

Cascade Creek 3

From: Cascade Creek 3 **Sent:** Sun 10/30/2005 4:37 PM
To: 'Jaime.Adkins@state.co.us'
Cc: Litzinger, Les; White, Paul; Mulkey, Doug
Subject:
Attachments:

Jaime,

We are planning on Plugging & Abandoning our Cascade Creek 603-23-32 well (Patterson Rig 143) due to hole problems. We T.D.'d the well at a depth of 9450' on 10-20-05.

On our clean out run to run casing we had to ream ream back to bottom from 2980' to 5767' in 2 days. We made a trip to change our bit and BHA and had to ream from 4742' to 9450' which took 134.5 hours (5.6 days). During trip out of hole pipe stuck at 4408'. We spent the next 24.5 hours circulating while to attempt to work and jar pipe free, pipe parted at 2811'. Fish left in hole is bit, mud motor, 16 drill collars, drilling jars and 3 drill collars (652.95') with 19 joints of 4-1/2" drill pipe with 4-1/2" of top joint broken off (594') total length 1247' with Top of Fish at 2811' and bottom of Fish at 4048'. The bottom of the 4-1/2' stub recovered had a severe outward tear on one side with a significant bent to the inside directly across from it, the joint on top of the stub recovered had 2 bends in the pipe 1 appx. 10' from the top and the other appx. 10' from the bottom. With the condition of the pipe and the hole problems we have had indicates that the probability of fishing this out of the hole would be almost nil. As we had no real problems coming out of the hole to this point and did have circulation up until the pipe parted we have concluded the best opportunity to successfully cement this well bore off would be right away while the bore hole conditions are still in relatively good condition.

Attached is a proposal for abandoning this well prepared by our Drilling Engineer Les Litzinger. The proposal was modeled after an approved Abandonment plan that we done on a well drilled earlier this year. This plan is to include the setting of a cast iron cement retainer between the parasite sub and the float collar and cementing from +/- 2600' with cement volumes calculated with 75% excess to cover from 2600' to the top of the Williams Fork at 6673'.

Pleased review and contact either myself or Les as soon as you can please.

Thank You
Doug Mulkey
970-623-3603 Office
970-985-0417 Cell
970-985-5094 Wellsite Cell.

Les Litzinger
970-263-3604 Office
970-985-0427 Cell

Cascade Creek 603-23-32 Planned Volumes

Surface Casing	9.825 in OD	8.921 in ID
Setting Depth	2691 ft	
Retainer +/-	2670 ft	
Fish 4 1/2" DP	19 jts	590 ft
Fish 6 3/8" DC	18 jts	563 ft

Metal Displacement	
Drill Pipe	
4.5 x 3.9 in	11.53 bbls
Drill Collars	
6.375 x 2.375 in	37.56 bbls
Total Metal Displacement	
	49.09 bbls

Hole Volume	8.75 in Hole Size		
	Depth	Hole Volume	Less Metal Displacement
Wasatch	4829 ft	160.58 bbls	123.02 bbls
Fort Union	5130 ft	182.96 bbls	145.41 bbls
Mesaverde	6448 ft	280.99 bbls	243.44 bbls
Williams Fork	6637 ft	295.05 bbls	257.49 bbls

Cement On Location				
Lead Cement	700 sks	yeild	1.82 ft ³ /sk	1274 ft ³
Tail Cement	910 sks	yeild	1.46 ft ³ /sk	1328.6 ft ³
Total	1610 sks			2602.6 ft ³
Lead Cement	226.90 bbls			
Tail Cement	236.62 bbls			
Total	463.52 bbls			

Hole Volume to Top Of Williams Fork	257.49 bbls
Amount of excess	80%
Total Cement to pump	463.52 bbls

Actual Volumes Pumped Through Retainer				
Lead Cement	670.08 sks	yeild	1.82 ft ³ /sk	1219.54 ft ³
Tail Cement	909.91 sks	yeild	1.46 ft ³ /sk	1328.47 ft ³
Total	1579.99 sks			2548.01 ft ³
Lead Cement	217.20 bbls			
Tail Cement	236.60 bbls			
Total	453.80 bbls			

Hole Volume to Top Of Williams Fork	257.49 bbls
Amount of excess	76%
Total Cement to pump	453.80 bbls

Parasite Volume		
Parasite String	1.9 in OD	1.1 in ID
Setting Depth	2575 ft	
Calculated Volume	3.03 bbls	
Actual Volume Pumped	3.00 bbls	

Top Plug in 9.825 Surface Casing		
Surface Casing	9.825 in OD	8.921 in ID
Needed	50 ft	
Calculated Volume	3.87	
Pump Volume	4.00	