

Activité	Développement
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Distribution	

Historique d'échanges de documents :

Date	Auteur		
09/02/2014	Farouk Karoui	Initialisation	



Gestion de production des puits pétroliers

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Présentation :

« **Gestion de production des puits** » est une application conçu pour un client sur mesure pour répondre à la gestion complète de ses puits.

Depuis le paramétrage des puits sur un séparateur, le monitoring jusqu'au rapport journalier complet.

Fonctionnalités:

(1) Paramétrage

Paramétrages global:

-  Well
-  Separator
-  Field
-  Concession
-  Tank
-  Chemical product
-  Injection point
-  Sation, Unit & shut down equipement
-  Event (Coiled Tubing Unit, Drilling / Work Over, Miscellaneous ...)

Paramètre de calcul:

-  tp, pb
-  VNFB, Freinte
-  Separator parameter

Scale Barton Factor	<input type="text" value="4"/>	Separator	<input type="text" value="SEP-EFR-MBD250"/>
ID (pipe)	<input type="text" value="5.761"/>	fb	<input type="text" value="2086.4"/>
d (orifice)	<input type="text" value="3.125"/>	b	<input type="text" value="0.039"/>
SG	<input type="text" value="0.7"/>	H	<input type="text" value="20"/>
		L	<input type="text" value="33.42"/>

Paramétrage pour chaque puit :WHFP VS GasRate

Psh (psi)	Pwhf (psi)	Q (mmscfd)	Oil yield (bbls/mmscf)	Water yield (bbls/mmssc)
1900	822	6.75	45	0.9
1900	820	6.76	45	0.9
2450	980	6.86	55	0.8
2450	990	6.9	55	0.8

Date	Oil yield (bbls/mmscf)	Water yield (bbls/mmsc)
12/03/2011	45	0.9
12/03/2011	45	0.9
13/07/2010	55	0.8
13/07/2010	55	0.8

WHFP VS GasRate

Date: 09/02/2014

Flowing Period 1
09/02/2014

Flowing Period 2

Psh (psi)

Pwhf (psi)

Q (mmscfd)

Oil yield (bbl)

Water yield (

Paramétrage monitoring

Configuration pour associer un puit à un séparateur:

Field:

Separator:

Wells non associated to separator

EL-FRANIG-01
EL-FRANIG-04ST2

Separator Wells

EL-FRANIG-06

Separator	Well	Start date	Hour	Minute	End date	Hour	Minute

Actual field configuration : EL_FRANIG

Separator	Well	Start date
SEP-EFR-MBD250	EL-FRANIG-06	26/03/2013 16:00:00
SEP-EFR-MBD200	EL-FRANIG-01	04/07/2013 07:00:00

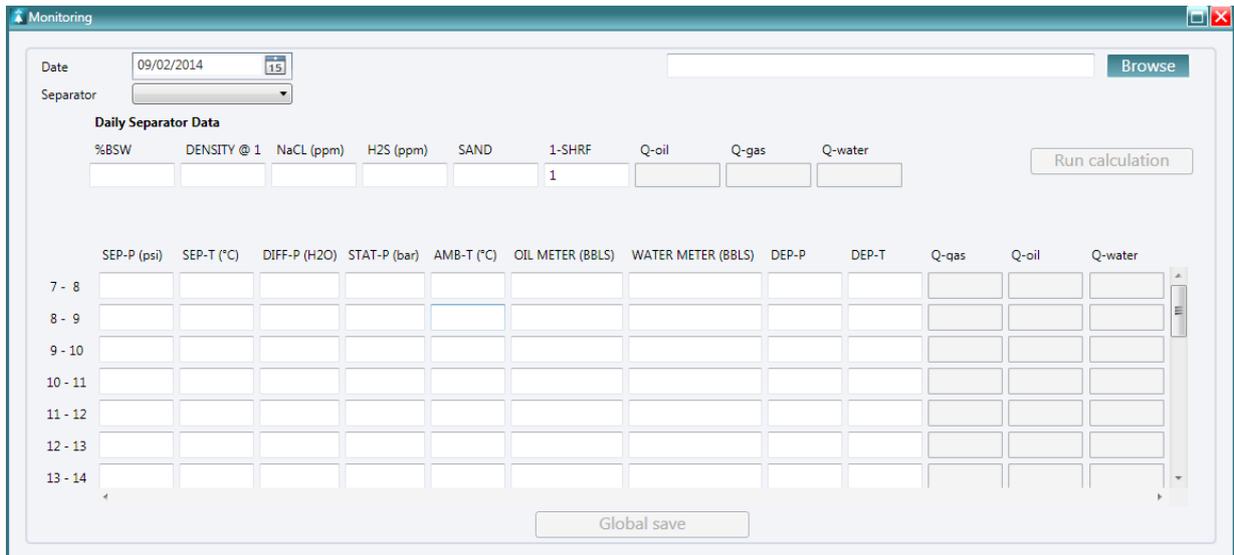
Cette configuration va servir pour l'importation des fichiers Excel de monitoring.

Avant toute importation de données d'un fichier journalier de monitoring une vérification selon la configuration du puit est faite.



(2) Monitoring

Introduction des données pour 24 heures toutes les heures soit par une saisie manuelle ou par un fichier modèle Excel.



