

## CLEAN-UP / TEST FORMULIER

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)

Test Company : ADH

Test Supervisor : Bas Pittens

Hoofdverantwoordelijke ter plekke : Bas Pittens

Pump pressure (PISA 154) = P in production line between wellhead producer and degasser

Injection pressure (PISA 253) = P in injection line between degasser and wellhead injector

Water temperature = T at 650 m in P/T sensor of producer

Injection temperature = T at 300 m in P/T sensor of injector

Datum		Flow	Pump	Pump press.	Water	Water	Water	Gas	Gas	Gas/Water	Ge-inject.	Injectie	Injectie
		Period	frequentie	(PISA 154)	Prod snelh.	Cumm.prod	Temp	Prod snelh	Cumm.prod	Ratio	water	druk	Temp
Van	Tot	hr	Hz	bar	m3/hr	m3	°C	m3/hr	m3	m3/m3	m3	bar	°C
12-3-2012	13-3-2012	0											
14-3 9.23	14-3 11.08	1,5	30-33 Hz	5-6	max 30	54	41	0	0*	nvt	54	4-5	16
	* 53 m³ gasflow was measured but this was N2 used for pressurizing the system												
15-3 10.00	15-3 12.00	2	0**	nvt	-	21 (from annular injector into buffer and transported to ATM)							
	** overpressure of fresh water (3,5 bar) in injector was led off via the annulus directly in a container until a pressure in the annular of 0.3 bar was reached												
15-3 14.30	15-3 14.50	20 min	34	5-6	20-40	10	45	0	0*	nvt	10***	4-5	18
	*** injection via annulus injector, flow stopped because of extreme clogging filter												
15-3 15.20	15-3 16.15	1	36-39 Hz	3-4	55	50	56	ca. 100	108****	****	not injected but buffered and transport to ATM		
	**** Partly reservoir gas and partly N2 used for pressurizing the system, burner has burned shortly, so methane was produced.												
16-3 13.15	16-3 15.50	2.5	39-40	3-4	54	132	70 (end)	30-75	130	1	not injected but buffered and transport to ATM		
19-3	19-3	0											

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		Period	frequentie	(PISA 154)	Prod snelh.	Cumm.prod	Temp	Prod snelh	Cumm.prod	Ratio	water	druk	Temp
Van	Tot	hr	Hz	bar	m3/hr	m3	°C	m3/hr	m3	m3/m3	m3	bar	°C
12-3-2012	13-3-2012	0											
14-3 9.23	14-3 11.08	1,5	30-33 Hz	5-6	max 30	54	41	0	0*	nvt	54	4-5	16
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15-3 15.20	15-3 16.15	1	36-39 Hz	3-4	55	50	56	ca. 100	108****	****	not injected but buffered and transport to ATM		
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Injection temperature = T at 300 m in P/T sensor of injector

