

Well Test Report Continuation Form

D.S.T No.2

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TIME DATA		CHOKE SIZE 64THS. INCH	SUBSURFACE		WELLHEAD DATA			AMBI- ENT TEMP. °F	SEPARATOR		SAMPLES			G.A.S. FLOW RATE Interval	conden sate FLOW RATE BBL/DAY	conden sate FLOW RATE BBL/DAY	GAS OIL RATIO CF/BBL	CHLORIDE PPM
DATE & TIME HOURS	ELAPSED TIME		PRESSURE PSI	TEMP. °F	TUBING PRESS. PSI	TEMP. °F	Down stream choke PSI		PRESSURE PSI	TEMP. °F	GRAVITY		BS&W %					
										OIL °API	GAS SP. GR.							
26/5 81	1330	24			3580	84	1100	940	40	51.8	0.618	0	13.235	3.3	316.8	41777		
	1345	"			3580	84	1080	940	41	51.8	0.618	0	13.222	3.2	307.2	43040		
	1400	"			3540	84	1020	930	39	51.8	0.618	0	13.179	4.2	403.2	32686		
	1415	"	Meter factor = 0.8		3580	85	1010	930	42	51.8	0.618	0	13.140	3.3	316.8	41477		
	1430	"			3595	85	1008	945	40	51.8	0.618	0	13.061	3.3	316.8	41227		
	1445	"			3585	84	1020	935	38	51.8	0.618	0	12.806	2.3	220.8	57998		
	1500	"			3584	84	1030	930	40	51.8	0.618	0	12.748	2.5	240.0	53116		
	1515	"			3584	86	1110	930	40	51.8	0.618	0	12.748	2.6	249.6	51074		
	1530	"			3584	88	1100	940	41	51.8	0.616	0	12.608	3.5	336.0	37523		
	1545	"			3582	85	1100	930	42	51.8	0.616	0	12.744	3.4	326.4	39044		
	1600	"			3589	86	1050	930	42	51.8	0.616	0	12.744	3.0	288.0	42480		
	1615	"			3580	86	1100	935	42	51.7	0.616	0	12.777	4.2	403.2	31688		
	1630	"						920	40	51.7	0.616	0	12.610	3.0	288.0	43784		
	1644	"			Switch flare to opposite boom													
	1645	"	Meter factor = 0.8		3570	86	1050	930	42	51.7	0.616	0	12.744	3.3	316.8	40227		
	1700	"			3592	86	1100	930	42	51.7	0.616	0	12.744	2.5	240.0	53100		
	1715	"			3592	86	1100	935	42	51.7	0.616	0	12.777	3.6	345.6	36970		
	1730	"			3582	86	1100	900	42	51.7	0.616	0	12.656	3.0	288.0	43944		
	1745	"			3590	86	1100	910	41	51.7	0.616	0	12.737	3.3	316.8	40405		