The screenshot shows the 'Monitoring' window with the following data:

Date: 09/02/2014
 Separator: [Dropdown menu]

Daily Separator Data

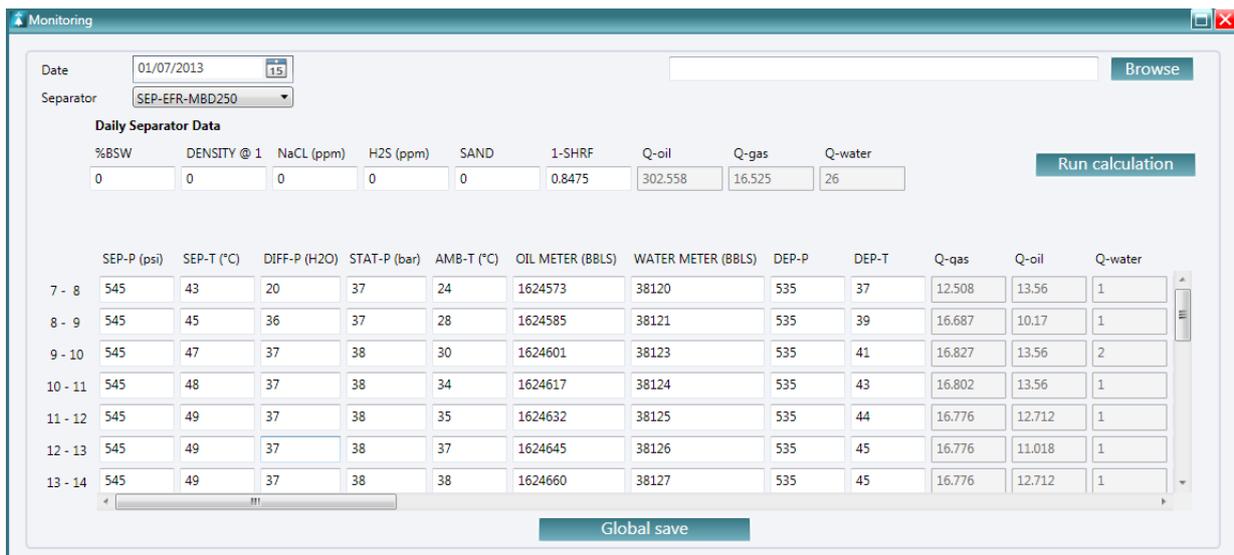
%BSW	DENSITY @ 1	NaCL (ppm)	H2S (ppm)	SAND	1-SHRF	Q-oil	Q-gas	Q-water
					1			

Buttons: Run calculation, Global save

SEP-P (psi)	SEP-T (°C)	DIFF-P (H2O)	STAT-P (bar)	AMB-T (°C)	OIL METER (BBLS)	WATER METER (BBLS)	DEP-P	DEP-T	Q-gas	Q-oil	Q-water
7 - 8											
8 - 9											
9 - 10											
10 - 11											
11 - 12											
12 - 13											
13 - 14											

Une fois les données sont introduites le calcul se fait par un cliquer sur "Run calculation" si 2 puits sont reliés à un séparateur le calcul assure la production de chacun. Qgaz, Qoil et Qwater.

Une visualisation de l'historique et une régénération de calcul en cas de besoin



The screenshot shows the 'Monitoring' window with the following data:

Date: 01/07/2013
 Separator: SEP-EFR-MBD250

Daily Separator Data

%BSW	DENSITY @ 1	NaCL (ppm)	H2S (ppm)	SAND	1-SHRF	Q-oil	Q-gas	Q-water
0	0	0	0	0	0.8475	302.558	16.525	26

Buttons: Run calculation, Global save

SEP-P (psi)	SEP-T (°C)	DIFF-P (H2O)	STAT-P (bar)	AMB-T (°C)	OIL METER (BBLS)	WATER METER (BBLS)	DEP-P	DEP-T	Q-gas	Q-oil	Q-water	
7 - 8	545	43	20	37	24	1624573	38120	535	37	12.508	13.56	1
8 - 9	545	45	36	37	28	1624585	38121	535	39	16.687	10.17	1
9 - 10	545	47	37	38	30	1624601	38123	535	41	16.827	13.56	2
10 - 11	545	48	37	38	34	1624617	38124	535	43	16.802	13.56	1
11 - 12	545	49	37	38	35	1624632	38125	535	44	16.776	12.712	1
12 - 13	545	49	37	38	37	1624645	38126	535	45	16.776	11.018	1
13 - 14	545	49	37	38	38	1624660	38127	535	45	16.776	12.712	1



(3) Well reporting

Les rapports générés sont multiples:

✚ Daily separator

SEP Daily data production

Date :	01/07/2013				
SEPARATOR	SEP-EFR-MBD250				
% BSW	DENSITY @ 15 °C	NaCL (ppm)	H2S (ppm)	SAND	SHR F
0	0	0	0	0	0.8475

