

MATERIAL CONSUMPTION

WELL LS/8-1

UNIT	DEPTH	BARITE (BX)	BENTONITE Base 5%	LIGNO-SULFONATE	CAUSTIC	BICARB SODA ASH	CMC LV HV	MICA F C	Not Pump E	PIPE FREE	DRILL DET	STARCH	X-C POLYMER	LS-EMITE	DRIZEL	GYP	ALL-STEERATE	COST OF MUD	CEMENT G	Calc 5% 50	DRL. WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS
		100#	100# 50kg	25kg	25kg	50kg	25kg	25kg	25kg	45gal	25kg 50#	50#	50kg					94	gal	BBL	BBL		BBL			
18	July	140	52	213	6													1561		997	75			2.08		
19		187		115	2													3287	1131	700	50					
20		207																0		360	55					
21		515																0		340	105				1.33	
22		515																0		130	15	70			1.23	
23		515	293	231	12													3089		710	90					
24		515	318	69	4													2769		300	10	70			1.99	
25		515	635	135	6													5582	2264	1270	55	40			Plus 15 BBL ECONOLITE	
26		515		90	13	57							112					5289	650	1460	5	50			MIXING GYP MUD	
27		515																0		120	60	45				
28		519		173	2		10			28			36					6517		680	50				1.68	
SUB TOTAL		1298	1029		45	57	10			28			148					28,094	3395	650	7067	145	700		8.31	Econolite = 15661
CUMULATIVE																										

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UNIT	DEPTH	BARITE (BX)	BENTONITE	LIGNO-SULFONATE	CAUSTIC	GRANULAR SOLA POW	CHE L/2	MICA F/C	NUT AND F/C	PIPE TAPES	DRILL BIT	STRONG	XC POLYMER	LIGNITE	DRILLAGE	GYP	SI STONEWALL	COST OF MUD	CEMENT	CaCl ₂	DRL WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS
DATE	METERS	100 LB	100 LB	25 kg	25 kg	50 kg / 100 kg	25 kg / 100 kg	25 kg / 25 kg	45 kg / 45 kg	25 kg / 25 kg	20 kg / 25 kg	20 kg / 25 kg	40 kg / 40 kg					24 LB	GAL	BBL	BBL	BBL	BBL	BBL		
9 AUG	2324			18	18	18/0				/7	/12	59/						11,186			260	100				
10	2400	318		8	10	6/6				/2		32/						3,266			120	100				
11	2519	276		40	31	19/0				/12		66/						8030			500	90				
12	2539	211		16	12	16/-				/4		23/						3946			120	100		1.32		
13	2582	260		20														6105.10			200	25	90		3.48	
14	2701	78		5	6	20/5				28/-								4741.86			380	90				
15	2806	520	162	8	6	0/7												7409.90			540	70	90			
16	2842	213																2271.21			150	90				
17	2886	81		7	9					17/-								2315.18			260	130				
18	2886																	-0-			214	30				
19	2890	131	27	3	9													2083.19			600	10	65			
SUB-TOTAL		2088	189	125	101	-0-	79/18	-0-	-0-	-0-	45/25	0/12	160/-					56,615	-0-	-0-	3344	105	975		4.80	
CUMULATIVE																										

MATERIAL CONSUMPTION

WELL 1578-1

UNIT	DEPTH	BARITE (SK)	BENTONITE	LIGNO SULFONATE	CAUSTIC	BICARB	SODA ASH	CHEM	M/M F/C	W/T RING F/C	PER F/C	DRUG DRY	XO POLYMER	LIGNITE	DRY SPAC	GYR	SI STRONITE	COST OF MUD	CEMENT	PER C/L	DRL. WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS
DATE	METERS	100LB	100LB	25kg	25kg	50kg	25kg	25kg	25kg	45gal	25kg	50lb	40kg					546	6AL	88L	133L	88L	133L	133L		
20 AUG	2890	27	81	2	4	0/1												2066		500	25	55			NR-6L 35 gal DR-2L 350 gal HLX-2248 1365 gal	
21	2894	23	8	8	6	0/4					3/0							750.82		310		44				
22	2944	210	46	2	15	0/4	19/4													180		106				
23	3079	416	117		5		6/0											5452		540		92				
24	3227	208	23	2	16		14/0											3071		400		102				
25	3356	23	15	4	16		15/0											2137.12	248	580	10	100		2.46	POLY GAL 2	
26	3467	687	116	7	16		15/0					20/0						8808.62		336	20	106				
27	3570	1436	154	16	6		30/0											14,831		900		100				
28	3570		154															1738.97		240		80				
29	3633	1000		22	20		7/0					10/0						10,617				100				
30	3658	517	97		2													5783		450		80				
SUB TOTAL		4547	811	63	106	0/0	109/4	0/0	0/0	0/0	3/0	30/0	0/0					59,170	2314	0/0	4436	55	965		2.46	
CUMULATIVE																										

