

# R.F.T. RESULTS

No.	Depth. (MRKB)	P.H. I	PF	PHA	PERM.						
<b>RUN 1.</b>						<b>RUN 1</b>					
1/1	2570.5	4570	—	—	Not Stable	45/1	2740	4858	—	4858.3	Tight
2/1	2570.5	4564	—	4567	Tight	46/1	2716.8	4817.4	—	4817.7	Tight
3/1	2570.7	4565	—	4565	Tight	47/1	2712.5	4809.6	—	4810.9	Tight
4/1	2684.5	4760	—	4766	Tight	48/1	2704.2	4795.1	—	4795.1	Tight
5/1	2685.5	4763	4232.6	4764	Good	49/1	2704.7	4795.8	—	4796.8	Poor Seal
6/1	2687.4	4768	—	4767	Tight	<b>RUN 2</b>					
7/1	2688.5	4768	4234.9	4769	Fair-Good	1/2	2732.8	4848.9	4280.8	4848.1	Plugged
8/1	2690	—	4236.4	4771.9	Fair-Good	2/2	2732.8	4848.2	4280.9	4848	Plugged
9/1	2690.5	4773.5	4238.2	4773	Fair-Good	3/2	2732.3	4849.2	—	4847.7	Plugged
10/1	2691	4776	4237.6	4773.5	Fair-Good	4/2	2736	4853.8	4281.7	—	Plugged
11/1	2692.7	4776.7	4239.8	4776.2	Fair-Good	5/2	2737	4855.8	4286.8	4855.1	Fair
12/1	2694.4	4780.5	4241.2	4779.5	Fair-Good	6/2	2736	4853.8	4287.1	4853	Fair
13/1	2696	4783.5	4281.6	4781.9	Fair-Good	7/2	2732.8	4847.3	—	—	Plugged
14/1	2701	4790.4	—	4790.8	Tight	8/2	2732.8	4847.3	4280.2	4846.8	Plugged
15/1	2704.2	4795.8	—	—	Unreliab.	9/2	2732.2	4845.8	4280.3	4843.2	Sample 2
16/1	2704.2	4796.1	—	—	Unreliab.	Took segregated sample No. 2 at 2732.2 m and recovered from 2 <sup>3</sup> / <sub>4</sub> gal. chamber: 0.05 l oil, 0.94 cuft gas and 9.25 l water/filtrate, - 44.000 ppm cl <sup>-</sup> . Opening Pressure 400 PSIG. 1 gal chamber plugged.					
17/1	2712.2	—	—	4810.6	Unreliab.	<b>RUN 3</b>					
18/1	2716.8	4818.1	—	4781.4	Unreliab.	1/3	2729	4816	4250	4815	Sample 3
19/1	2690.5	4771.2	4236.0	4771.1	Sample 1	Took segregated sample No. 3 at 2782.2 m and recovered from 2 <sup>3</sup> / <sub>4</sub> gal chamber: 0.25 l oil, 1.52 cuft gas, 8.75 l water/filtrate 44.000 ppm cl <sup>-</sup> . Opening pressure 500 PSIG.					
Took segregated sample at 2690.5 m and recovered from 2 <sup>3</sup> / <sub>4</sub> gal. chamber: 5.8 l oil, 36° API, 18.96 cuft gas, 2.3 l water/filtrate - 44.000 ppm cl <sup>-</sup> . Opening Pressure, 1800 PSIG.						<b>RUN 4</b>					
20/1	2724.1	4830.3	—	4830.5	Tight	1/4	2737.5	4826	4243	4823	Sample 4
21/1	2725.8	4834.1	4274.1	4833.7	Good	segregated sample No. 3 at 2737.5 m. 2 <sup>3</sup> / <sub>4</sub> gal chamber: - Tr oil, 0.5 cuft gas, 9.75 l water/filtrate - 44000 ppm cl <sup>-</sup> . Opening pressure 250 PSIG.					
22/1	2721	4836	4274.1	4835	Good	l gal chamber: - Tr oil, 0.15 cuft gas, 3.25 l water/filtrate - 37.000 ppm cl <sup>-</sup> .					
23/1	2728.3	4838.6	4274.2	4838	Good	Note: HP guage used, no DP correction required. pressures in PSIA except where stated.					
24/1	2729	4839.3	4275.9	4839.3	Good						
25/1	2729.4	4840.4	4275.8	4840.14	Good						
26/1	2731	4843.4	4277.6	4843.2	Good						
27/1	2732	4845.3	4278.7	4845.1	Good						
28/1	2733.7	4848.5	—	4848.3	Tight						
29/1	2735	4851.6	—	4851.2	Tight						
30/1	2735.5	4852.1	—	4851.7	Tight						
31/1	2736.5	4854.2	4287.9	4853.6	Good						
32/1	2738	4856.6	4287	4856.3	Good						
33/1	2740	4860.2	4294.2	4860.1	Low						
34/1	2742	4864.1	—	4863	Tight						
35/1	2747.5	4873.8	4297.1	4873.7	Good						
36/1	2752.5	4882	4303.2	4881.7	GOOD						
37/1	2756.2	4889.4	4309.2	4888.5	Good						
38/1	2760	4894.5	4313.9	4894	Good						
39/1	2765	4904.7	4321	4904.6	Good						
40/1	2770	4913.1	4463.9	4913.1	Poor Seal						
41/1	2770.5	4914	4329	4913.5	Good						
42/1	2775	4921.8	4335.3	4921.65	Good						
43/1	2781	4932	4343	4931.6	Poor Seal						
44/1	2781.5	4933.3	4344.7	4932.9	Good						