Time	SEP_P (psi)	SEP_T (°C)	DIFF_P (°H2O)	STAT_P (bar)	AMB_T (°C)	DEP_P (psi)	DEP_T (°C)	Production duration (min)	Q Gas (MMSCFD)	Q Oil (BOFD)	Q Water (BWPD)	Wells
07:00	545	43	20	37	24	535	37	60	12.508	325.44	24	EL-FRANIG-06
08:00	545	45	36	37	28	535	39	60	16.687	244.08	24	EL-FRANIG-06 / EL-FRANIG-01
09:00	545	47	37	38	30	535	41	60	16.827	325.44	48	EL-FRANIG-06 / EL-FRANIG-01
10:00	545	48	37	38	34	535	43	60	16.802	325.44	24	EL-FRANIG-06 / EL-FRANIG-01
11:00	545	49	37	38	35	535	44	60	16.776	305.1	24	EL-FRANIG-06 / EL-FRANIG-01
12:00	545	49	37	38	37	535	45	60	16.776	264.42	24	EL-FRANIG-06 / EL-FRANIG-01
13:00	545	49	37	38	38	535	45	60	16.776	305.1	24	EL-FRANIG-06 / EL-FRANIG-01
14:00	545	49	37	38	39	535	45	60	16.776	284.76	48	EL-FRANIG-06 / EL-FRANIG-01
15:00	545	48	37	38	40	535	45	60	16.802	244.08	24	EL-FRANIG-06 / EL-FRANIG-01
16:00	545	47	37	38	37	535	45	60	16.827	325.44	24	EL-FRANIG-06 / EL-FRANIG-01
17:00	545	47	37	38	33	535	44	60	16.827	264.42	24	EL-FRANIG-06 / EL-FRANIG-01
18:00	545	47	36	37	32	535	44	60	16.598	305.1	24	EL-FRANIG-06 / EL-FRANIG-01
19:00	545	47	36	37	30	535	43	60	16.598	325.44	24	EL-FRANIG-06 / EL-FRANIG-01
20:00	545	46	36	37	29	535	43	60	16.661	305.1	24	EL-FRANIG-06 / EL-FRANIG-01
21:00	545	46	36	37	28	535	42	60	16.661	325.44	24	EL-FRANIG-06 / EL-FRANIG-01
22:00	545	45	36	37	27	535	41	60	16.687	345.78	24	EL-FRANIG-06 / EL-FRANIG-01
23:00	545	45	36	37	26	535	40	60	16.687	345.78	24	EL-FRANIG-06 / EL-FRANIG-01
00:00	545	45	36	37	25	535	40	60	16.687	305.1	24	EL-FRANIG-06 / EL-FRANIG-01
01:00	545	44	36	37	25	535	40	60	16.712	325.44	24	EL-FRANIG-06 / EL-FRANIG-01
02:00	545	44	36	37	24	535	40	60	16.712	284.76	24	EL-FRANIG-06 / EL-FRANIG-01
03:00	545	44	36	37	22	535	38	60	16.712	284.76	24	EL-FRANIG-06 / EL-FRANIG-01
04:00	545	43	35	37	20	535	38	60	16.504	305.1	24	EL-FRANIG-06 / EL-FRANIG-01
05:00	545	43	35	37	20	535	38	60	16.504	284.76	24	EL-FRANIG-06 / EL-FRANIG-01
06:00	545	43	35	37	24	535	38	60	16.504	305.1	24	EL-FRANIG-06 / EL-FRANIG-01
TOTAL	545	45.958	35.583	37.375	29.458	535	41.583	1440	16.525	302.558	26	