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UNIT	DEPTH	BARITE (BX)	BENTONITE	LIGNO-SULFONATE	CAUSTIC	BT CAPB	3000 AW	CMC LV	MECA F	NUT PWD F	PIPE FREE	DEL DET	SZABEK	XC POLYMER	CEMENTITE	DRILL	GYP	AL STERILIZE	COST OF MUD	CEMENT "G"	CaCl ₂	DRL WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS	
METERS	100#	100#	25kg	25kg	50kg	25kg	25kg	25kg	25kg	45gal	25kg	50#	40kg						44#	6AL	88L	88L	88L		88L			
31 Aug.	3667.5	285		5															1672		140		80					
1 SEPT	3678.9		3	2		2/0													230		340		70					
2	3695.75	102	10	10		4/0													1346		260		70					
3	3705.5		2	9		5/0													553		330	125	65					
4	3706.5																		- 0 -		140	130	55					
5	3752	208	23	6	10	10/0							5/0						2951		290		70					
6	3839	311	23	5		7/0													3052		410	35	100					
7	3853	43				4/0													543		300		90		4.07			
8	3923	392	10	10									9/0						3307		500		90					
9	3957	207	15	15									21/0						2706		290		90					
10	3991	311	115	18	9								15/0						5284		400	30	90					
SUB-TOTAL	—	1859	161	69	70	0/0	32/0	0/0	0/0	0/0	0/0	0/0	50/0	0/0					21,644	0	0	3400	320	870	0	4.07		
CUMULATIVE																												

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UNIT	DEPTH	BARITE (SX)	BENTONITE	LIGNO-SULFONATE	CAUSTIC	BIARB	SODA ASH	CMC LV HV	MICA FIC	NET AWK FIC	PIPE FREE	DIRLS DET	STARCH	X-C POLYMER	LIQUITE	BRISQAC	GYP	SI STYMPATE	COST OF MUD	CEMENT "G"	C ₂ H ₂	DRL WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS
DATE		100LB	100LB	25kg	25kg	20kg 20kg	25kg 25kg	25kg 25kg	25kg 25kg	45gal 45gal	25kg 20LB	50lb 25kg	40kg 75kg						94LB	GAL	BBL	BBL	BBL	BBL	BBL		
11 SEPT	3991																		- 0 -			310	70	70			
12	3991	157																	513			320		60			
13	3991																		Adjust 533			270		40			
14	3992	391		19	11									15/0					3784			240	100	60			
15	3992			4	5									3/0					281	1637		460	80	60			CFR 2L - 504 HR12L 252 FL-2L - 720
16	3992	79		5	5									2/0					795			280	77	70			
17	3992																		- 0 -			100	55	50			
18	3992																		- 0 -			140	75	80			
19	3992																		- 0 -			210	25	30			
20	3992																		- 0 -			160	45	120			
21	3992																		- 0 -			30		70			
SUB-TOTAL		627	0	28	21	0/0	0/0	0/0	0/0	0/0	0/0	0/0	23/0	0/0					5906	1637	0	2520	527	710	0	0	
CUMULATIVE																											

