

RFT RESULTS

Well: 31/3-2

Test No./ Run No.	Depth. (m RKB)	P.H. (bara)	P.F. (bara)	PERM. (Remarks)	Test No./ Run No.	Depth (m RKB)	P.H. (bara)	P.F. (bara)	PERM (Remarks)
RUN 4A (1)					RUN 4C (3)				
1/1	1567.5	189.061	-	(No seal)	1/3	1725.5	207.659	173.404	Very good
2/1	1567.6	189.095	158.154	Sample 1	2/3	1772.5	213.233	178.098	Very good
Segregated sample no. 1 at 1567.6 m:					3/3	1798.0	216.238	180.630	Very good
2 ³ / ₄ gal: 0.392 Sm ³ gas, 6.1 l. oil, oil gravity					4/3	1834.5	220.570	184.292	Very good
28° API at 45° F					5/3	1852.75	222.734	186.109	Very good
opening pressure - 113.55 barg.					6/3	1889.0	227.032	189.742	Very good
1 gal opening press: 97.79 barg.					7/3	1908.5	229.345	191.697	Very good
					8/3	1969.0	236.536	197.994	Low
					9/3	1975.0	237.524	198.489	Low - Good
					10/3	1982.5	238.163	199.232	Good
					11/3	2022.0	242.812	-	Poor
					12/3	2021.8	242.785	203.176	Good
					13/3	1576.0	190.445	159.193	Sample 3
RUN 4B (2)					Segregated sample No. 3 at 1576 m.				
1/2	1567.5	188.996	-	(No seal)	2 ³ / ₄ gal: 10 l. mudfiltrate/water				
2/2	1567.6	188.999	157.837	Very good	Opening pressure - 0.				
3/2	1568.5	189.102	157.913	Very good	1 gal opening pressure - 3.44 barg.				
4/2	1570.0	189.284	158.257	(Supercharged)	RUN 4D (4)				
5/2	1571.5	189.480	158.154	Very good	1/4	1567.6	188.895	157.810	Sample 4
6/2	1573.0	189.677	158.292	Good	Segregated sample No. 4 at 1567.6 m:				
7/2	1574.5	189.852	158.409	Very good	2 ³ / ₄ gal: 0.430 Sm ³ gas, 7.75 l. oil,				
8/2	1576.0	190.052	158.539	Very good	oil gravity 27.5° API at 44° F				
9/2	1577.5	190.189	158.608	Good	Opening pressure - 103.23 barg.				
10/2	1577.5	190.187	158.594	Good	1 gal opening pressure - 92.91 barg.				
11/2	1580.5	190.529	158.863	Good	<p>Notes: All pressure readings from HP - gauge (bara). No corrections applied.</p> <p>Mudfiltrate (pit): 55.000 ppm (Cl⁻)</p> <p>P.H. = Hydrostatic pressure (average of pressure before and after test).</p> <p>P.F. = Formation pressure.</p> <p>Max. rec. downhole temp.: 69.2°C.</p>				
12/2	1582.0	190.733	159.035	Very good					
13/2	1587.5	191.366	159.592	Very good					
14/2	1611.5	194.209	161.994	Very good					
15/2	1624.5	195.757	163.295	Very good					
16/2	1674.5	201.699	168.312	Very good					
17/2	1695.0	204.136	170.356	Very good					
18/2	1725.5	207.729	173.418	Very good					
19/2	1577.8	190.403	158.973	Sample 2					
Segregated sample No. 2 at 1577.8 m									
2 ³ / ₄ gal: Tr gas, Tr oil, 10 l. mud - filtrate/water									
Opening pressure - 13.76 barg									
1 gal opening pressure - 0.									

DST RESULTS 31/3-2

Perforated interval : 1567 - 1577 m

Oil rate : 1271 ,9 Sm³/day

Gas rate : 562,588 x 10³Sm³/day

Choke size : 63,5mm

Oil gravity : 27,5° API

Gas gravity : 0.620 (air = 1)

GOR : 442,3 Sm³/Sm³

WHP : 60 ,67 barg

CO₂ : 1,0%

BHT : 69,5°C

6.4 Mud report

36" hole section -----

This section was drilled using seawater/high viscous slugs. Drilling progressed quickly to 415 m where boulders were encountered and drilling could not progress at all. The well was re-spudded and drilled to 452 m. Boulders between 415 and 421 m were drilled slowly. The hole was displaced to 1.35 rd mud and the casing was run.

26" hole section -----

This section was drilled down to 629 m with a 17 1/2" bit and then opened up to 26". The mud utilized was prehydrated gel/seawater with sweeps of high viscous 1.20 rd mud.

The hole was displaced to 1.35 rd while logging the 17 1/2" pilot hole, and the same procedure was repeated prior to running 20" casing. No severe hole problems were encountered.

17 1/2" hole section -----

This section of hole was drilled to 1515 m utilizing a KCL/Polymer mud. To attain the desired cuttings condition, the K+ concentration was kept in the 45-48 ppb range. The mud weight, started at 1.20 rd and increased to 1.32 rd at the end of the section.

Running the logs, the first two runs would not pass 617 and 619 m due to a very gummy formation just below the 20" shoe. Made a wiper trip and cleaned out 610-630 m.

Spotted a 100 bbls highly viscous 1.50 rd pill 630 m and pulled out for logging. 21 m of fill was experienced while logging. Cleaned out hole after logging and spotted a highly viscous weighted pill on bottom and landed csg. at 1502 m. No returns while circulating. Approx. 1300 bbls was lost to the formation and behind the casing.

12 1/4" hole section

This section was drilled down to 2090 m using a coring fluid controlling the chlorides in the 50-55000 ppm range.

Mud weight was 1.20. No mud problems were experienced apart from high pH after squeezing cement around the 13 3/8" casing shoe. Spotted cement on bottom. Cleaned out to 1850 m. Set 9 5/8" casing at 1806 m.

Testing

The casing was circulated clean with seawater and displaced to CaCl_2 brine.

TABLE B-5

MUD MATERIAL CONSUMPTION

<u>Material</u>	<u>Quantity</u>	<u>Unit/Weight</u>
Magcobar	453	m/t
Magcogel	94	m/t
Caustic Soda	77	25 kg/sx
Soda Ash	13	50 kg/sx
SAPP	16	50 kg/sx
Potassium Nitrate	24	50 kg/sx
KCl sxs	1505	50 kg/sx
KCl brine	1127	bb1
Celpol Reg.	197	25 kg/sx
XCD Polymer	86	50 kg/sx
Magco Polysal	265	25 kg/sx
Spersene	9	25 kg/sx

Note: The quantities of mud materials given above do not include any losses, nor do they account for any inaccuracy in weight measurements.