Datum		Flow Period	Pump frequentie	Pump press. (PISA 154)	Water Prod snelh.	Water Cumm.prod	Water Temp	Gas Prod snelh	Gas Cumm.prod	Gas/Water Ratio	Ge-inject. water	Injectie druk	Injectie Temp
Van	Tot	hr	Hz	bar	m3/hr	m3	°C	m3/hr	m3	m3/m3	m3	bar	°C
16-5 11.00	16-5 18.00	7 h*	gaslift N2	n.v.t.	ca. 90 m³/h	220	60 (end)	**	**	**	***		
	* PRODUCTION FROM INJECTOR VIA GASLIFTING! production was not constant, on/off, but if production than about 90 m³/h												
	** gasproduction can not be measured because of co-production of N2, with handheld gassensors no methane was found on working site												
	*** no injection, circa 2x30m³ has been transported to ATM, rest is buffered in storage tanks												
21-5 12.00	21-5 17.45	4h	nvt	4-6^^	30-50 ^	nvt ^	22	n.v.t.	n.v.t.	n.v.t.	127^^	13,7	22
	^ Niet uit producer gepompt, maar uit buffercontainers				^^^ pump pressure at surface near inlet annular								
	^^ 42 m³ extra has been transported to ATM												
22-5 13.30	22-5 19.30	6h	gaslift N2	nvt	70-90	203	57 (end)	**	**	**	#	n.v.t.	n.v.t.
	# no injection, all was buffered in storage tanks												
23-5 8.30	23-5 11.30	3h	nvt	3^^	63^	nvt ^	32	n.v.t.	n.v.t.	n.v.t.	184##	10,3	32
	## 23 m³ has been transported to ATM												
23-5 15.00	23-5 17.30	2.5h	gaslift N2	nvt	65-35	79	42 (end)	**	**	**	###		
	### no injection, all is buffered in storage tanks												
24-5 8.00	24-5 18.00	no production or injection, defect N2 booster											
25-5 11.00	25-5 13.00	2h	gaslift N2	nvt	36-70	130	35 (end)	**	**	**	###		
25-5 15.00	25-5 16.30	1,5h	nvt	3,5-5,5^^	60-80	nvt ^	34	n.v.t.	n.v.t.	n.v.t.	90	12,6	34
29-5 12.40	29-5 14.00	1,5h	nvt	n.t.b.	ca. 5 m³/h	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5+	minimaal	22
	+ 5 m³ met een oplossing van Ryzolin 34 1% is via tubing in put gebracht												
29-5 14.00	29-5 15.35	1,5h	nvt	0,9-2,6^^	40-50	nvt ^	21	n.v.t.	n.v.t.	n.v.t.	67,4	11,3	21
29-5 17.00	29-5 18.30	1,5h	gaslift N2	nvt	50-60	57	29 (end)	**	**	**	###		
29-5 18.45	29-5 20.10	1,5h	nvt	2,5-3,9^^	35	nvt ^	23	n.v.t.	n.v.t.	n.v.t.	51	11,2	23
29-5 20.00	29-5 21.40	1,5h	gaslift N2	nvt	50	45	29 (end)	**	**	**	###		

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Van	Tot	hr	Hz	bar	m3/hr	m3	°C	m3/hr	m3	m3/m3	m3	bar	°C
16-5 11.00	16-5 18.00	7 h*	gaslift N2	n.v.t.	ca. 90 m³/h	220	60 (end)	**	**	**	***		
		* PRODUCTION FROM INJECTOR VIA GASLIFTING! production was not constant, on/off, but if production than about 90 m³/h											
		** gasproduction can not be measured because of co-production of N2, with handheld gassensors no methane was found on working site											
		*** no injection, circa 2x30m³ has been transported to ATM, rest is buffered in storage tanks											
21-5 12.00	21-5 17.45	4h	injectie	4-6^^	30-50 ^	nvt ^	22	n.v.t.	n.v.t.	n.v.t.	127^^	13,7	22
		^ Niet uit producer gepompt, maar uit buffercontainers											
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22-5 13.30	22-5 19.30	6h	gaslift N2	nvt	70-90	203	57 (end)	**	**	**	#	n.v.t.	n.v.t.
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		## 23 m³ has been transported to ATM											
23-5 15.00	23-5 17.30	2.5h	gaslift N2	nvt	65-35	79	42 (end)	**	**	**	###		
		### no injection, all is buffered in storage tanks											
24-5 8.00	24-5 18.00	no production or injection, defect N2 booster											
25-5 11.00	25-5 13.00	2h	gaslift N2	nvt	36-70	130	35 (end)	**	**	**	###		
25-5 15.00	25-5 16.30	1,5h	injectie	3,5-5,5^^	60-80	nvt ^	34	n.v.t.	n.v.t.	n.v.t.	90	12,6	34
29-5 12.40	29-5 14.00	1,5h	injectie	minimaal	ca. 5 m³/h	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@	minimaal	22
		@ 5 m³ met een oplossing van Ryzolin 34 10% is via tubing in put gebracht											
29-5 14.00	29-5 15.35	1,5h	injectie	0,9-2,6^^	40-50	nvt ^	21	n.v.t.	n.v.t.	n.v.t.	67,4	11,3	21
29-5 17.00	29-5 18.30	1,5h	gaslift N2	nvt	50-60	57	29 (end)	**	**	**	###		
29-5 18.45	29-5 20.10	1,5h	injectie	2,5-3,9^^	35	nvt ^	23	n.v.t.	n.v.t.	n.v.t.	51	11,2	23
29-5 20.00	29-5 21.40	1,5h	gaslift N2	nvt	50	45	29 (end)	**	**	**	###		
30-5 8.30	30-5 10.00	1,5h	gaslift N2	nvt	40-60	50	40(end)	**	**	**	###		
30-5 10.15	30-5 10.30	15min	injectie	1^^	70	nvt ^	38-28	n.v.t.	n.v.t.	n.v.t.	13	n.g.	38-28
30-5 10.40	30-5 11.30	1h	injectie	minimaal	ca. 5 m³/h	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@@	minimaal	22
		@@ 5 m³ met een oplossing van Ryzolin 24 1% is via tubing in put gebracht											
30-5 11.30	30-5 13.00	1,5h	injectie	2,5-5^^	55-36 (end)	nvt ^	23-24	n.v.t.	n.v.t.	n.v.t.	67,4	11,1	23-24
30-5 14.30	29-5 17.30	3h	gaslift N2	nvt	40-65	137	53 (end)	**	**	**	###		
30-5 17.40	30-5 19.30	2h	injectie	ca. 4^^	55-36 (end)	nvt ^	51-30	n.v.t.	n.v.t.	n.v.t.	88	11,2	51-30