Well Test Report Continuation Form

TIME DATA		CHOKESIZE 64THS. INCH	SUBSURFACE		WELLHEAD DATA			AMBI- ENT TEMP °F	SEPARATOR		SAMPLES			GAS FLOW RATE MMSCFD	conden sate FLOW RATE interval	conden sate FLOW RATE BBL/DAY	GAS OIL RATIO CF/BBL	CHLORIDE PPM
DATE & TIME HOURS	ELAPSED TIME		PRESSURE PSI	TEMP. °F	TUBING PRESS. PSI	TEMP. °F	down stream choke PSI		PRESSURE PSI	TEMP. °F	GRAVITY		BS&W %					
									OIL °API	GAS- SP. GR.								
26/5-81 1800		24			3580	86	1100		920	41	51.7	0.616	0	12.806	3.0	288	44465	
1815		"			3590	86	1110		905	41	51.7	0.616	0	12.496	3.6	345.6	36157	
1830		"			3580	85	1020		875	40	51.7	0.616	0	12.706	3.8	364.8	34830	
1845		"			3587	85	1020		875	40	51.7	0.616	0	12.506	3.5	336.0	37220	
1900		"			3585	86	1000		875	40	51.7	0.616	0	12.706	2.6	249.6	50905	
1915		"							885	39	51.7	0.616	0	12.384	1.9	182.4	678.94	
1930		"							872	39	51.7	0.616	0	12.651	3.0	288.0	43927	
1945		"			3590	86	1100		890	40	51.7	0.616	0	12.303	3.8	364.8	33725	
2000		"			3590	86	1100		870	40	51.7	0.616	0	12.625	3.6	345.6	36530	
2015		"			3584	84	1000		870	38	51.7	0.616	0	12.649	1.4	134.4	94114	
2030		"			3587	84	1020		870	38	51.7	0.616	0	13.039	5.8	556.8	23417	
2045		"			3584	86	1100		860	38	51.7	0.616	0	12.965	1.8	172.8	75028	
2100		"			3584	86	1050		865	39	51.7	0.616	0	12.989	3.7	355.2	36568	
2115		"			3588	85	1050		855	40	51.7	0.616	0	12.902	2.8	268.8	47988	
2130		"			3588	85	1050		860	40	51.7	0.616	0	12.748	2.3	220.8	57735	
2145		"			3582	86	1100		865	40	51.7	0.616	0	12.784	4.0	384.0	33291	
2200		"			3582	86	1000		865	40	51.7	0.616	0	13.166	2.6	249.6	52748	
2215		"			Meter Factor = .84				855	40	51.7	0.616	0	12.517	3.1	297.6	42059	
2230		"			3584	85	1000		855	40	51.7	0.616	0	12.517	3.7	355.2	35239	

Well Test Report Continuation Form

TIME DATA		CHOKESIZE 64THS. INCH	SUBSURFACE		WELLHEAD DATA			AMBI- ENT TEMP °F	SEPARATOR		SAMPLES			GAS FLOW RATE MMSCFD	conden sate FLOW RATE interval	conden sate FLOW RATE LBBL/DAY	GAS OIL RATIO CF/BBL	CHLORIDE PPM
DATE & TIME HOURS	ELAPSED TIME		PRESSURE PSI	TEMP. °F	TUBING PRESS. PSI	TEMP. °F	down stream choke PSI		PRESSURE PSI	TEMP. °F	GRAVITY		BS&W %					
											OIL °API	GAS SP. GR.						
26/5 81 2245		24			3584	86	1000		860	40	51.7	0.616	0	12.533	2.7	259.2	46418	
2300		"			3584	86	1000		850	39	51.7	0.616	0	12.493	2.8	268.8	46476	
2315		"			3584	86	1000		845	38	51.7	0.616	0	12.663	4.5	432.0	29312	
2330		"			3584	86	1000		840	38	51.7	0.616	0	12.626	3.1	297.6	42426	
2345		"			3584	84	1000		840	38	51.7	0.616	0	12.626	3.2	307.2	41100	
2400		"			3584	84	1000		840	38	51.7	0.616	0	12.626	3.4	326.4	38682	
27/5 81 20		S.I.		Shut in well at choke manifold, commence bleeding of pressure overboard through adjustable choke, for reversing out programme end of D.S.T. 2 A														
0050		"		Finish reversing out.														
				Shrinkage factor for above rate = 0.8350														
			*	Unusual liquid flow rates caused by maintaining a high level in separator for obtaining samples.														



**ORIFICE METER GAS FLOW MEASUREMENT
BASED ON
AGA GAS MEASUREMENT COMMITTEE REPORT NO. 3**

BASIC EQUATION

$Q = C' \sqrt{hwPf}$ = Flowrate at base conditions in Cu. Ft./Hr.

