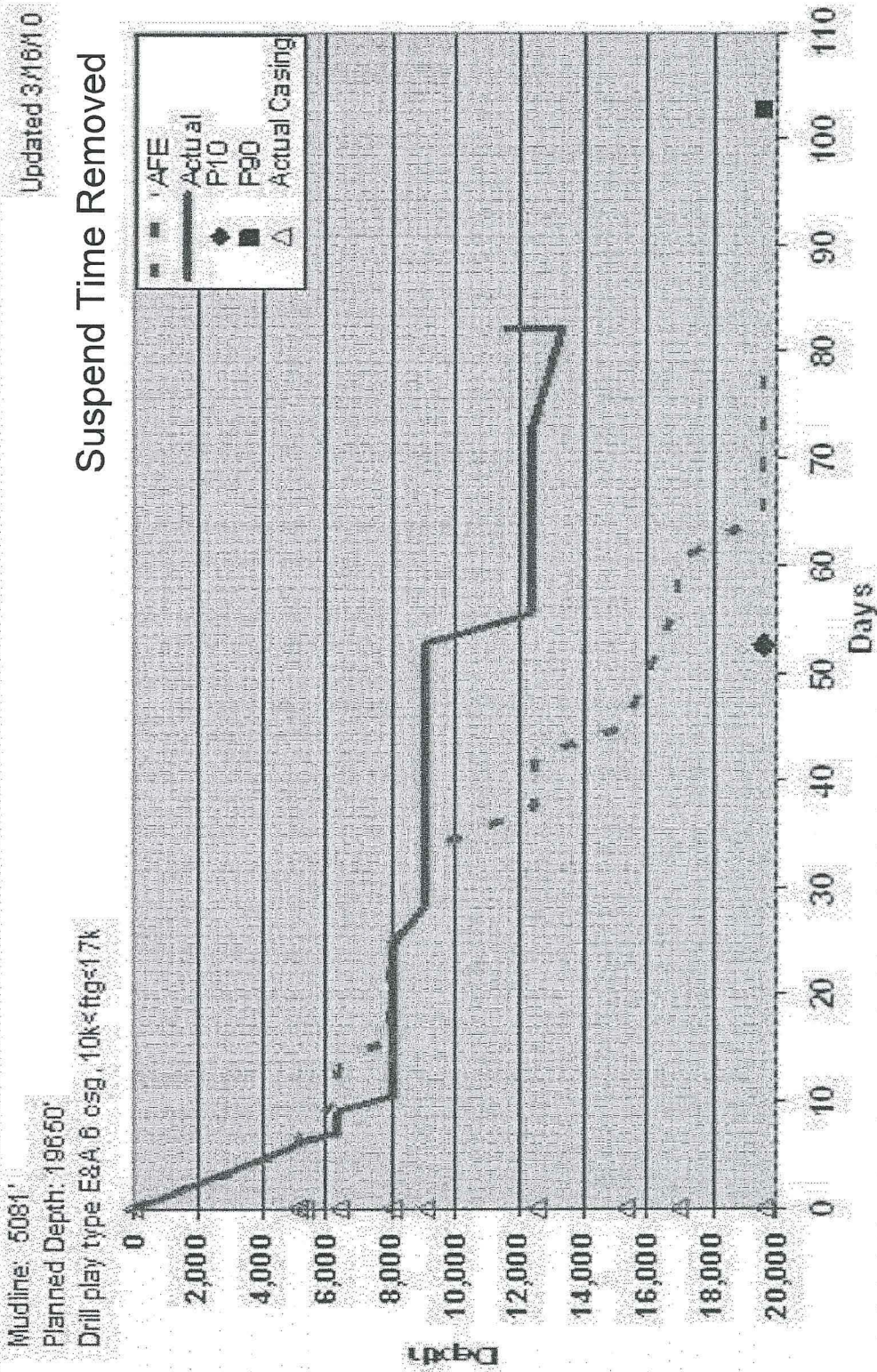
- Spotted 200 bbl plug @ 12,100'-11583' (gauge hole 515' – 20" hole)
- Tested choke/kill manifold
- Tagged plug at 11,863' (237' or 29.5" hole)
- Weight tested plug per MMS with 16k down
- Tested BOP
- POOH and picked up 3-1/2" stinger
- Spotted cement plug #2 (260 bbls)
- POOH with stinger and RIH with drilling BHA
- Tagged cement at ~11,600'
- Kicked off using geo-pilot at 11,700' with poor cement plug (2.25 deg/100' to 10 deg)

- Drill to 13,100'
- Top set pressure sands with 13-5/8" casing





Performance



Questions