✚ Monthly separator

SEP Monthly data production

Month/Year :	July-2013
Period :	From 1 to 31
Well :	SEP-EFR-MBD250

Time	SEP_P (psi)	SEP_T (°C)	DIFF_P (°H2O)	STAT_P (bar)	AMB_T (°C)	DEP_P (psi)	DEP_T (°C)	%BSW	DENSITY @ 15°C	NaCL (ppm)	H2S (ppm)	SAND	SHR_F	Production duration (h)	Gas Produced (MMSCF)	Oil produced (bbl)	Water produced (bbl)	Wells
01/07/2013	545	45.958	35.583	37.375	29.458	535	41.583	0	0	0	0	0	0.848	24	16.525	302.558	26	EL-FRANIG-06 / EL-FRANIG-01
02/07/2013	530	46.667	36.125	37.792	30.833	540	41.917	0	0	0	0	0	0.848	24	16.73	305.948	24	EL-FRANIG-06 / EL-FRANIG-01
03/07/2013	557.917	45.667	35.208	37.417	31.75	547.917	40.375	0	0	0	0	0	0.848	24	16.676	316.118	24	EL-FRANIG-06 / EL-FRANIG-01
04/07/2013	555	43.708	19.625	37.667	30.333	548.167	39.833	0	0.725	0	0	0	0.848	24	12.491	288.15	18	EL-FRANIG-06
05/07/2013	530	41.917	19.417	37.917	27.792	540	37.625	0	0.721	0	0	0	0.848	24	12.408	300.015	18	EL-FRANIG-06
06/07/2013	530	42.958	19.438	38	26.625	545	38.583	0	0.72	0	0	0	0.848	24	12.392	261.03	16	EL-FRANIG-06
07/07/2013	555	44.917	19.708	37.958	27.75	545	40.667	0	0.728	0	0	0	0.848	24	12.486	222.892	16	EL-FRANIG-06
08/07/2013	555	45.208	19.75	38	30.083	545	40.667	0	0.725	0	0	0	0.848	24	12.491	225.435	17	EL-FRANIG-06
09/07/2013	530	45.125	19.833	38	29.958	545	41.5	0	0.725	0	0	0	0.848	24	12.456	227.978	16	EL-FRANIG-06
10/07/2013	552.708	43.792	19.542	37.833	30.083	545	39.542	0	0.709	0	0	0	0.848	24	12.438	255.098	17	EL-FRANIG-06
11/07/2013	530	43.667	19.375	37.708	28.625	545	38.292	0	0.72	750	0	0	0.848	24	12.346	247.47	17	EL-FRANIG-06
12/07/2013	553.958	45.875	19.417	38	32.458	546.875	41.333	0	0.722	610	0	0	0.848	24	12.336	219.502	18	EL-FRANIG-06
13/07/2013	555	44.75	19.458	37.708	31.917	550	41.292	0	0.722	680	0	0	0.848	24	12.416	243.232	16	EL-FRANIG-06
14/07/2013	555	44.25	19.417	38	32.708	550	39.125	0	0.72	630	0	0	0.848	24	12.407	281.37	16	EL-FRANIG-06
15/07/2013	555	44.333	19.417	38	30.125	550	39.458	0	0.72	536	0	0	0.848	24	12.406	262.725	16	EL-FRANIG-06
16/07/2013	555	45.083	19.5	38	31.083	550	40.542	0	0.726	238	0	0	0.848	24	12.416	225.435	16	EL-FRANIG-06
17/07/2013	553.958	44.583	19.543	38	31.667	548.958	40.542	0	0.726	620	0	0	0.848	24	12.428	260.182	17	EL-FRANIG-06
18/07/2013	553.75	43.667	19.417	37.917	30.625	548.542	39.125	0	0.72	590	0	0	0.848	24	12.411	289.945	17	EL-FRANIG-06
19/07/2013	553.333	44.125	19.292	38	32.958	548.333	41.458	0	0.722	637	0	0	0.848	24	12.349	228.468	17	EL-FRANIG-06
20/07/2013	553.542	44.708	19.375	38	32.083	548.542	41.25	0	0.719	600	0	0	0.848	24	12.367	240.69	17	EL-FRANIG-06
21/07/2013	553.125	44.792	19.458	38	35.583	548.125	41.833	0	0.723	600	0	0	0.848	24	12.389	255.945	15	EL-FRANIG-06
22/07/2013	530	44.125	19.5	38	31.625	545	40.583	0	0.718	540	0	0	0.848	24	12.373	277.132	16	EL-FRANIG-06
23/07/2013	530	43.667	19.5	38	29.833	545	39.75	0	0.717	620	0	0	0.848	24	12.388	289.945	18	EL-FRANIG-06
24/07/2013	545	44.792	19.75	38	31.75	540	41.458	0	0.717	650	0	0	0.848	24	12.381	238.995	15	EL-FRANIG-06
25/07/2013	546.458	45.458	19.167	38	31.75	541.667	41.625	0	0.718	710	0	0	0.848	24	12.198	234.758	17	EL-FRANIG-06
26/07/2013	546.458	45.458	19	38	31.75	541.667	41.625	0	0.718	710	0	0	0.848	24	12.151	217.808	16	EL-FRANIG-06
27/07/2013	546.458	45.458	20	38	31.75	541.667	41.625	0	0.719	680	0	0	0.848	24	12.466	220.35	14	EL-FRANIG-06
28/07/2013	546.458	45.458	20	38	31.75	541.667	41.625	0	0.716	620	0	0	0.848	24	12.466	242.385	13	EL-FRANIG-06
29/07/2013	546.458	45.458	19	38	31.75	541.667	41.625	0	0.715	600	0	0	0.848	24	12.151	249.165	14	EL-FRANIG-06
30/07/2013	551.458	45.833	19.375	38	33.5	546.458	41.833	0	0.726	656	0	0	0.848	24	12.316	223.74	16	EL-FRANIG-06
31/07/2013	530	44.542	19.417	38	30.75	545	40.458	0	0.726	680	0	0	0.848	24	12.339	246.622	15	EL-FRANIG-06
TOTAL	551.324	44.71	21.032	37.913	30.991	545.202	40.605	0	0.651	416.677	0	0	0.848	744	386.618	7930.905	531	