C' = Orifice Flow constant

hw = Differential pressure in inches of water

Pf = Static pressure in PSIA

$C' = F_b \times F_{pb} \times F_{tb} \times F_g \times F_{tf} \times F_r \times Y \times F_{pv}$

F_b = Basic Hourly orifice flow factor

F_{pb} = Pressure Base Factor

F_{tb} = Temperature Base Factor

F_g = Specific Gravity Factor

F_{tf} = Flowing Temperature Factor

F_r = Reynolds Number Factor

Y = Expansion Factor

F_{pv} = Super Compressibility Factor

STANDARD CONDITIONS

Base Temperature = 60.0 F.

Base Pressure = 14.73 PSI

Specific Gravity = 1.000

COMPANY SAGAWELL NO. 35/ - 4FIELD BLOCK 35/3

INTERVAL TESTED

3445-3447.5
3449.5-3453.5
3454.5-3459.5
3464.5-3471.5COUNTRY OFFSHORE NORWAYBAKER TECHNICIAN R. TiessenDATE: 25-05-81

BASE CONDITIONS: 14.73 POUNDS PER SQUARE INCH AT 60°F D:S.T. no: 2 A First flow period.

Gas Flow Rate Calculations

PAGE 1 OF 6ORIFICE FITTING TYPE: Daniels SeniorORIFICE FITTING SIZE: 7.625 FLANGE TAPS. PIPE TAPS.GAS FLOW RECORDER TYPE: Barton 202 a SER. NO. 202 a -136479PRESSURE RANGE: 0 -1500 P.S.I.DIFFERENTIAL RANGE: 0-200" W.G.DATE OF LAST CALIBRATION: 17/5.81GAS SPECIFIC GRAVITY: .620CALIBRATED BY: T. Torbjørnsen

TIME DATA		CHOKESIZE 64THS. INCH	METER RUN DATA				$\sqrt{P_1 X_{hw}}$	C' = $F_b \times F_{pb} \times F_{Tb} \times F_D \times F_{Tr} \times F_r \times Y \times F_{pv}$										FLOW RATE Q = $C' \times 2.4 \times \sqrt{P_1 \times h_w}$ MMSCF/DAY	REMARKS	
DATE & TIME HOURS	ELAPSED TIME HOURS		PRESS. PSIA	DIFF. INCHES WATER	TEMP. °F	PLATE SIZE INCHES		F_b	F_{pb}	F_{Tb}	F_D	F_{Tr}	F_r	Y	F_{pv}	C'				
25/5.81 0246		36																		
																				Divert flow through seperator
																				Commence collecting Seperator data.
		36	915	133	54	3.25	348.848	2182.6	1.0	1.0	1.2700	1.006	1.0	1.0	1.100	3067. 387	25.681		S.G. = .620	
		"	900	135	54	3.25	348.569	2182.6	1.0	1.0	1.2700	1.006	1.0	1.0	1.100	3067. 387	25.661			
		"	895	135	56	3.25	347.599	2182.6	1.0	1.0	1.2700	1.004	1.0	1.0	1.094	3044. 591	25.399			
		"	885	140	56	3.25	351.994	2182.6	1.0	1.0	1.2700	1.004	1.0	1.0	1.090	3033. 459	25.626			
		"	895	142	56	3.25	356.497	2182.6	1.0	1.0	1.2700	1.004	1.0	1.0	1.094	3044. 591	26.049		S.G. = .620	
		"	900	144	58	3.25	360.000	2182.6	1.0	1.0	1.2700	1.002	1.0	1.0	1.094	3038. 526	26.253			
		"	905	142	60	3.25	358.483	2182.6	1.0	1.0	1.2700	1.000	1.0	1.0	1.091	3024. 145	26.019			
		"	905	144	60	3.25	360.999	2182.6	1.0	1.0	1.2700	1.000	1.0	1.0	1.091	3024. 145	26.201		S.	
		"	905	144	60	3.25	360.999	2182.6	1.0	1.0	1.2700	1.000	1.0	1.0	1.091	3024. 145	26.201		S.G. = .620	
		"	905	138	60	3.25	353.348	2182.6	1.0	1.0	1.2700	1.000	1.0	1.0	1.091	3024. 145	25.649			
		"	915	138	60	3.25	355.345	2182.6	1.0	1.0	1.2700	1.000	1.0	1.0	1.091	3024. 145	25.791			
		"	900	141	60	3.25	356.230	2182.6	1.0	1.0	1.2700	1.000	1.0	1.0	1.091	3024. 145	25.855			
		"	915	139	62	3.25	356.630	2182.6	1.0	1.0	1.2700	0.9981	1.0	1.0	1.091	3018. 399	25.835		S.G. = .620	