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	* PRODUCTION FROM INJECTOR VIA GASLIFTING! production was not constant, on/off, but if production than about 90 m³/h												
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21-5 12.00	21-5 17.45	4h	injectie	4-6 <sup>^^</sup>	30-50 ^	nvt ^	22	n.v.t.	n.v.t.	n.v.t.	127 <sup>^^</sup>	13,7	22
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25-5 15.00	25-5 16.30	1,5h	injectie	3,5-5,5 <sup>^^</sup>	60-80	nvt ^	34	n.v.t.	n.v.t.	n.v.t.	90	12,6	34
29-5 12.40	29-5 14.00	1,5h	injectie	minimaal	ca. 5 m³/h	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@	minimaal	22
	@ 5 m³ met een oplossing van Ryzolin 34 10% is via tubing in put gebracht												
29-5 14.00	29-5 15.35	1,5h	injectie	0,9-2,6 <sup>^^</sup>	40-50	nvt ^	21	n.v.t.	n.v.t.	n.v.t.	67,4	11,3	21
29-5 17.00	29-5 18.30	1,5h	gaslift N2	nvt	50-60	57	29 (end)	**	**	**	###		
29-5 18.45	29-5 20.10	1,5h	injectie	2,5-3,9 <sup>^^</sup>	35	nvt ^	23	n.v.t.	n.v.t.	n.v.t.	51	11,2	23
29-5 20.00	29-5 21.40	1,5h	gaslift N2	nvt	50	45	29 (end)	**	**	**	###		
30-5 8.30	30-5 10.00	1,5h	gaslift N2	nvt	40-60	50	40(end)	**	**	**	###		
30-5 10.15	30-5 10.30	15min	injectie	1 <sup>^^</sup>	70	nvt ^	38-28	n.v.t.	n.v.t.	n.v.t.	13	n.g.	38-28
30-5 10.40	30-5 11.30	1h	injectie	minimaal	ca. 5 m³/h	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@@	minimaal	22
	@ 5 m³ met een oplossing van Ryzolin 24 1% is via tubing in put gebracht												
30-5 11.30	30-5 13.00	1,5h	injectie	2,5-5 <sup>^^</sup>	55-36 (end)	nvt ^	23-24	n.v.t.	n.v.t.	n.v.t.	67,4	11,1	23-24
30-5 14.30	29-5 17.30	3h	gaslift N2	nvt	40-65	137	53 (end)	**	**	**	###		
30-5 17.40	30-5 19.30	2h	injectie	ca. 4 <sup>^^</sup>	55-36 (end)	nvt ^	51-30	n.v.t.	n.v.t.	n.v.t.	88	11,2	51-30
31-5 9.00	31-5 10.00	1	injectie	minimaal	5	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@@@	minimaal	22
	@@@ 5m³ Ryzolin 24 5% ingebracht via annulus												
31-5 10.00	31-5 12.00	2	injectie	5,6 <sup>^^</sup>	30-70	nvt ^	22	n.v.t.	n.v.t.	n.v.t.	67,4	13,3	22
31-5 14.30	31-5 17.45	3h15	gaslift N2	nvt	45-72	154	52 (end)	**	**	**	###		
1-6 8.30	1-6 14.30	6	injectie	5,8 <sup>^^</sup>	45-30	nvt ^	32	n.v.t.	n.v.t.	n.v.t.	197	14,1	32