✚ Daily Test

✚ Monthly Test

✚ Daily Well



Monthly well

well monthly data production

month/year :	July-2013
period :	from 1 to 31
well :	EL-FRANIG-01

date	CHOKE (1/64)	whfp (psi)	FLT (°C)	FLP (psi)	CAS_P (psi)	Activation	SEP_P (psi)	SEP_T (°C)	Prod_duration (h)	Gas Produced (MMSCF)	Oil Produced (BOPD)	Water Produced (BWPD)	CGR(bbls/mmscf)	Separator	Comments
01/07/2013	192.00	550.00	48.50	547.50	15.00	NF	544.79	45.96	24.00	6.06	98.20	12.88	16.22	SEP-EFM-WCS000	
02/07/2013	192.00	555.00	48.40	550.00	15.00	NF	550.00	45.67	24.00	6.12	99.28	10.43	16.23	SEP-EFM-WCS000	
03/07/2013	192.00	563.50	48.50	558.30	15.00	NF	557.92	45.67	24.00	6.07	102.14	10.39	16.82	SEP-EFM-WCS000	
04/07/2013	192.00	560.00	48.00	555.00	15.00	NF	550.00	43.79	24.00	4.52	100.30	16.00	22.19	SEP-EFM-WCS000	
05/07/2013	192.00	555.00	47.00	550.00	15.00	NF	550.00	42.29	24.00	4.51	105.40	17.00	23.38	SEP-EFM-WCS000	
06/07/2013	192.00	555.00	47.30	550.00	15.00	NF	550.00	43.13	24.00	4.50	103.70	15.00	23.04	SEP-EFM-WCS000	
07/07/2013	192.00	560.00	48.20	555.00	15.00	NF	527.08	44.83	23.00	4.37	98.60	14.00	22.55	SEP-EFM-WCS000	
08/07/2013	192.00	560.00	48.40	555.00	15.00	NF	550.00	45.08	24.00	4.49	102.00	13.00	22.74	SEP-EFM-WCS000	
09/07/2013	192.00	555.00	48.10	550.00	15.00	NF	550.00	45.29	24.00	4.51	99.45	12.00	22.04	SEP-EFM-WCS000	
10/07/2013	192.00	560.00	47.30	555.00	15.00	NF	555.00	44.21	24.00	4.55	104.55	9.00	22.99	SEP-EFM-WCS000	
11/07/2013	192.00	555.00	47.20	555.00	15.00	NF	550.00	44.25	24.00	4.55	102.00	14.00	22.40	SEP-EFM-WCS000	
12/07/2013	192.00	557.70	48.50	552.70	15.00	NF	552.71	45.29	24.00	4.49	96.05	13.00	21.38	SEP-EFM-WCS000	
13/07/2013	192.00	560.00	47.50	555.00	15.00	NF	555.00	44.83	24.00	4.43	98.60	12.00	22.26	SEP-EFM-WCS000	
14/07/2013	192.00	560.00	48.10	555.00	15.00	NF	555.00	44.29	24.00	4.42	102.85	12.00	23.26	SEP-EFM-WCS000	
15/07/2013	192.00	560.00	47.50	555.00	15.00	NF	555.00	44.29	24.00	4.43	100.30	14.00	22.67	SEP-EFM-WCS000	
16/07/2013	192.00	560.00	48.40	555.00	15.00	NF	555.00	45.38	24.00	4.38	96.90	12.00	22.15	SEP-EFM-WCS000	
17/07/2013	192.00	559.00	48.80	554.00	15.00	NF	553.96	44.53	24.00	4.41	100.30	9.00	22.73	SEP-EFM-WCS000	
18/07/2013	192.00	558.80	48.00	553.80	15.00	NF	553.76	43.67	24.00	4.41	102.00	12.00	23.15	SEP-EFM-WCS000	
19/07/2013	192.00	558.30	48.40	553.30	15.00	NF	553.33	44.29	24.00	4.38	99.45	10.00	22.71	SEP-EFM-WCS000	
20/07/2013	192.00	558.50	48.00	553.50	15.00	NF	553.54	44.92	24.00	4.35	98.60	9.00	22.67	SEP-EFM-WCS000	
21/07/2013	192.00	558.10	48.50	553.10	15.00	NF	553.13	45.25	24.00	4.38	96.90	10.00	22.14	SEP-EFM-WCS000	
22/07/2013	192.00	555.00	48.00	550.00	15.00	NF	550.00	44.38	24.00	4.38	102.85	11.00	23.58	SEP-EFM-WCS000	
23/07/2013	192.00	555.00	47.60	550.00	15.00	NF	550.00	43.71	24.00	4.33	102.00	14.00	23.55	SEP-EFM-WCS000	
24/07/2013	192.00	550.00	48.20	545.00	15.00	NF	545.00	45.88	24.00	4.43	102.00	12.00	23.03	SEP-EFM-WCS000	
25/07/2013	192.00	551.50	49.20	546.50	15.00	NF	546.46	45.42	24.00	4.49	96.60	13.00	21.97	SEP-EFM-WCS000	
26/07/2013	192.00	551.50	49.20	546.50	15.00	NF	546.46	45.42	24.00	4.34	96.05	13.00	22.14	SEP-EFM-WCS000	
27/07/2013	192.00	551.50	49.20	546.50	15.00	NF	546.46	45.42	24.00	4.42	97.75	13.00	22.11	SEP-EFM-WCS000	
28/07/2013	192.00	551.50	49.20	546.50	15.00	NF	546.46	45.42	24.00	4.50	99.45	13.00	22.09	SEP-EFM-WCS000	
29/07/2013	192.00	551.50	49.20	546.50	15.00	NF	546.46	45.42	24.00	4.42	96.90	17.00	21.91	SEP-EFM-WCS000	
30/07/2013	192.00	556.50	49.20	551.50	15.00	NF	551.46	47.21	24.00	4.45	96.90	15.00	21.80	SEP-EFM-WCS000	
31/07/2013	192.00	555.00	48.30	550.00	15.00	NF	550.00	44.79	24.00	4.50	99.45	13.00	22.10	SEP-EFM-WCS000	
TOTAL	192.00	556.38	48.29	551.62	15.00	NF	550.13	44.91	743.00	142.55	3,099.52	392.70	21.94		

- Production de tous les puits
- Production par field
- Production par concession

