

**Barataria Field, Jefferson Ph. LA  
Paraffin Removal – April 4, 2014**

**Well Status** – 2 3/8” tbg., ID = 1.995 (50mm). Producing on gas lift ~16 bopd, ~450 bwpd, ~20 Mcfd (gas lift cycling ~420 Mcfd). FTP = 150 psi, CP = 780 psi. Profile nipple at 209’ with ID = 1.875” (48 mm).

**Wireline Unit** – Archer, skid mount, ~6,000’ of 5/16” armored, single core, 0.158 ppf.

**The purpose of works** – Paraffin removal to ~3300’ (~1000 m) then run 1.843” (46.8 mm) gauge ring to ensure/verify paraffin removal.

Action	Parameters					Notes
	Transformer Output (input 110 V)		Line Speed (fpm)	Depth Interval (ft)	Operation time	
	V <sub>LOAD</sub> (volts)	I <sub>LOAD</sub> (amps)				
Arrive on location, setup transformer in unit cab, make electrical connections, and connect tool and sinker bars (2 – 92 lbs ea.).					8.30-9.01	Total weight of string – 122 lbs. (55.3 kg)
Check all electrical connections & test tool	360	2.3	0	0	9.02	Tool hot to the touch almost immediately
Mount lubricator on wellhead and equalize pressure	0	.0	0	0	9.03-9.08	<b>Shut the well in.</b>
Provide instructions to the unit operator (Archer)	0	.0	0	0	9.08-9.18	
Test tool under pressure	360	2.5	0	0	9.20-9.21	Observed normal current load
Several up & down passes (“yo-yoing”)	450	2.9	3-5	0-15	9.22-9.30	Low speed. A lot of paraffin
	540	2.8	3-7	15-21	9.30-9.32	Low speed. A lot of paraffin
	540	3.0	up to 15	21-72	9.32-9.39	Low speed. A lot of paraffin
Pull back to lubricator & flow well.	0	.0	0	0	9.40-9.59	<b>Flow well for 19 minutes then shut-in.</b>
Yo-Yoing	540	2.8	45	0-135	10.02-10.07	Line speed increased on second pass.
	540	2.85	42	135-201	10.07-10.09	Line speed increased.
	540	2.9	20	201-207	10.09-10.11	Reduce speed approaching profile nipple at 209’.
	540	2.7	30-35	207-300	10.11-10.13	Line speed increased.
	540	2.6	35	300-240	10.13-10.15	
Attempt to run in at maximum speed	540	2.4	57	240-300	10.16	Set max. speed at 100 fpm. Minor paraffin build-up limiting speed.

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	V <sub>LOAD</sub> (volts)	I <sub>LOAD</sub> (amps)				
Yo-Yoing	600	2.8	35-36	300-490	10.17-10.22	In places speed decreases
	600	2.8	35	490-375	10.23-10.25	
	600	2.7	94	375-490	10.26	Approaching max. line speed
	600	2.45	35-40	450-1050	10.42	Deposits of paraffin are insignificant
Put well on production & continue yo-yoing	600	2.45	35	1150-1080	10.42-10.44	<b>Flow well for remainder of job.</b> Fluid flow lowered tool temp which dropped current load from 2.4 amps to 1.9 amps for less than 1 minute.
Yo-yoing	600	2.3	35	1080-1690	10.45-10.57	Deposits of paraffin are insignificant.
	600	2.35	45	1690-2525	10.57-11.30	Deposits of paraffin are minimal
	600	2.5	50	2525-2950		
	600	2.6	50	2950-3280		
Pull out of the well to lubricator.	600	2.6	50	3280-246	11.30-12.25	
	600	2.8	35	246-205	12.25-12.26	Decrease in speed when approaching to a nipple
	600	2.9	10	205-0	12.26-12.49	
Rig down and remove tools	0	.0	0	0	12.49-12.57	Tool completely clean

April 06, 2014