



MAIL ROOM
SALLE DE COURIER

2011 OCT 20 P 1:14

NEB/ONE

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To: Dana Roney
Lone Pine Resources Canada Ltd
2500, 645 - 7th Ave, S.W
Calgary, AB, T2P 4G8

Re: Production Logging Report for CDN Forest S. Pointed Mountain L-68

Please find attached the Production Logging report from CDN Forest S. Pointed Mountain L-68, performed on October 7th, 2011 by Boreal E-Line.

The purpose of the job was to identify production from four sets of perforations flowing through two frac ports. The production log determined that 83% of production is coming from the perforation intervals 3805.0 – 3810.0 mKB & 3784.0 – 3789.0 mKB; the rest of 17% of production is coming from the perforation interval 3365.0 – 3370.0 mKB.

The production log determined that perforation interval at 3351.0 – 3356.0 mKB does not appear to be producing at this time; the two sets at the bottom of the tubing (3935.0 – 3940.0 mKB & 3945.0 – 3953.0 mKB) are not producing at this time (station stop shows zero flow from below), which could be due to a frac ball still present in the lowest packer.

Bonnett's would like to thank you for this opportunity to run the logs for Lone Pine Resources. If you have any questions, please call us.

Sincerely,

Report prepared by: Zhaoli Wu.
Technical analyst
(403)264-3010 ext. 219

Report reviewed by: Simon Corti, P.Eng
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Procedure:

Boreal E-Line – a division of Bonnett's Energy Corp., rigged in the hole on October 7th, 2011 with a Production Logging tool string with GR/CCL, Pressure, Temperature and spinner sensors. Three down passes and three up passes at 20, 30, 40 m/min cable speed were recorded from 3250 mKB to 3852 mKB under flowing condition. Then the well was shut in and three shut in passes (30/60/90 minute) were done from 3250 mKB to 3852 mKB. A list of the files acquired is:

Oct 7, 2011	Interval	Direction	Line Speed	Pressure(kPa)	Gas Prod (E ³ m ³ /d)
Flowing	3250 – 3852 mKB	Down	10 m/min	324	1.18
Flowing	3250 – 3852 mKB	Up	10 m/min	324	1.18
Flowing	3250 – 3852 mKB	Down	20 m/min	412	0.48
Flowing	3250 – 3852 mKB	Up	20 m/min	412	0.48
Flowing	3250 – 3852 mKB	Down	30 m/min	256	0.41
Flowing	3250 – 3852 mKB	Up	30 m/min	256	0.41
Shut-In	3250 – 3852 mKB	Down	20 m/min		0
Shut-In	3250 – 3852 mKB	Down	20 m/min		0
Shut-In	3250 – 3852 mKB	Down	20 m/min		0

Results:

Production:

From the surface data, the production is gas ($1.18E^3 m^3/d$) with water ($1.6 m^3/d$) on October 7, 2011.

Frac Port	Perforations/Frac Ports (mKB)	Fluid	Gas Contribution	Gas Prod. E ³ m ³ /d	Cum Gas Prod. E ³ m ³ /d
1	3351.0 – 3356.0	No Apparent	0%	0.0	0.0
1	3365.0 – 3370.0	Gas	17%	0.20	1.18
2	3784.0 – 3789.0 3805.0 – 3810.0	Gas	83%	0.98	0.98
3	3935.0 – 3940.0 3945.0 – 3953.0	No Apparent	0%	0.0	0.0

From the spinner response (both down passes and station stops) it appears there is inflow from the frac ports #1 & #2; most of the response is from the second frac port at 3811.17mKB (perforations at 3805.0 – 3810.0 mKB & 3784.0 – 3789.0 mKB). From the spinner response of down pass at 10m/min cable speed, it is calculated that around 83% of production is coming from the second frac port (3805.0 – 3810.0 mKB & 3784.0 – 3789.0 mKB), the rest of 17% of production is coming from the top frac port (3365.0 – 3370.0 mKB). The spinner response at station stop 3825.0 mKB is 0 rps, indicating that there is no inflow from the lower perforation intervals 3935.0 – 3940.0 mKB & 3945.0 – 3953.0 mKB

From the cooling traces across the perforations zones, it appears that a large amount of gas is coming from the two perforations at 3805.0 – 3810.0 mKB & 3784.0 – 3789.0 mKB (large cooling effect across the zones). The temperature data shows slightly cooling effect over the perforation interval (3365.0 – 3370.0 mKB), indicating gas is entering into wellbore from this perforation interval; temperature data does not show any cooling effect at perforation interval (3351.0 – 3356.0 mKB) which would mean no gas is entering into wellbore from perforation interval 3351.0 – 3356.0 mKB.