MATERIAL CONSUMPTION

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UNIT	DEPTH	BARITE (BX)	BENTONITE	LIGNO SULFONATE	CAUSTIC	BZLABS	SODAS	CNIC LV	NISCA F	NUT PIG F	PIPE FREE	DRILL DIRT	STARCH	X-C POLYMER	UREA	DISSAL	GP	AL STARCH	COST OF MUD	CEMENT	LA CL	DRL. WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS
DATE	METERS	100 LB	100 LB	25 kg	25 kg	50 kg	25 kg	25 kg	25 kg	450 g	25 kg	50 lb	50 lb	40 kg					94 lb	64 lb	88 L	88 L	88 L	85 L	88 L		
22 SEPT	3992	129																	863			85	40				
23	3992	363																	2418		590		30				
24	3992	118	127		8	-/1													3369		159	176	60				
25	4010					8/13													1382		240	146	75				
26	4010			8	2									6/-					925		160	60	55				LIME - 12 RESINEX - 6
27	4037	578	70	12	6	-/4								12/-	-/2				7130		460	70	88				LIME - 14 RESINEX - 14
28	4093	428			11	-/18								12/					6495		180	20	34				LIME - 10 RESINEX - 23
29	4106	355																	2364		100	123	42		2.27		
30	4113.6	313		3	3									3/9					4283		137	115	68				LIME - 3 RESINEX - 3
1 OCT	4139	160		4	4									4/7					3020		200	147	70				LIME - 2 RESINEX - 4
2	4147																		602		350	169	60				LIME 3 RESINEX 3
SUB-TOTAL		2384	197	27	34	0/1	8/35	0/0	0/0	0/0	0/0	0/0	37/16	0/2					32,831	0	0	2576	1111	620		2.27	
CUMULATIVE																											

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UNIT	DEPTH	BARITE (SX)	BENTONITE	LIGNO-SULFONATE	CAUSTIC	BIRARB 50kg 50kg	300g PSH	CMC LK 25kg	MIRA FIC 25kg	WUT PLUG FIC 45 gal 45 gal	PIPE FREE 25kg	DPLG DE-T 50kg	STARCH 50kg	XO POWDER 25kg	LIGNITE 40kg 25kg	DRISDAC 6YP	PI STERILANT	COST OF MUD	CEMENT	CaCl ₂	DRL WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS
		100LB	100LB	25kg	25kg	50kg 50kg	25kg 25kg	25kg 25kg	25kg 25kg	45 gal 45 gal	25kg 50kg	50kg 25kg	40kg 25kg						946	600	80L	80L	80L	80L	80L	
3 OCT	4147																				220	190	70		2.82	DRILLING HALTED FOR RIG REPAIRS
4 OCT	4147	416		1														3193		200	185	60				LIME - 2 RESINEX - 2
5 OCT	4147	184		2									0/5					2454	232	900	171	60				RESINEX - 3
6 OCT	4147	104																735	77	450	170	50				
7 OCT	4147																	- 0 -		193	158	80		2.02		REPAIR BOP STACK
8 OCT	4147																	- 0 -		120	175	50		0.98		NOW to RUN STACK
9 OCT	4147																	- 0 -		90	65	60		4.12		SAME RESINEX - 2
10 OCT	4147			2									4/2					705		90		45				
11 OCT	4147																	- 0 -		100	15	50				NOW to RUN STACK
12 OCT	4147																	- 0 -		60		35				
13 OCT	4147																	- 0 -				50				NOW to RUN STACK
SUB-TOTAL		704		5									4/7					7087	309	2423	1129	610		9.54		
CUMULATIVE																										

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UNIT	DEPTH	BARITE (BX)	BENTONITE	LIGNO-SULFONATE	CAUSTIC	BEARER	SODA ASH	CMC LV	MICA F/E	NUT PING PK	PRE PACE	DRUG DET	STRACH	IC POLYMER	LIGNITE	DEISPAK	GTZ	AL. SILICATE	COST OF MUD	CEMENT	CaCL2	DRL WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS
	METERS	100 LB	100 LB	25 KG	25 KG	50 KG	25 KG	25 KG	25 KG	45 GAL	25 KG	50 LB	25 KG	40 KG					9410	9AL	88L	88L	88L	88L	88L	Lime - 3	
DATE																											
14 Oct	4147	572		2	2								0/2		4/54						120		45				
15 Oct	4147	336	69	3	2	0/1															1000		35				
16 Oct	4147	591		3	5								0/6		5616						180	35	50				Lime - 5 Resinex - 6
17 Oct	4174												0/4		1214						240		85				Lime - 8 Resinex - 5
18 Oct	4220	703	105	5	12	0/1							1/10		8963						600	15	100				Resinex - 0
19 Oct	4260	313	23										1/2		3029						200		75				
20 Oct	4291	416													2770						110		100		7.0		
21 Oct	4300														- 0 -						130		90				TD 4300m 0245mins
22 Oct	4300	155		4									3/0		1735						100		70				Logging
23 Oct	4300	104		1	2								1/0		862						120		70				Resinex - 1
24 Oct															-						200	300	40				NPT Tool stuck
SUB-TOTAL		3170	197	18	23	0/2	-	-	-	-	-	6/24			32002						3000	350	760		7.0		Lime - 16 Resinex - 12
CUMULATIVE																											