Year: 2013 Month: July Search

Ref	Date	Density @ 15°C	BSW %	Volume (m³)
016/13	1			
	2	0.6950	0.000	1203.701
	3			
	4			
	5			

Beginning Inventory (m³) **2047.207**

Ending Inventory (m³) **1137.821**

OIL PRODUCED THIS MONTH (m³) 2680.083

2- NATURAL GAS

TOTAL GAS DELIVERED TO STEG (Nm³) 12 551 562

3- DISTRIBUTION PER INDIVIDUAL WELL

Well	DAYS FLOWED	Oil (M³)	Oil BARRELS	Gas (Nm³)	Gas (MSCF)	PseudoLPG (mscf cor.PCS)	Pseudo LPG (TON)
EL-FRANIG-01	30.96	728.705	4584	3332370	124384	15684	349.404
EL-FRANIG-04ST2							
EL-FRANIG-06	31.00	1793.117	11279	8846131	330191	41601	926.878
TOTAL EL_FRANIG		2521.822	15862	12178501	454575	57285	1276.282
BAGUEL-01	31.00	125.748	791	300108	11202	1409	31.446
BAGUEL-02	27.79	32.513	205	72953	2723	341	7.585

4- AVERAGE VALUES

Average PCS (kcal/Nm³) : **10552.48**

Average monthly oil gravity : **0.6950**

GPI Average Specific Density : **0.4556**

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(4) Gestion Production

-  Gaz
-  GPL
-  Pipeline process
-  Dewpoint mesure
-  Weekly production

Year	<input type="text" value="2013"/>	▼
Month	<input type="text" value="July"/>	▼
Budget	<input type="text" value="3954"/>	
<input type="button" value="Update"/> <input style="margin-left: 50px;" type="button" value="Close"/>		

-  Transfert des tunks
-  Génération d'un certificat d'expédition

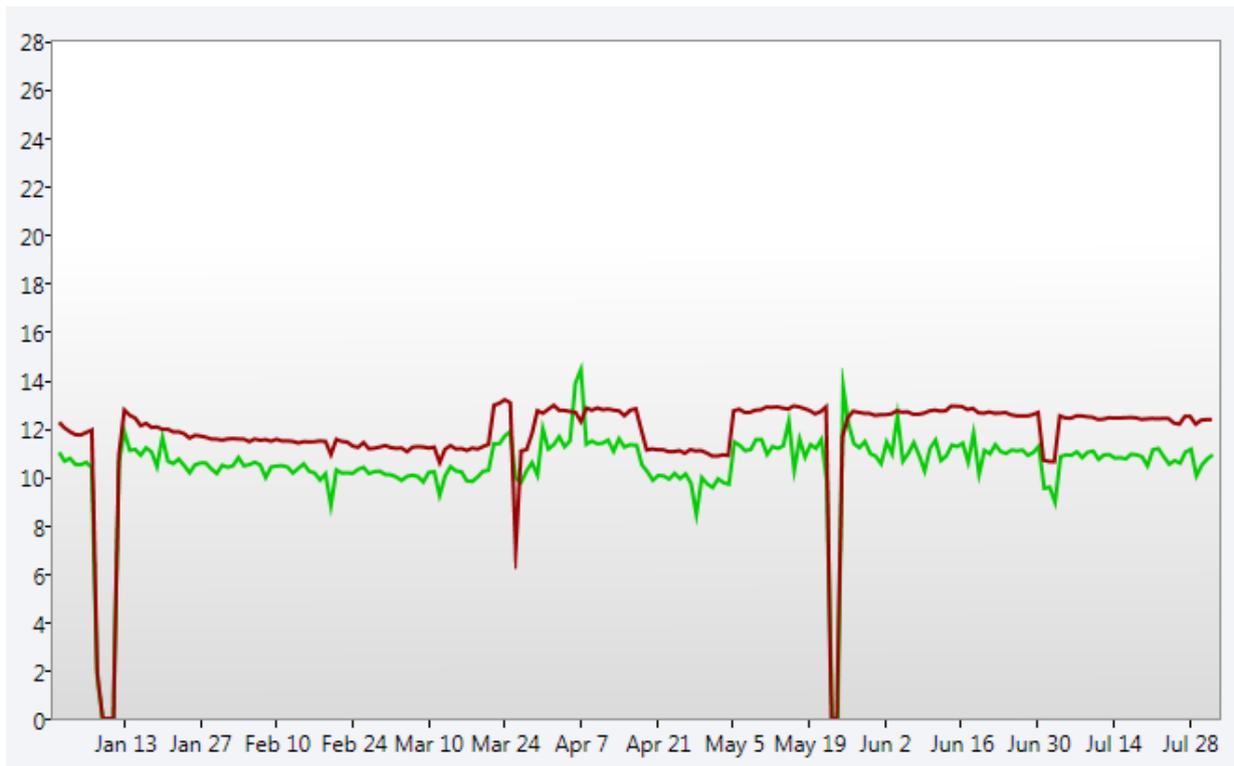
N°	DESCRIPTION DES OPERATIONS	AVANT EXPEDITION			APRES EXPEDITION			CALCUL
		Heure	Jour	Mois	Heure	Jour	Mois	
1	Heures et dates des jaugeages	00h00	08	10	00h00	08	10	
2	Hauteur du liquide en millimètres	7070			1 070			Jaugée
3	Volume apparent en litres	1 428 034			238 523			Barème
4	Température moyenne du bac	0,0 °C			0,0°C			Jaugée
5	Densité apparente	0,0000			-----			Labo.
	Température d'observation	0,0°C			-----			
6	Densité corrigée à 15°C	0,7027			-----			Table 53
7	Coefficient de correction de volume (arrondi au 4ème chiffre après la virgule)	0,9926			0,0000			Table 54
8	Volume corrigé à 15°C en litres	1 417 467			0			(3) x (7)

