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API # 30-045-09624



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New Mexico Oil Conservation Division
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Reference: Story B LS 4 – venting of well reported on 3/2/05

Denny,

Shirley Mcnall reported the above problem to BP and NMOCD on March 2, 2005. A similar problem had been reported in January. In January we replaced a bad plunger that was causing it to stick in the well head and not drop down hole. This would cause the well to vent to try and lift a plunger that was already surfaced. After visiting the well a second time we found a problem in our plunger lift system. We have taken measures to permanently address the problem.

First a little information about what caused the problem. The plunger lift program working on this well will vent the well if the plunger does not come to surface when it is trying to unload the well. The well will vent just long enough for the plunger to surface. The problem occurs when the plunger doesn't surface, the well will continue to vent until the plunger arrives or for 30 minutes whichever happens first. On the day this problem was reported, the device used to sense if the plunger had surface, failed to sense the plunger had surfaced. So the well vented for a full 30 minutes 4 times that night.

To correct the problem, we first replace a faulty plunger sensor. Then we changed the vent minute override to only allow the well to vent for 5 minutes maximum each time a plunger doesn't arrive and no more than 90 minutes per day. After a well vents for five minutes, it shuts in for about 30 minutes before it will try to run the plunger again.

This action not only cured the venting problem that day, but it will lessen vent time in the future. I have attached a well log for the Story well and it shows since the 2nd of March, very little vent time has occurred.

If you have any further questions, please let me know.

Jerry Van Riper
BP – Field Foreman
505 326-9214

STOREY B LS 004-MV Meter Number = 71514 Rtu = R2287

Date	Avg Line Pressure	Avg Tubing Pressure	Avg Casing Pressure	Vent Time	
1/25/2005	104	134	168	90	
1/26/2005	106	141	168	90	— Plunger stuck in
1/27/2005	104	162	168	1	lubricator
1/28/2005	105	174	170	0	
1/29/2005	107	126	170	1	
1/30/2005	107	140	170	2	
1/31/2005	102	164	169	0	
2/1/2005	106	160	169	0	
2/2/2005	106	154	169	0	
2/3/2005	106	138	168	0	
2/4/2005	108	124	169	0	
2/5/2005	105	138	169	0	
2/6/2005	109	136	170	1	
2/7/2005	109	138	170	1	
2/8/2005	105	153	169	0	
2/9/2005	103	122	168	15	
2/10/2005	109	131	168	0	
2/11/2005	112	136	168	1	
2/12/2005	108	134	169	2	
2/13/2005	103	131	170	6	
2/14/2005	100	134	171	5	
2/15/2005	105	122	171	5	
2/16/2005	106	142	172	2	
2/17/2005	106	126	172	11	
2/18/2005	108	130	173	10	
2/19/2005	108	129	172	8	
2/20/2005	100	143	163	11	
2/21/2005	104	124	157	3	
2/22/2005	106	128	157	5	
2/23/2005	105	124	156	28	
2/24/2005	105	116	154	19	
2/25/2005	103	136	157	9	
2/26/2005	107	118	156	19	
2/27/2005	105	132	155	8	
2/28/2005	104	114	154	71	
3/1/2005	108	133	152	4	
3/2/2005	105	114	155	112	— Plunger sensor malfunction
3/3/2005	103	106	156	77	
3/4/2005	109	132	151	2	
3/5/2005	110	121	150	0	
3/6/2005	108	121	151	0	
3/7/2005	104	133	153	0	
3/8/2005	108	142	155	0	
3/9/2005	109	128	154	0	
3/10/2005	111	150	156	0	
3/11/2005	116	134	154	0	
3/12/2005	111	140	155	0	
3/13/2005	107	125	154	0	
3/14/2005	107	122	153	0	

3/15/2005	110	141	155	0
3/16/2005	112	129	156	0
3/17/2005	111	129	155	0
3/18/2005	108	127	156	0
3/19/2005	106	134	156	0
3/20/2005	105	129	156	0
3/21/2005	102	135	157	0