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UNIT	DEPTH	BARITE (SK)	BENTONITE	LIGNO-SULFONATE	CAUSTIC	BIRTEX	SOA ASH	CMC LV	MHA F/C	NET PUG F/C	PIPE FEE	DRG DET.	STARCH	KC-POLYMER	LIGNITE	DRIS-PAC	GYP	IN STERILITE	COST OF MUD	CEMENT	C&CL	DR. WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS
DATE		100LB	100LB	25kg	25kg	50kg	50kg	25kg				25kg	25kg						414LB	9AL	BBL	32L			BBL		
5 NOV.	156																		1039			120	50	50			
6 NOV				8	2									8/1					1250			120	50	50			RESINEX - 1
7	363	69	21	5										10/1					4753			180		80			LIME - 1
8	259													0/1					1921			210		50			
9																			- 0 -			60	75	70		8.1	
10																			- 0 -			210		70		3.02	
11																			- 0 -			130	50	70			
12																			- 0 -			220	55	70			
13																			- 0 -			80	50	70			
14																			- 0 -			60	50	60			
15	571			10	4									7/1					4499			100	10	70			
SUB-TOTAL		1349	69	39	11	0	0	0	0	0	0	0	25/4						13462			1190	390	710		11.12	RESINEX : 1 LIME : 1
CUMULATIVE																											

MATERIAL CONSUMPTION

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UNIT	DEPTH	BARITE (BX)		BENTONITE	LIGNO-SULFONATE		CAUSTIC	BICARB	SODA ASH	LIME IV	MICA F/C	NUT PLUG F/C	PIPE FREE	DEL. DET	STAR B4	X-C	LIGNITE	B232AC	GYP	AL-STEP	COST OF MUD	CEMENT	CaCl ₂	DRL WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS	
		100 LB	100 LB	25 KG	15 KG	50 KG	25 KG							25 KG	50 LB								44 LB	9 LB	58 L	88 L	88 L			88 L
16 Dec	4300		3	10	4																732		180	85	70				Resinex - 1	
17		215																			1432		160	30	55	2.07				
18		575	23	1	1	0/1															4925		360	-	60					
19		151			2																1042		180	-	55				Resinex - 1	
20			2																		113		100	-	70	3.71				
21			1																		94		70	-	90				Resinex - 1	
22			53																		352		150	-	60					
23																					- 0 -		100	-	80					
24																					- 0 -		170	-	180					
25																					- 0 -		-	-	130	2.38				
26		155			1																1055		-	-	70					
SUB-TOTAL		1096	82	11	8	0/1															9145		1440	115	920	8.16			RESINEX : 3 - LIME : 17	
CUMULATIVE																														

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UNIT	DEPTH	BARITE (SX)		BENTONITE		LIGNO-SULFONATE		CAUSTIC		BICARB. SODA ASH		CMC LV HV		MICA F/C		NUT PUG P/C		PIPE FREE DRUG DET.		STRECH XC-POLYMER		LIGNITE TP-26 DRIS PAC		67P		PL. STER.		COST OF MUD		CEMENT		CaCl ₂		DRL. WATER		POT. WATER		RIG FUEL		WORKBOAT FUEL		HELICOPTER FUEL		REMARKS			
		100 lb	100 lb	25 Kg	25 Kg	50 Kg	50 Kg	25 Kg	25 Kg	25 Kg	25 Kg	25 Kg	25 Kg	25 Kg	25 Kg	50 lb	50 lb	25 Kg	25 Kg	50 lb	50 lb	25 Kg	25 Kg	50 lb	50 lb	25 Kg	25 Kg	\$	94 lb	GAL.	88L.	88L.	88L.	88L.	88L.	88L.	88L.	88L.									
27 NOV	4300	53	26		2																																						RESINEX: 2				
28		606	100	4	10					13											12/10	3																				RESINEX: 10					
29		363	63																																												
30		235	63		2																2																						RESINEX: 1				
1 DEC				4	11																4/3																						RESINEX: 9				
2																																															
3		20			3																1/2																										
4		239			2																	2																							RESINEX: 1		
5																																															
6																																															
7																																															
SUB-TOTAL		1516	252	8	30					13											19/10																									RESINEX: 23	
CUMULATIVE																																															