## CLEAN-UP / TEST FORMULIER

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)  
 Test Company : ADH  
 Test Supervisor : Bas Pittens  
 Hoofdverantwoordelijke ter plekke : Bas Pittens

Pump pressure (PISA 154) = P in production line between wellhead producer and degasser  
 Injection pressure (PISA 253) = P in injection line between degasser and wellhead injector  
 Water temperature = T at 650 m in P/T sensor of producer  
 Injection temperature = T at 300 m in P/T sensor of injector

Datum		Flow Period	Pump frequentie	Pump press. (PISA 154)	Water Prod snelh.	Water Cumm.prod	Water Temp	Gas Prod snelh	Gas Cumm.prod	Gas/Water Ratio	Ge-inject. water	Injectie druk	Injectie Temp
Van	Tot	hr	Hz	bar	m3/hr	m3	°C	m3/hr	m3	m3/m3	m3	bar	°C
16-5 11.00	16-5 18.00	7 h*	gaslift N2	n.v.t.	ca. 90 m³/h	220	60 (end)	**	**	**	***		
	* PRODUCTION FROM INJECTOR VIA GASLIFTING! production was not constant, on/off, but if production than about 90 m³/h												
	** gasproduction can not be measured because of co-production of N2, with handheld gassensors no methane was found on working site												
	*** no injection, circa 2x30m³ has been transported to ATM, rest is buffered in storage tanks												
21-5 12.00	21-5 17.45	4h	injectie	4-6 <sup>^^</sup>	30-50 ^	nvt ^	22	n.v.t.	n.v.t.	n.v.t.	127 <sup>^^</sup>	13,7	22
	^ Niet uit producer gepompt, maar uit buffercontainers				<sup>^^</sup> pump pressure at surface near inlet annular								
	<sup>^^</sup> 42 m³ extra has been transported to ATM												
22-5 13.30	22-5 19.30	6h	gaslift N2	nvt	70-90	203	57 (end)	**	**	**	#	n.v.t.	n.v.t.
	# no injection, all was buffered in storage tanks												
23-5 8.30	23-5 11.30	3h	injectie	3 <sup>^^</sup>	63 <sup>^</sup>	nvt ^	32	n.v.t.	n.v.t.	n.v.t.	184 <sup>##</sup>	10,3	32
	<sup>##</sup> 23 m³ has been transported to ATM												
23-5 15.00	23-5 17.30	2.5h	gaslift N2	nvt	65-35	79	42 (end)	**	**	**	###		
	<sup>###</sup> no injection, all is buffered in storage tanks												
24-5 8.00	24-5 18.00	no production or injection, defect N2 booster											
25-5 11.00	25-5 13.00	2h	gaslift N2	nvt	36-70	130	35 (end)	**	**	**	###		
25-5 15.00	25-5 16.30	1,5h	injectie	3,5-5,5 <sup>^^</sup>	60-80	nvt ^	34	n.v.t.	n.v.t.	n.v.t.	90	12,6	34
29-5 12.40	29-5 14.00	1,5h	injectie	minimaal	ca. 5 m³/h	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@	minimaal	22
	@ 5 m³ met een oplossing van Ryzolin 34 10% is via tubing in put gebracht												
29-5 14.00	29-5 15.35	1,5h	injectie	0,9-2,6 <sup>^^</sup>	40-50	nvt ^	21	n.v.t.	n.v.t.	n.v.t.	67,4	11,3	21
29-5 17.00	29-5 18.30	1,5h	gaslift N2	nvt	50-60	57	29 (end)	**	**	**	###		
29-5 18.45	29-5 20.10	1,5h	injectie	2,5-3,9 <sup>^^</sup>	35	nvt ^	23	n.v.t.	n.v.t.	n.v.t.	51	11,2	23
29-5 20.00	29-5 21.40	1,5h	gaslift N2	nvt	50	45	29 (end)	**	**	**	###		
30-5 8.30	30-5 10.00	1,5h	gaslift N2	nvt	40-60	50	40(end)	**	**	**	###		
30-5 10.15	30-5 10.30	15min	injectie	1 <sup>^^</sup>	70	nvt ^	38-28	n.v.t.	n.v.t.	n.v.t.	13	n.g.	38-28
30-5 10.40	30-5 11.30	1h	injectie	minimaal	ca. 5 m³/h	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@@	minimaal	22
	@ 5 m³ met een oplossing van Ryzolin 24 1% is via tubing in put gebracht												
30-5 11.30	30-5 13.00	1,5h	injectie	2,5-5 <sup>^^</sup>	55-36 (end)	nvt ^	23-24	n.v.t.	n.v.t.	n.v.t.	67,4	11,1	23-24
30-5 14.30	29-5 17.30	3h	gaslift N2	nvt	40-65	137	53 (end)	**	**	**	###		
30-5 17.40	30-5 19.30	2h	injectie	ca. 4 <sup>^^</sup>	55-36 (end)	nvt ^	51-30	n.v.t.	n.v.t.	n.v.t.	88	11,2	51-30
31-5 9.00	31-5 10.00	1	injectie	minimaal	5	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@@@	minimaal	22
	@@@ 5m³ Ryzolin 24 5% ingebracht via annulus												
31-5 10.00	31-5 12.00	2	injectie	5,6 <sup>^^</sup>	30-70	nvt ^	22	n.v.t.	n.v.t.	n.v.t.	67,4	13,9	22
31-5 14.30	31-5 17.45	3h15	gaslift N2	nvt	45-72	154	52 (end)	**	**	**	###		
1-6 8.30	1-6 14.30	6	injectie	5,8 <sup>^^</sup>	45-30	nvt ^	32	n.v.t.	n.v.t.	n.v.t.	197	13,7	32
04-06 11.00	04-06 13.00	2	gaslift N2	nvt	ca. 65	116	53 (end)	**	**	**	###		
04-06 14.00	04-06 16.30	2,5	gaslift N2	nvt	65-70	154	58(end)	**	**	**	###		
04-06 17.00	04-06 20.00	3	injectie	ca. 3-5 <sup>^^</sup>	45-35 (end)	nvt ^	44	n.v.t.	n.v.t.	n.v.t.	124	11,9	44