## DST RESULTS

DST 1	DST 2
Perforated Interval : 2743 - 2761 m Final choke size : 44/64" Water flow rate : 1260 BW/D 1st injection rate : 844 BW/D Well head pressure : 2000 PSIG 2nd injection rate : 7370 BW/D Well head pressure : 2400 PSIG BS + W : TR CO <sub>2</sub> : 0.4% H <sub>2</sub> S : 0 K : ~ 52 MD	Perforated Interval : 2727 - 2733 m Choke size : 28/64" Oil flow rate : 2045 STB/D Oil gravity : 32.2° API Gas flow rate : 1.29 MM SCF/D Gas gravity : 0.780 Seperator G.O.R. : 630 SCF/STB. Well head pressure : 985 PSIG Well head temp. : 67° F BS + W : 0 CO <sub>2</sub> : 0 H <sub>2</sub> S : 0 K : 89 MD.
DST 3	
Perforated interval : 2689 - 2692 m Choke size : 28/64" Oil flow rate : 2360 STB/D Oil gravity : 34.9° API Gas flow rate : 1.4 MM SCF/D Gas gravity : 0.724 Seperator G.O.R. : 593 SCF/STB Well head Pressure : 1220 PSIG Well head temp : 72° F BS + W : TR CO <sub>2</sub> : 0 H <sub>2</sub> S : 0 K : 1700 MD	

### 6.3 Mud report

#### 36" Hole, 30" casing

The 36" hole was drilled to 217 m using sea water and flushed with high viscosity spud mud with returns to the sea bed. The 30" casing was run and cemented. Materials used in this section were Bentonite, Caustic Soda, Soda Ash and Lime.

#### 26" hole section, 20" casing

The 17 1/2" pilot hole was drilled to 969 m. Prehydrated Bentonite was used followed with additions of sea water and prehydrated Bentonite and Lime to give desired properties. The riser was displaced to sea water before the hole was underreamed to 26". Prior to running the 20" casing the hole was reamed from 491 m to 507 m and from 959 m to 969 m. Circulated and conditioned the mud before running the casing. The casing was cemented with the shoe at 601 m.

Materials used were Barite, Bentonite, Caustic Soda, Soda Ash and Lime.

#### 17 1/2" hole, 13 3/8" casing

Before drilling out cement in 20" casing shoe, the mud weight was raised to 1,20 rd. The 17 1/2" hole section was drilled to 2515 m using a KCl/Drispac mud. Drilled the 17 1/2" hole in steps to 1285 m, 1463 m, 1917 m, 2276 m, 2322 m, 2383 m and 2515 m. Had some problems with tight hole in this section. Had some fluid loss due to heave and screen blinding.

The mud weight in this section was raised from 1,20 rd at casing shoe to 1,48 rd at 2198 m.

Before running the 13 3/8" casing, 1 bbl WF-2058 corrosion inhibitor was added per 1000 bbls of mud.

Materials used were Barite, Bentonite, Caustic Soda, Soda Ash, Drispac R, Drispac SL, KCl, DD, FMC, SAAP, Bicarbonate, Polysal, WF-2058 and Magcolube.

12 1/4" hole, 9 5/8" casing

The 12 1/4" hole was drilled to 2898 m and KCl/Polysal mud was used. The mud weight in this section was in the first part 1,30 rd, and was lowered to 1,24 rd at 2650 m. Core samples were taken from 2686 m to 2784 m.

Wiper trip after logging showed good hole conditions and the 9 5/8" casing was run with no problems with the shoe at 2878 m.

Materials used in this section was Barite, Bentonite, Caustic Soda, Polysal, Bicarbonate, XC-Polymer, SAPP.