9	Volume brut à 15°C expédié en litres		1 417 467	(8 av) - (8 ap)
10	Poids brut expédié en kg (non arrondi, négliger les fractions de kg)		996 054	(9) x (6)
11	Pourcentage de BSW reconnu		0,025 %	Labo.
12	Déduction BSW en litres		354	(9) x (11) %
13	Volume net à 15°C expédié en litres		1417113	(9) - (12)
14	Poids net expédié en kg		995 805	(13) x (6)
15	BSW déduit en kg		249	(10) - (14)

 Station unit & shut down

(5) Reporting

-  Hourly gaz
-  Hourly GPL
-  Daily production
-  Monthly total gas
-  Monthly oil transfered
-  Total estimated & sales



RAPPORT MENSUEL D'ENLEVEMENT DU GAZ SABRIA

Jour	Pression (bar)	V.N. STEG 10 ³ Nm ³	V.E 10 ³ Nm ³	Qualité (O/N)	Q.F 10 ³ Nm ³	PCS (kcal/Nm ³)
1	65,97		28,794		28,794	10 539,05
2	64,86		29,243		29,243	10 541,79
3	65,83		28,558		28,558	10 545,58
4	67,43		28,837		28,837	10 557,35
5	69,10		28,638		28,638	10 567,97
6	67,54		28,457		28,457	10 563,30
7	68,74		28,393		28,393	10 564,85
8	68,81		28,713		28,713	10 578,91
9	69,18		28,606		28,606	10 569,41
10	68,01		28,352		28,352	10 573,79
11	68,79		28,431		28,431	10 559,65
12	68,55		28,969		28,969	10 574,92
13	68,80		28,328		28,328	10 581,73
14	68,78		28,309		28,309	10 586,33
15	67,68		28,559		28,559	10 561,81
16	68,31		29,054		29,054	10 550,59
17	68,34		28,773		28,773	10 555,60
18	67,77		28,607		28,607	10 542,10
19	67,87		29,012		29,012	10 539,70
20	67,87		28,815		28,815	10 550,73
21	68,17		29,171		29,171	10 556,29
22	65,80		29,132		29,132	10 532,80
23	65,62		29,023		29,023	10 531,77
24	66,23		29,054		29,054	10 528,53
25	67,85		28,953		28,953	10 541,63
26	66,19		29,249		29,249	10 531,94
27	66,84		29,152		29,152	10 535,82
28	62,15		28,995		28,995	10 543,29
29	65,38		29,219		29,219	10 548,79
30	68,40		29,381		29,381	10 543,50
31	70,09		29,208		29,208	10 546,96
TOTAL			893,984		893,984	10 904,88
		Q.C.M			Q.M.F	PCS . P

ADJUSTED TO SALES		July 2013					
Date	OIL (M3)	OIL (BBLS)	GAS (NM3)	GAS (MSCF)	Pseudo LPG (TON)	Pseudo LPG mscfd cor.PCS	BOEPD
01/07/2013	88.109	554	410 997	15 341	41.905	1 880	3 424
02/07/2013	84.045	403	416 184	15 534	45.272	2 032	3 331
03/07/2013	89.302	436	387 505	14 464	41.679	1 870	3 159
04/07/2013	95.640	602	406 815	15 185	42.780	1 929	3 454
05/07/2013	110.095	692	410 188	15 311	41.855	1 873	3 556
06/07/2013	78.413	493	409 465	15 284	39.769	1 781	3 337
07/07/2013	93.863	590	409 990	15 303	40.106	1 797	3 440
08/07/2013	89.332	562	403 771	15 071	40.834	1 826	3 379
09/07/2013	89.134	561	413 730	15 443	40.585	1 818	3 437
10/07/2013	81.849	515	416 448	15 544	40.615	1 819	3 409
11/07/2013	75.899	477	404 931	15 114	43.646	1 966	3 324
12/07/2013	86.851	546	410 366	15 317	40.281	1 804	3 400
13/07/2013	82.660	520	409 534	15 296	43.922	1 966	3 395
14/07/2013	92.769	584	403 127	15 047	39.962	1 788	3 389
15/07/2013	91.976	579	403 866	15 075	41.127	1 844	3 398
16/07/2013	105.261	662	401 817	14 998	42.386	1 904	3 479
17/07/2013	92.001	579	408 836	15 260	42.641	1 915	3 441
18/07/2013	77.130	485	407 613	15 215	42.373	1 904	3 338
19/07/2013	88.234	555	404 577	15 101	38.972	1 751	3 364
20/07/2013	81.891	514	389 648	14 544	43.613	1 957	3 284
21/07/2013	80.685	508	415 007	15 491	42.997	1 930	3 411
22/07/2013	92.357	581	416 546	15 548	42.848	1 926	3 493
23/07/2013	102.465	645	403 233	15 051	42.920	1 930	3 475
24/07/2013	81.215	511	394 112	14 711	45.383	2 042	3 303
25/07/2013	93.100	586	402 653	15 029	44.981	2 022	3 427
26/07/2013	78.211	492	395 533	14 764	42.652	1 928	3 274
27/07/2013	72.281	455	411 826	15 372	42.796	1 925	3 338
28/07/2013	88.109	554	416 628	15 551	43.548	1 957	3 472
29/07/2013	86.129	542	374 634	13 984	43.859	1 970	3 201
30/07/2013	82.171	517	390 389	14 572	44.931	2 020	3 282