## CLEAN-UP / TEST FORMULIER

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)  
 Test Company : ADH  
 Test Supervisor : Bas Pittens  
 Hoofdvantwoordelijke ter plekke : Bas Pittens

Pump pressure (PISA 154) = P in production line between wellhead producer and degasser  
 Injection pressure (PISA 253) = P in injection line between degasser and wellhead injector  
 Water temperature = T at 650 m in P/T sensor of producer  
 Injection temperature = T at 300 m in P/T sensor of injector

Datum		Flow Period	Pump frequentie	Pump press. (PISA 154)	Water Prod snelh.	Water Cumm.prod	Water Temp	Gas Prod snelh	Gas Cumm.prod	Gas/Water Ratio	Ge-inject. water	Injectie druk	Injectie Temp
Van	Tot	hr	Hz	bar	m3/hr	m3	°C	m3/hr	m3	m3/m3	m3	bar	°C
16-5 11.00	16-5 18.00	7 h*	gaslift N2	n.v.t.	ca. 90 m³/h	220	60 (end)	**	**	**	***		
	* PRODUCTION FROM INJECTOR VIA GASLIFTING! production was not constant, on/off, but if production than about 90 m³/h												
	** gasproduction can not be measured because of co-production of N2, with handheld gassensors no methane was found on working site												
	*** no injection, circa 2x30m³ has been transported to ATM, rest is buffered in storage tanks												
21-5 12.00	21-5 17.45	4h	injectie	4-6 <sup>^^</sup>	30-50 ^	nvt ^	22	n.v.t.	n.v.t.	n.v.t.	127 <sup>^^</sup>	13,7	22
	^ Niet uit producer gepompt, maar uit buffercontainers				<sup>^^</sup> pump pressure at surface near inlet annular								
	<sup>^^</sup> 42 m³ extra has been transported to ATM												
22-5 13.30	22-5 19.30	6h	gaslift N2	nvt	70-90	203	57 (end)	**	**	**	#	n.v.t.	n.v.t.
	# no injection, all was buffered in storage tanks												
23-5 8.30	23-5 11.30	3h	injectie	3 <sup>^^</sup>	63 <sup>^</sup>	nvt ^	32	n.v.t.	n.v.t.	n.v.t.	184 <sup>##</sup>	10,3	32
	<sup>##</sup> 23 m³ has been transported to ATM												
23-5 15.00	23-5 17.30	2.5h	gaslift N2	nvt	65-35	79	42 (end)	**	**	**	###		
	<sup>###</sup> no injection, all is buffered in storage tanks												
24-5 8.00	24-5 18.00	no production or injection, defect N2 booster											
25-5 11.00	25-5 13.00	2h	gaslift N2	nvt	36-70	130	35 (end)	**	**	**	###		
25-5 15.00	25-5 16.30	1,5h	injectie	3,5-5,5 <sup>^^</sup>	60-80	nvt ^	34	n.v.t.	n.v.t.	n.v.t.	90	12,6	34
29-5 12.40	29-5 14.00	1,5h	injectie	minimaal	ca. 5 m³/h	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@	minimaal	22
