10/13/99

Joe Hickey, Bob Mueller, CalEnergy present

Well had been bled earlier. Halliburton rigged up
choked wellhead pressure - 1,000 psi. Shut off to bleed over
at 2:50 pm 400 psi
3:05 pm 325 psi (Note: installed 2nd gate valve
downstream of kill line valve to bleed through so not to cut kill valve)
3:26 pm 309 psi
3:40 pm 262 psi

Mostly CO2, pipes coated with ice n 5-10 ppm H2S.
Decided to try to build hydrostatic head, so shut in and tested BOPs. Pipe rams lost 50 psi in
20 minutes (1005 - 955). Tried to pressure up blind rams. Leaking n/p psi/142 seconds. Tightened fittings - same
leak-off rate. Blown o ring in BOP/wellhead coupling. Replaced -
still leaked. Some leakage around lower coupling/wellhead
flange joint. Took coupling arip off, cleaned and
faced. At that point, gas was building up
then master valve (leak - possible leak) responsible
for test failure. Had them remove coupling on
top of flange above blind rams. Now blind rams
open to atmosphere and leaks thru rams
would be visible. Pressured up to 1100 psi. Blind
rams did not leak.

Established circulation, ran in hole to 4951
and pumped 11 bbls of API-7
class 15, 40% 502, 65% CFR3, 1 CP - 3000

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Wellhead pressure was 905 psi after sitting overnight.
Tagged plug at 8:30 am at 4894.67 up into
7½" (4000'). We agreed that instead of
putting additional 100' on plug 1, mud hole
and cm across 7½' 9½" lap at 4180, and put
extra cm on top (because plug 1 inside 7½"
wouldn't be able to squeeze more into open
of hole when 9½' painted). Plug 2 will
be from 3740 - 4307 (540'). Successful tag
will be at least 3890' (440' plug). Pumped 23½ bbls 9½' 3400
mud.

Pumped 48 bbls cm CIP 10:50 am. Tagged plug
at 3816 (3:10 pm) 4000#. 491 foot plug.
(Class 6, 40% 502, 65% CFR3)
10/14/99 (continued)

Pumped 289 bbls 9/4 30 vs mud. Tried bleeding off pressure

- 5:35 pm 985 psi
- 5:45 pm 525 psi
- 6:08 pm 350 psi
- 6:14 pm 455 psi (shut in about 6:10 pm)

Pumped 19 bbls Class C, 40% SIO2, 165% CCA 3 cm
1708 - 1860, CIP 7:20 pm

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256 psi shut-in started to bleed at 9:40 am
160 psi @ 9:55 then shut in
171 psi @ 10:00
181 psi @ 10:05

Rill and tagged flag #3 @ 1648' (4000 ft) @ 10:50 am
Bled psi from 292 psi @ 10:55 am to 22 psi @ 11:10 am.
Gas and cold water coming out of blodie line.

Pumped 466 bbls 9/6 30 vs mud 1640 - 1040
Pumped 58 bbls cm from 1040 - 627 CIP 12:45 pm
(Class G cm, 40% SIO2, 165% CCA - 3 1/2% Calc in lead slurry (first 100 bbls)). Well shut in. Pressure dropped from 1000 psi to 380 psi while WOC. About 3:30 pm
Tagged very soft cm @ 648', WOC. At
5:40 pm 219 psi well had started bleeding off.
Only out gas valve connected to 13 3/8 x 20 1/2 casing annulus to see if pressure in annulus. But value on gas flange no pressure in annulus (used two different gauges). Blooie line stopped flowing.
Wellhead pressure 0 psi. Pressured up 13 3/8 to 185 psi to see if 13 3/8 x 20 annulus. Pressured up, 0 psi.
No communication between 13 3/8 + 20". Pressure only dropped 3 psi in 1/2 minutes.

Pumped 60 bbls of calculated 96 bbls cm in hole before cm started to get restricted flow. Had to stop and...
10/15/99 continued

'Pump remaining 16 bbls in reserve pit. CIP 8:45 p.m. Will test and finish CM job on 10/16.
(Class 6, 40% silica flour, 65% CR3)

10/16/99

9:56 am opened gate valve (with water). No pressure. Tried to pressure test plug. Top 3" gate valve leaking closed 1st tighter. Tested at 600 psi. Leaked to 400 psi in about 1½ minutes. Rill and tagged plug at 156' w/ 3000 psi.

Pumped 26 bbls 15.6' avg. Class 6 cm, 40% SiO2, 65% CR3 and 3% CaCl2. Good cement returns to surface. CIP 11:35 a.m. Removed wellhead at 1:05 p.m. No fallback. Water drained from wellhead and stood at top of expansion spoil. No bubbles or leaks.

Alani Lemontrech