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UNIT	DEPTH	BARITE (SK)	BENTONITE	LIGNO-SULFONATE	CAUSTIC	Bi-CARB	SPAN ADJ	CMC LV	MICA F/L	HAT TAG F/L	PIPE FIBRE	DIS. DRY	STRONG	X-C. BINDER	Lignite	DRYING	GYP	AL. STAKE	COST OF MUD	CEMENT	CaCl ₂	DRL. WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS
DATE	meters	100 LB	100 LB	25 kg	25 kg	50 kg	25 kg	25 kg	25 kg	25 kg	25 kg	50 LB							#	94 LB	6 AL	66L	66L	66L		66L	
19 Dec				2										0/2					578	253		240		80			RESINEX: 2 CRILL-31 GAL HRIZL: 16 GAL HLXC: 126 GAL
20																						100		130			
21		236		6										10/1					2966			40	15	80			RESINEX-10
22																						100		35			
23																						400		40			
24																						80	70	40			
25																						100		40			
26																				112		190		70		1.03	
27		155	2											0/1					1337	217		320		70			RESINEX-1
28																						240		70			
29																						260		70		.88	
SUB-TOTAL		391	2	8										10/4					4881	582		2070	85	725		1.91	RESINEX: 13 CRILL: 31 GAL HRIZL: 16 GAL HLXC: 126 GAL
CUMULATIVE																											

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UNIT	DEPTH	BARITE (BX)	BENTONITE	LIGNO-SULFONATE	CAUSTIC	BICARB	SODA ASH	CMC 400	MICA FL	NUT BARK FL	PIPE FILLER	WAX OIL	STARCH	X.C. POWDER	LIGNITE	DRILLING FLUID	AL STEARTE	COST OF MUD	CEMENT	CALZ	DRL WATER	POT. WATER	RIG FUEL	WORKBOAT FUEL	HELICOPTER FUEL	REMARKS
DATE	METERS	100 LB	100 LB	25 KG	25 KG	50 KG	25 KG	25 KG	25 KG		25 KG							B	94 LB	GAL	BBL	BBL	BBL	BBL		
30 DEC																					80	85				
31 DEC																					420	75				
1 JAN	415																									
2																					50	70				
3																			39							
4																					50	85				
5																			539		300	30	2.77			
6																					60	100	1.25			
7																					80	50	3.00			
8																					60					
9																					490					
SUB-TOTAL	415																		578		1590	495	7.02			
CUMULATIVE	28414	3454	900	830	596	338/93	%	%	%	%	124/102	230/174							11079		45200	5253	12390	49.11	RESINEX: 77 CFRIL: 31 GAL MLXC: 126 GAL LIME: 21 HRIL: 16 GAL.	

FORMATION MULTI TESTER (FMT)

After drilling to 3991 m RKB, two FMT runs were conducted. Then drilling to TD at 4300 m RKB, one FMT run was completed.

All pressure points were taken in Jurassic sands. All depths are measured in m RKB.

Run no. 1. Pressure points were taken in the interval 3644 - 3928.1 m. 48 out of 57 pressure tests were successful. Because of a toolfailure, an attempt of taking a segregated sample at 3912.5 failed. The 2 3/4" gal. chamber was filled with mud and mudfiltrate, and the 1 gal. chamber was empty.

Run no. 2. 17 pressure points between 3645 m and 3974 m were taken. Due to the pressure gauge did not work properly, only 1 pressure point was successful. One segregated sample was taken at 3668 m.

2 3/4 gallon chamber:

Opening pressure	-	172.37 bar (2500 psi)
Gas	-	1.78 Sm ³ (63.1 SCF)
Condensate	-	1900 cc
Mudfiltrate	-	100 cc

1 gallon chamber:

Opening pressure	-	131 bar (1900 psi)
Gas	-	0.57 Sm ³ (20.3 SCF)
Condensate	-	500 cc
Mudfiltrate	-	0 cc

Run no. 3. 1 out of 9 pressure points in the interval 4076.5 - 4266 m was successful. An attempt of getting one segregated sample at 4076.5 m failed because of lost seal.