	@ 5 m³ met een oplossing van Ryzolin 34 10% is via tubing in put gebracht												
29-5 14.00	29-5 15.35	1,5h	injectie	0,9-2,6 <sup>^^</sup>	40-50	nvt ^	21	n.v.t.	n.v.t.	n.v.t.	67,4	11,3	21
29-5 17.00	29-5 18.30	1,5h	gaslift N2	nvt	50-60	57	29 (end)	**	**	**	###		
29-5 18.45	29-5 20.10	1,5h	injectie	2,5-3,9 <sup>^^</sup>	35	nvt ^	23	n.v.t.	n.v.t.	n.v.t.	51	11,2	23
29-5 20.00	29-5 21.40	1,5h	gaslift N2	nvt	50	45	29 (end)	**	**	**	###		
30-5 8.30	30-5 10.00	1,5h	gaslift N2	nvt	40-60	50	40(end)	**	**	**	###		
30-5 10.15	30-5 10.30	15min	injectie	1 <sup>^^</sup>	70	nvt ^	38-28	n.v.t.	n.v.t.	n.v.t.	13	n.g.	38-28
30-5 10.40	30-5 11.30	1h	injectie	minimaal	ca. 5 m³/h	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@@	minimaal	22
	@ 5 m³ met een oplossing van Ryzolin 24 1% is via tubing in put gebracht												
30-5 11.30	30-5 13.00	1,5h	injectie	2,5-5 <sup>^^</sup>	55-36 (end)	nvt ^	23-24	n.v.t.	n.v.t.	n.v.t.	67,4	11,1	23-24
30-5 14.30	29-5 17.30	3h	gaslift N2	nvt	40-65	137	53 (end)	**	**	**	###		
30-5 17.40	30-5 19.30	2h	injectie	ca. 4 <sup>^^</sup>	55-36 (end)	nvt ^	51-30	n.v.t.	n.v.t.	n.v.t.	88	11,2	51-30
31-5 9.00	31-5 10.00	1	injectie	minimaal	5	n.v.t.	n.v.t.	n.v.t.	n.v.t.	n.v.t.	5@@@	minimaal	22
	@@@ 5m³ Ryzolin 24 5% ingebracht via annulus												
31-5 10.00	31-5 12.00	2	injectie	5,6 <sup>^^</sup>	30-70	nvt ^	22	n.v.t.	n.v.t.	n.v.t.	67,4	13,9	22
31-5 14.30	31-5 17.45	3h15	gaslift N2	nvt	45-72	154	52 (end)	**	**	**	###		
1-6 8.30	1-6 14.30	6	injectie	5,8 <sup>^^</sup>	45-30	nvt ^	32	n.v.t.	n.v.t.	n.v.t.	197	13,7	32
04-06 11.00	04-06 13.00	2	gaslift N2	nvt	ca. 65	116	53 (end)	**	**	**	###		
04-06 14.00	04-06 16.30	2,5	gaslift N2	nvt	65-70	154	58(end)	**	**	**	###		
04-06 17.00	04-06 20.00	3	injectie	ca. 3-5 <sup>^^</sup>	45-35 (end)	nvt ^	44	n.v.t.	n.v.t.	n.v.t.	124	11,9	44
05-06 8.45	05-06 11.15	2,5	injectie	ca. 3-5 <sup>^^</sup>	35 -29(end)	nvt ^	30	n.v.t.	n.v.t.	n.v.t.	80	11,4	30

### CLEAN-UP / TEST FORMULIER

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)

Test Company : ADH

Test Supervisor : Bas Pittens

Hoofdverantwoordelijke ter plekke : Bas Pittens

Pump pressure (PISA 154) = P in production line between wellhead producer and degasser

Injection pressure (PISA 253) = P in injection line between degasser and wellhead injector