Gas Flow Rate Calculation Report Continuation Form

TIME DATA		CHOKE SIZE 64THS. INCH	METER RUN DATA				$\sqrt{P_1 X h w}$	C' = F _b x F _{pb} x F _{Tb} x F _g x F _{Tt} x F _r x Y x F _{PV}									FLOW RATE Q = C' x 24 x $\sqrt{P_1 x h w}$ MMSCF/DAY	REMARKS	
DATE & TIME HOURS	ELAPSED TIME HOURS		PRESS. PSIA	DIFF. INCHES WATER	TEMP. °F	PLATE SIZE INCHES		F _b	F _{pb}	F _{Tb}	F _g	F _{Tt}	F _r	Y	F _{PV}	C'			
25/5.	81																		
0645		36	915	137	61	3.25	354.055	2182.6	1.0	1.0	1.2700	0.9990	1.0	1.0	1.091	3021. 123	25.671		
0700		"	915	137	62	3.25	354.055	2182.6	1.0	1.0	1.2700	0.9981	1.0	1.0	1.091	3018. 399	25.648		
0715		"	915	136	64	3.25	352.761	2182.6	1.0	1.0	1.2700	0.9962	1.0	1.0	1.091	3012. 653	25.506		
0730		"	915	136	63	3.25	352.761	2182.6	1.0	1.0	1.2700	0.9971	1.0	1.0	1.091	3015. 375	25.552	S.G. = 620	
0745		"	915	137	64	3.25	354.055	2182.6	1.0	1.0	1.2700	0.9962	1.0	1.0	1.091	3012. 653	25.599		
0800		"	915	137	64	3.25	354.055	2182.6	1.0	1.0	1.2700	0.9962	1.0	1.0	1.091	3012. 653	25.599		
0815		"	915	137	65	3.25	354.055	2182.6	1.0	1.0	1.2700	0.9952	1.0	1.0	1.085	2993. 078	25.433		
0830		"	915	136	66	3.25	352.761	2182.6	1.0	1.0	1.2700	0.9943	1.0	1.0	1.085	2990. 371	25.317	S.G. = .620	
0845		"	915	136	66	3.25	352.761	2182.6	1.0	1.0	1.2700	0.9943	1.0	1.0	1.085	2990. 371	25.317		
0900		"	915	136	66	3.25	352.761	2182.6	1.0	1.0	1.2700	0.9943	1.0	1.0	1.085	2990. 371	25.317		
0915		"	925	135	66	3.25	353.317	2182.6	1.0	1.0	1.2700	0.9943	1.0	1.0	1.085	2990. 371	25.361		
0930		"	930	129	66	3.25	346.367	2182.6	1.0	1.0	1.2700	0.9943	1.0	1.0	1.085	2990. 371	24.857	S.G. = .620	
0945		"	945	128	67	3.25	347.793	2182.6	1.0	1.0	1.2700	0.9933	1.0	1.0	1.092	3006. 637	25.096		
1000		"	905	136	66	3.25	350.828	2182.6	1.0	1.0	1.2700	0.0043	1.0	1.0	1.085	2990. 371	25.179		
1015		"	900	136	67	3.25	349.857	2182.6	1.0	1.0	1.2700	0.9933	1.0	1.0	1.085	2987. 363	25.084		
1030		"	895	136	67	3.25	348.884	2182.6	1.0	1.0	1.2700	0.9933	1.0	1.0	1.085	2987. 363	25.014	S.G. = 620	
1045		"	896	136	67	3.25	349.079	2182.6	1.0	1.0	1.2700	0.9933	1.0	1.0	1.085	2987. 363	25.029		
1100		"	865	140	67	3.25	347.994	2182.6	1.0	1.0	1.2700	0.9933	1.0	1.0	1.083	2981. 857	24.904		
1115		"	855	140	67	3.25	345.977	2182.6	1.0	1.0	1.2700	0.9933	1.0	1.0	1.083	2981. 857	24.760		
1130		"	865	139	66	3.25	346.749	2182.6	1.0	1.0	1.2700	0.9943	1.0	1.0	1.083	2984. 859	24.840	S.G. = 620	