CONCLUSION

From 3643 m to 3698 m a gradient of 0.422 g/cc is established. (See fig.).

A water contact is seen at 3698 m, which is in good agreement with the logs.

From 3698 m to 3871 m a watergradient of 1.013 g/cc is indicated.

In the reservoir from 3911 m to 3929 m a gradient of 0.361 g/cc is established.

From FMT run no. 3 only 1 good pressure point at 4076.5 m is available. This indicates a pore pressure of 1.362 g/cc.

FMT PRESSURE POINTS 15/8-1

Run no. 1

Pressure point no.	Depth (m RKB)	Pressure (cor. for temp.)		Comments
		psia - bar	- g/cc	
1	3927.9	7809 - 538.41	- 1.399	Tight
2	3928.1	7810 - 538.48	- 1.400	"
3	3927.5	5325 - 367.15	- 0.954	Plugged
4	3925.5	6929 - 477.74	- 1.243	Very good perm.
5	3923.5	6930 - 477.81	- 1.243	Good permeability
6	3921.5	6927 - 477.60	- 1.243	"
7	3918	6925 - 477.46	- 1.244	"
8	3915.5	6924 - 477.40	- 1.245	"
9	3912	6922 - 477.26	- 1.246	"
10	3923.5	6931 - 477.88	- 1.244	"
11	3927	6935 - 478.15	- 1.243	Medium perm.
12	3920	6931 - 477.88	- 1.245	Good permeability
13	3918	6927 - 477.60	- 1.246	"
14	3915.5	6929 - 477.53	- 1.245	"
15	3871	6839 - 471.53	- 1.244	"
16	3869	-	-	Tight
17	3869.5	6834 - 471.19	- 1.243	Medium perm.
18	3765.5	6687 - 461.05	- 1.250	Good permeability
19	3764	6682 - 460.71	- 1.250	"
20	3762.5	6679 - 460.50	- 1.250	"
21	3761	6676 - 460.29	- 1.250	"
22	3765.5	6683 - 460.78	- 1.249	"
23	3762.5	6678 - 460.43	- 1.249	"
24	3736	6642 - 457.95	- 1.251	"
25	3734.5	6639 - 457.74	- 1.251	"
26	3733	6636 - 457.54	- 1.251	"
27	3731	6633 - 457.33	- 1.251	"
28	3754.5	6757 - 465.88	- 1.267	Supercharge?
29	3750.5	6661 - 459.26	- 1.250	Medium perm.
30	3745.5	7454 - 513.94	- 1.401	Tight