Water temperature = T at 650 m in P/T sensor of producer

Injection temperature = T at 300 m in P/T sensor of injector

[illegible]

### CLEAN-UP / TEST FORMULIER

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)

Test Company : ADH

Test Supervisor : Bas Pittens

Hoofdverantwoordelijke ter plekke : Bas Pittens

Pump pressure (PISA 154) = P in production line between wellhead producer and degasser

Injection pressure (PISA 253) = P in injection line between degasser and wellhead injector

Water temperature = T at 650 m in P/T sensor of producer

Injection temperature = T at 300 m in P/T sensor of injector

[illegible]

### CLEAN-UP / TEST FORMULIER

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)

Test Company : ADH

Test Supervisor : Bas Pittens

Hoofdverantwoordelijke ter plekke : Bas Pittens

Pump pressure (PISA 154) = P in production line between wellhead producer and degasser

Injection pressure (PISA 253) = P in injection line between degasser and wellhead injector

Water temperature = T at 650 m in P/T sensor of producer

Injection temperature = T at 300 m in P/T sensor of injector

[illegible]



PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)

Test Company : ADH

Test Supervisor : Bas Pittens

Hoofdvantwoordelijke ter plekke : Bas Pittens

dP Injection (PIA 202) =  $P_{inj}(\text{flow } x) - P_{inj}(\text{no flow})$ , measured in sensor down hole in injector (300 mDh)

Water temperature = T at 650 m in P/T sensor of producer

Injection temperature = T at 300 m in P/T sensor of injector

[illegible]

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)

Test Company : ADH

Test Supervisor : Bas Pittens

Hoofdvantwoordelijke ter plekke : Bas Pittens

dP Injection (PIA 202) =  $P_{inj}(\text{flow } x) - P_{inj}(\text{no flow})$ , measured in sensor down hole in injector (300 mDh)

Water temperature = T at 650 m in P/T sensor of producer

Injection temperature = T at 300 m in P/T sensor of injector

[illegible]

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)

Test Company : ADH

Test Supervisor : Bas Pittens

Hoofdvantwoordelijke ter plekke : Bas Pittens

dP Injection (PIA 202) =  $P_{inj}(\text{flow } x) - P_{inj}(\text{no flow})$ , measured in sensor down hole in injector (300 mDh)

Water temperature = T at 650 m in P/T sensor of producer

Injection temperature = T at 300 m in P/T sensor of injector

Clean-Up / Test Formulier d.d. 12-03-2012 rev.0

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)

Test Company : ADH

Test Supervisor : Bas Pittens

Hoofdverantwoordelijke ter plekke : Bas Pittens

Injection temperature = T at 300 m in P/T sensor of injector

Clean-Up / Test Formulier d.d. 12-03-2012 rev.0

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)

Test Company : ADH

Test Supervisor : Bas Pittens

Hoofdvantwoordelijke ter plekke : Bas Pittens

dP Injection (PIA 202) =  $P_{inj}(\text{flow } x) - P_{inj}(\text{no flow})$ , measured in sensor down hole in injector (300 mDh)

Water temperature = T at 650 m in P/T sensor of producer

Injection temperature = T at 300 m in P/T sensor of injector

[illegible]

### CLEAN-UP / TEST FORMULIER

PUT NAAM : HAG GT-01 (producer) and HAG GT-02 (injector)

Test Company : ADH

Test Supervisor : Bas Pittens

Hoofdverantwoordelijke ter plekke : Bas Pittens

dP producer (PISA100) = Pprod(flow x) - Pprod(no flow), measured in sensor down hole in producer (650 m DH)

dP Injection (PIA 202) =  $P_{inj}(\text{flow } x) - P_{inj}(\text{no flow})$ , measured in sensor down hole in injector (300 mDh)

Inject. surface P (PISA 253) = P in injection line between booster and wellhead injector