Gas Flow Rate Calculation Report Continuation Form

TIME DATA		CHOKE SIZE 64THS. INCH	METER RUN DATA				$\sqrt{P_1 X h w}$	$C' = F_b \times F_{pb} \times F_{Tb} \times F_g \times F_{Ti} \times F_r \times Y \times F_{pv}$									FLOW RATE $Q = C' \times 24 \times \sqrt{P_1 \times h w}$ MMSCF/DAY	REMARKS
DATE & TIME HOURS	ELAPSED TIME HOURS		PRESS. PSIA	DIFF. INCHES WATER	TEMP. °F	PLATE SIZE INCHES		F_b	F_{pb}	F_{Tb}	F_g	F_{Ti}	F_r	Y	F_{pv}	C'		
25/5.81 1145		36	940	131	71	3.25	350.913	2182.6	1.0	1.0	1.2700	0.9896	1.0	1.0	1.083	2970.749	25.019	
1200		"	885	136	69	3.25	346.929	2182.6	1.0	1.0	1.2700	0.9915	1.0	1.0	1.083	2976.453	24.783	
1215		"	890	136	69	3.25	347.908	2182.6	1.0	1.0	1.2700	0.9915	1.0	1.0	1.083	2976.453	24.853	
1230		"	880	135	70	3.25	344.674	2182.6	1.0	1.0	1.2700	0.9905	1.0	1.0	1.083	2973.451	24.597	
1245		"	890	135	69	3.25	346.626	2182.6	1.0	1.0	1.2700	0.9915	1.0	1.0	1.083	2976.453	24.761	
1300		"	895	135	69	3.25	345.652	2182.6	1.0	1.0	1.2700	0.9915	1.0	1.0	1.083	2976.453	24.692	
1315		"	885	135	69	3.25	345.652	2182.6	1.0	1.0	1.2700	0.9915	1.0	1.0	1.083	2976.453	24.692	
1330		"	885	136	70	3.25	346.929	2182.6	1.0	1.0	1.2700	0.9905	1.0	1.0	1.080	2965.214	24.689	
1345		"	885	136	70	3.25	346.929	2182.6	1.0	1.0	1.2700	0.9905	1.0	1.0	1.080	2965.214	24.689	
1400		"	885	136	72	3.25	346.929	2182.6	1.0	1.0	1.2700	0.9887	1.0	1.0	1.080	2959.826	24.644	
1415		"	885	136	70	3.25	346.929	2182.6	1.0	1.0	1.2700	0.9905	1.0	1.0	1.080	2965.214	24.689	
1430		"	885	134	72	3.25	344.369	2182.6	1.0	1.0	1.2700	0.9887	1.0	1.0	1.080	2959.826	24.463	
1145		"	885	134	72	3.25	344.369	2182.6	1.0	1.0	1.2700	0.9887	1.0	1.0	1.080	2959.826	24.463	
1500		"	885	132	71	3.25	341.789	2182.6	1.0	1.0	1.2700	0.9896	1.0	1.0	1.080	2962.520	24.301	
1522		SI.					Shut in at separator, end of flow period, commence monitoring build up.											
26/5.81 1033			Switch flow through separator for 2nd. rate.															
1200			Commence collecting separator data.															
1200		24	940	30	38	3.25	167.929	2182.6	1.0	1.0	1.2700	1.022	1.0	1.0	1.106	3133.169	12.628	
1215		"	940	30	38	3.25	167.929	2182.6	1.0	1.0	1.2700	1.022	1.0	1.0	1.106	3133.169	12.628	