Daily Report:

Well	Well informations							Last well tests										Adjusted to sales				
	Hours	FTP	FLP	CRS_P	Checke	Sep. p	Sep. A	Date	Hours	Checke	FTP	Gas	Oil	Water	BSW	*API	Salinity	Gas	Oil	Water	FLPG	
EL-FRANIG-01	24	550	548	13	192	545	46	30/06/2013	24	192	553	4.648	105.4	21	0	0	0	0	0	0	0	
EL-FRANIG-04ST2	24	555	550	0	192	545	46	04/07/2013	24	96	484	0.000	0	0	0	0	0	0	0	0	0	
EL-FRANIG-06	24	555	553	0	64	520	24	30/06/2013	24	192	558	12.653	244.9	16	0	0	0	0	0	0	0	
BAGUEL-01	24	500	495	0	64	490	23	01/07/2013	24	64	500	0.107	7	0	0	0	0	0	0	0	0	
TARFA-02ST	0	70	0	0	10	68	22															
Total												17.776	376	37					410897.0	0.000	554	0.000

Oil production & inventory				Oil trans. to CPF		Oil trans. to trapsa		Pseudo GPL			Gas production & sales		
Storage tanks (m³)				Transferred volume		Transferred volume		Total liquid volume (m³)			Total gas sales (Nm³)		
TRF-2	AB3 2000	AB3 2100	Total	Date	m³	Date	m³						
Month beginning inventory	0.000	1445.871	491.336	2047.207				91.400	975.827	439791	16.416		
Yesterday inventory	0.000	1445.871	491.336	2047.207				41.905	1.307	410897	0.000		
Volume transferred	0.000	0.000	0.000	0.000				37.364	186171364	28794	1.075		
Today's inventory	0.000	1445.871	489.445	2135.316				15.206	8.654	10538.40	1.160		
24 hr. production (m³)	0.000	88.109	88.109					8.654	1.597	Perenco daily production (boepd)	0		
24 hr. production (bbls)	0	554	554					0.000	0.000	Perenco production potential (boepd)	3358		
This month production (m³ / bbls)		88.109	555					LPG (mstd/COM GAS EQ)	0.000	Fuel gas: daily/monthly (mmscf)	0.790	0.790	
This year production (m³ / bbls)		18552.000	116693					PCS (kcal/Nm³)	20308	Flare gas: daily/monthly (mmscf)	0.169	0.169	

Pipelines P & T				Personnel on site				Production data						
EFR departing, P/T (bar / °C)	37	42		CPF	Perenco	Contractor	Visitor	Separator	Sep. p (m³)	Sep. A (°C)	Gas (mmscf)	OIL (bbls)	Water (mstd)	
BAG departing, P/T (bar / °C)	34	23		Tarfa	0	9	0	SEP-EFR-MBD210	545	46	16.525	302.6	26	
TAR departing, P/T (bar / °C)	0	0		Bagnal	0	2	0	SEP-EFR-MBD200	22	2	0.194	4.2	2	
PK 74 10" pipe, P/T (bar / °C)	26.2			Eldneig	3	14	0	SEP-BAG-MBD300	520	24	0.388	18.7	0	
PK 74 6" pipe, P/T (bar / °C)	26.5			Gabas	0	3	0	SEP-TAR-MBD210	68	22	0.000	0	0	
CPF incoming, P/T (bar / °C)	17.0	24		Total	24	41	0	SEP-BAG-MBD200	490	23	0.107	7	0	
								Total perenco production				17.214	332.5	28

General comments		Wells comments	
10" pipeline EFR-CPF : Pipeline EFR-CPF; PK20, PK40, PK60, PK74, PK90 : Détermination du défaut de revêtement zone CPF, excavation en cours		EL-FRANIG-01	
CPF : Tarage et plombage PSV non isolable par BECA (12/12)		EL-FRANIG-04ST Fermé (SLK operation)	
Gas-Gas TE Precoller HBC-3400 : Maintenance préventive (INST) terminée		EL-FRANIG-05	
Gabes : Gabes Station : Graissage des vannes		BAGUEL-01	
EL_FRANIG : process : EFR#1 +EFR#6 sur séparateur production		BAGUEL-02	
process : Torchage EFR-4		TARFA-02ST	
process : Intervention d'isolation des perfs du puits EFR-4 en cours			

Intranet values	
BAG oil (bbls)	0
EFR oil (bbls)	0
BAG gas (mmscf)	0
EFR gas (mmscf)	0
Pseudo LPG (mmscf)	0.000
Winstar gas transportation (mmscf)	1075
Total equivalent bbls	0