Water temperature = T at 650 m in P/T sensor of producer

Injection temperature = T at 300 m in P/T sensor of injector

Datum		Flow	Pump	dP prod.	Water	Water	Water	Gas	Gas	Gas/Water	Water	Inject. surface P	dP injection	Injectie
		Period	frequentie	(PISA100)	Prod.snelh.	Cumm.prod	Temp	Prod.snelh	Cumm.prod	Ratio	cumm. Inj	(PISA 253)	(PIA202)	Temp
Van	Tot	hr	Hz	bar	m3/hr	m3	°C	m3/hr	m3	m3/m3	m3	bar	bar	°C
13-6 15.00h	13-6 17.00h	2	35	3-5	30	17	30	-	-	-	buffered and transport to ATM			
14-6 12.30h	14-6 12.45h	15 min	30	ca. 3	30	9	30	-	-	-	buffered and transport to ATM			
14-6 13.00h	14-6 14.30	1h30	37-40	2-10*	35-50	50	50	30-50	n.g.	n.g.	50	24	24bar@50m³/h	18-23
			*Psensor in producer was not constant											
14-6 14.30h	14-6 15.15	1h45	35	4-8*	30	27	50	ca 30	n.g.	n.g.	buffered and transport to ATM			
14-6 15.15h	14-6 16.15	1	35-55	8-28*	30-78	60	70	ca 50-70	121**	ca 1	60	30-60	65bar@78m³/h	50
								** total of day						
15-6 9.30	15-6 12.30	3	30-65	40-42*	22-82	132	75	46-79	ng	ng	122	30-55	61bar@ca. 80 m³/h	65
15-6 14.30	15-6 16.00	1,5	30-65	40-42*	70-95	141	76	70-90	ng	ng	131	30-55	64bar@ca. 80 m³/h	67
18-6 10.30	18-6 17.45	7h15***	30-65	33 @ 75 m³/h	gem. 75-80	327	75	50-100^	424	1,3	327	30-52	50bar@75 m³/h	65
		***intermitend pumping (on/off)					^strong fluctuation because of operation regime (0-300 m³/h)							
19-6 8.30	19-6 17.00	8h30***	30-65	36 @ 82 m³/h	gem. 60-85	547	77	50-100^	501	0,9	547	35-50	60bar@ 82m³/h	71
20-6 8.30	20-6 17.00	8h30***	30-65	30 @ 80 m³/h	gem. 60-85	568	77	50-90	544	1,0	558	40-50	59bar@ 80 m³/h	71
21-6 9.00	21-6 16.30	7h30	30-55	27 @72 m³/h	gem.40-80	442	77	35-80	399	1,0	442	35-49	57bar@ 72 m³/h	70
22-6 9.30	22-6 16.30	7	30-55	23 @71 m³/h	70-75	489	77	60-70	495	1,0	489	35-50	58bar@ 71 m³/h	70
25-6 12.00	25-6 16.30	4,5	30-60	22 @70 m³/h	70	306	75	60-70	299	1,0	306	30-50	54bar@70m³/h	66
26-6 8.30	26-6 21.00	12,5	55	22 @72 m³/h	70-75	822	77	60-70	781	1,0	807	30-50	58,7@72m³/h	70
27-6 8.30	27-6 20.30	12	55	15 @ 64 m³/h	30-70	641	76	60-70	627	1,0	635	30-50	52,7@64m³/h	70
				10@52m³/h			75						44,1@52m³/h	67
				5@31m³/h			76						30@31m³/h	68
28-6 9.00	28-6 15.00	6	55	15 @ 63 m³/h	30-70	293	76	60-70	282	1,0	293	30-50	50@63m³/h	68
				10@51m³/h			74						44,2@51m³/h	63
				5@31m³/h			66						30,7@31m³/h	49
29-6 9.30	29-6 11.00	1,5	20 m³ of 15% acid pumped into injector								20			
29-6 11.30	29-6 17.15	6	65	24 @ 80 m³/h	80-110	504	77	70-100	503	1,0	504	30-50	59@80m³/h^	72
												^spec. injection capacity was still decreasing		
2-7 9.00	2-7 21.00	12	40-65	23 @ 82 m³/h	80-90	844	77	70-90	833	1,0	844	30-50	57,9@82m³/h	72
3-7 8.15	3-7 9.00	0,75	acid pumped into injector								10			
3-7 9.00	3-7 10.45	1,75	40-65	29 @ 80 m³/h	70-90	133	75	70-90	n.g.	n.g.	133	30-50	57,8@80m³/h	65
3-7 11.00	3-7 12.00	1	acid pumped into injector								10			
3-7 12.00	3-7 20.00	8	40-60	23 @ 80 m³/h	70-80	595	77	70-90	739**	1,0	595	30-50	60,1@80m³/h	72
								** total of day						
					</									