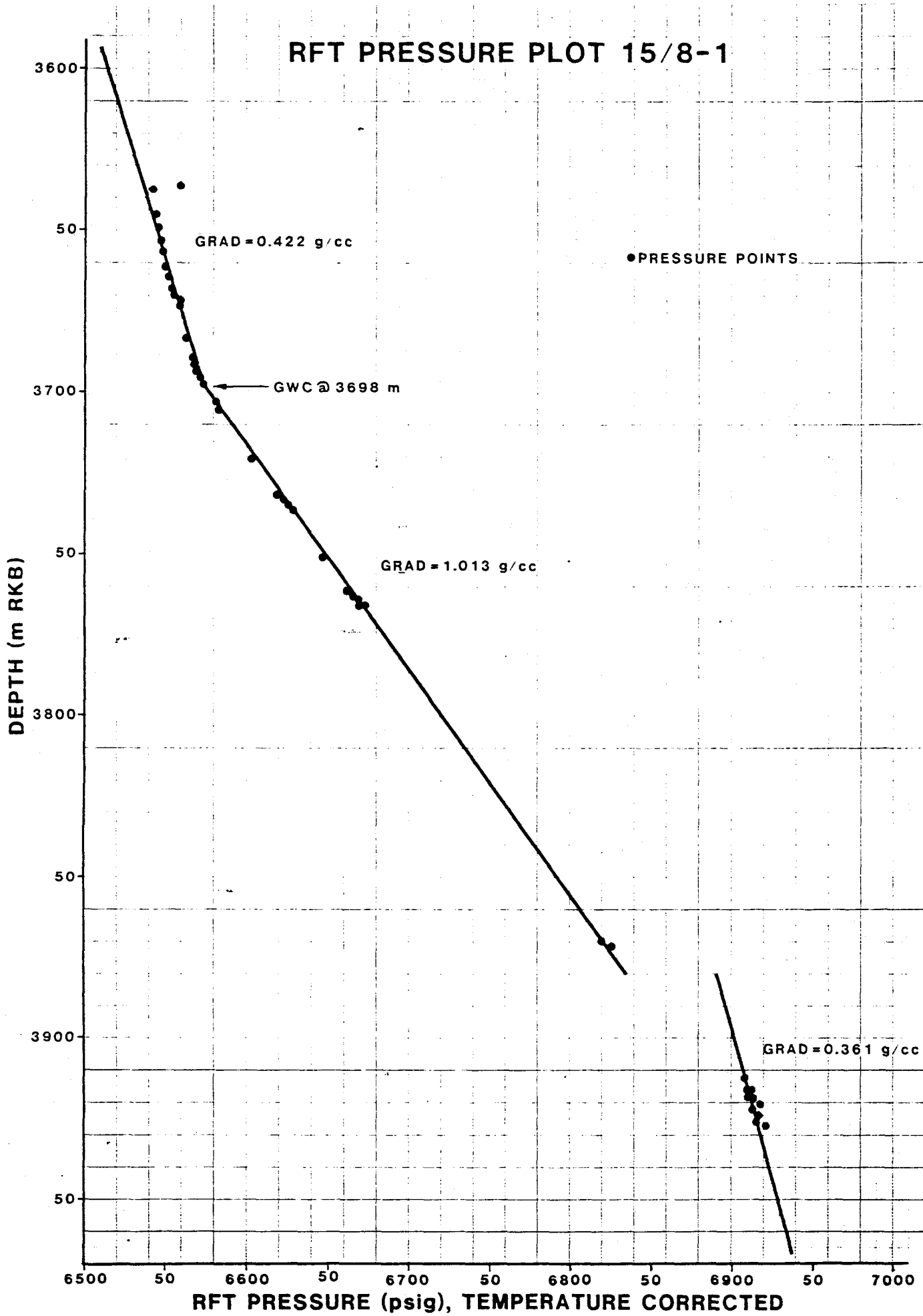
Pressure point no.	Depth (m RKB)	Pressure (cor. for temp.)			Comments
		psia	- bar	- g/cc	
31	3740	6672	- 460.02	- 1.256	Tight
32	3720	6617	- 456.23	- 1.252	Good permeability
33	3705	6597	- 454.85	- 1.253	"
34	3703	6595	- 454.71	- 1.254	"
35	3697	6587	- 454.16	- 1.254	"
36	3695	6585	- 454.02	- 1.255	"
37	3693	6583	- 453.88	- 1.255	"
38	3691	6582	- 453.81	- 1.255	"
39	3689	6581	- 453.74	- 1.256	"
40	3683	6577	- 453.47	- 1.257	"
41	3673	6572	- 453.12	- 1.260	"
42	3671.5	6571	- 453.05	- 1.260	"
43	3669.5	6569	- 452.92	- 1.260	"
44	3668	6568	- 452.85	- 1.260	"
45	3664	6566	- 452.71	- 1.261	"
46	3662	6572	- 453.12	- 1.263	Medium perm.
47	3661	6564	- 452.57	- 1.262	Good permeability
48	3653	6561	- 452.37	- 1.264	"
49	3651.5	2715	- 187.19	- 0.523	Tight
50	3652.5	6561	- 452.37	- 1.264	Good permeability
51	3649	6559	- 452.23	- 1.265	Medium perm.
52	3647.5	6566	- 452.71	- 1.267	"
53	3646	6573	- 453.19	- 1.269	"
54	3645	6558	- 452.16	- 1.267	"
55	3644	6778	- 467.33	- 1.309	Supercharge?
56	3656.5	6562	- 452.43	- 1.263	Good perm.
57	3912.5	-	-	-	Tried to sample, the FMT tool did not work properly, no sample

Pressure point no.	Depth (m RKB)	Pressure (cor. for temp.)			Comments
		psia	bar	g/cc	
<u>Run no. 2</u>					
1	3915.5	-	-	-	Pres. gauge failed
2	3915.5	6833	- 471.12	- 1.228	"
3	3915	6951	- 479.25	- 1.250	"
4	3915	6930	- 477.81	- 1.246	"
5	3912.5	6930	- 477.81	- 1.247	"
6	3668	6980	- 481.25	- 1.339	"
7	3668.5	6982	- 481.39	- 1.340	"
8	3670	6985	- 481.60	- 1.340	"
9	3671	6977	- 481.05	- 1.338	"
10	3672	6977	- 481.05	- 1.338	"
11	3667.5	6977	- 481.05	- 1.339	"
12	3660.5	6953	- 479.39	- 1.337	"
13	3656.5	7104	- 489.80	- 1.368	"
14	3645	7128	- 491.46	- 1.377	"
15	3668	6568	- 452.85	- 1.260	Smplng, gd pres pnt
16	3974	-	-	-	Pres.gauge failed
17	3973.5	1891	- 130.38	- 0.335	"

Run no. 3.

1	4266	2807	- 193.54	- 0.463	Tight
2	4237	2913	- 200.85	- 0.484	"
3	4143.8	7974	- 549.79	- 1.355	"
4	4090.8	7684	- 529.79	- 1.322	"
5	4091.8	8069	- 556.34	- 1.388	Supercharge?
6	4091.8	367	- 25.30	- 0.063	Tight
7	4091.8	1776	- 122.31	- 0.305	"
8	4082	1457	- 100.46	- 0.251	"
9	4076.5	7890	- 544.00	- 1.362	Sampling, good permeability Lost seal on 1 gallon chamber

RFT PRESSURE PLOT 15/8-1



DRILL STEM TESTS (DST)

Four DST-tests were carried out in well 15/8-1 in Jurassic sandstone. The test objectives for all tests were to determine the well productivity, original reservoir pressure and temperature, formation permeability - thickness, reservoir fluid composition and PVT properties. Results of the tests are presented in the attached table .

DST no. 1. (perf. interv.: 4079 - 4085, 4090 - 4093 m RKB)

After an initial flow and build up period, the well was flowed on 19.1 mm (48/64") choke for more than 11 hours producing gas and condensate. Two sets of PVT-samples were taken at the separator.

DST no. 2. (perf. interv.: 3911 - 3926 m RKB)

The test consisted of an initial flow and an initial shut in followed by a main flow period. The well was produced on a 12.7 mm (32/64") choke and a 16.7 mm (42/64") choke for 6.5 hours and 6.4 hours respectively. The produced gas/liquid ratio and the gravity of the stock tank liquid indicate that the reservoir fluid may be either gas/condensate or volatile oil. Two sets of PVT samples were taken at separator.

DST no. 3. (perf. interv.: 3688 - 2697 m RKB)

An initial flow and build-up period was followed by a final flow period. The well produced gas and condensate through a 22.2 mm (56/64") choke for 11.5 hours. Two sets of PVT samples were taken at separator.

DST no. 4. (perf. interv.: 3643 - 3653 m RKB)

The test sequence was the same as in DST no. 3. Gas and condensate was produced through a 22.2 mm (56/64") choke for 7.8 hours. Two sets of PVT samples were taken at separator.

DST SUMMARY, 15/8-1

DST NO.	1	2	2	3	4
Perf. interval (m RKB)	4079-85, 4090-94	3911-26		3688-97	3643-53
Choke (mm)	19.1	12.7	16.7	22.2	22.2
Gas rate (Sm ³ /D)	427000	382000	486000	657000	550000
Cond. rate (Sm ³ /D)	316	360	399	408	290
GCR (m ³ /m ³)	1351	1061	1218	1610	1897
Gas sp. gravity	0.851	0.944	0.944	0.84	0.832
Cond. sp. gravity	0.754	0.806	0.811	0.846	0.799
CO ₂ (%)	7	> 10	> 10	15	16 → 4
H ₂ S (ppm)	0	5	8	0	0
BSW (%)	1	2	1	0.1	1.5
P _{wfs} (bara)	337.31	450.85	447.06	423.06	325.20
T _{res} (°C)	135.0	126.7	126.7	119.4	116.7

Preliminary build

up analysis:

P* (bara)	531.63	473.50		448.92	447.30
kh (md m)	118	2829		3044	801
k (md)	14	164		265	80
S _t	4.5	18.5		15	42