Gas Flow Rate Calculation Report Continuation Form

TIME DATA		CHOKE SIZE 64THS. INCH	METER RUN DATA				$\sqrt{P_1 X_{hw}}$	C' = $F_b \times F_{pb} \times F_{Tb} \times F_g \times F_{Ti} \times F_r \times Y \times F_{pv}$								FLOW RATE $Q = C' \times 24 \times \sqrt{P_f \times h_w}$ MMSCF/DAY	REMARKS	
DATE & TIME HOURS	ELAPSED TIME HOURS		PRESS. PSIA	DIFF. INCHES WATER	TEMP. °F	PLATE SIZE INCHES		F_b	F_{pb}	F_{Tb}	F_g	F_{Ti}	F_r	Y	F_{pv}			C'
26/5 1230	81	24	955	30	40	3.25	169. 263				1.2720	1.020	1.0	1.0	1.114	3154. 617	12.815	S.G.=0.618
1245	"	"	960	30	40	3.25	169. 706				1.2720	1.020	1.0	1.0	1.114	3154. 617	12.849	
1300	"	"	960	30	40	3.25	169. 706				1.2720	1.020	1.0	1.0	1.114	3154. 617	12.849	
1315	"	"	960	31	41	3.25	172. 511				1.2720	1.019	1.0	1.0	1.114	3151. 524	13.048	
1330	"	"	955	32	40	3.25	174. 814				1.2720	1.020	1.0	1.0	1.114	3154. 617	13.235	S.G.=0.618
1345	"	"	955	32	41	3.25	174. 814				1.2720	1.019	1.0	1.0	1.114	3151. 524	13.222	
1400	"	"	945	32	39	3.25	173. 897				1.2720	1.021	1.0	1.0	1.114	3151. 710	13.179	
1415	"	"	945	32	42	3.25	173. 897				1.2720	1.018	1.0	1.0	1.114	3148. 431	13.140	
1430	"	"	960	31	40	3.25	172. 511				1.2720	1.020	1.0	1.0	1.114	3154. 617	13.061	S.G.=0.618
1445	"	"	950	30	38	3.25	168. 819				1.2720	1.022	1.0	1.0	1.114	3160. 802	12.806	
1500	"	"	945	30	40	3.25	168. 375				1.2720	1.020	1.0	1.0	1.114	3154. 617	12.748	
1515	"	"	945	30	40	3.25	168. 375				1.2720	1.020	1.0	1.0	1.114	3154. 617	12.748	
1530	"	"	955	29	41	3.25	166. 418				1.2741	1.019	1.0	1.0	1.114	3156. 727	12.608	S.G.=0.616
1545	"	"	945	30	42	3.25	168. 375				1.2741	1.018	1.0	1.0	1.114	3153. 629	12.744	
1600	"	"	945	30	42	3.25	168. 375				1.2741	1.018	1.0	1.0	1.114	3153. 629	12.744	
1615	"	"	950	30	42	3.25	168. 819				1.2741	1.018	1.0	1.0	1.114	3153. 629	12.777	
1630	"	"	935	30	40	3.25	167. 481				1.2741	1.020	1.0	1.0	1.106	3137. 133	12.610	S.G.=0.616
1645	"	"	945	30	42	3.25	168. 375				1.2741	1.018	1.0	1.0	1.114	3153. 629	12.744	
1700	"	"	945	30	42	3.25	168. 375				1.2741	1.018	1.0	1.0	1.114	3153. 629	12.744	
1715	"	"	950	30	42	3.25	168. 819				1.2741	1.018	1.0	1.0	1.114	3153. 629	12.777	

Gas Flow Rate Calculation Report Continuation Form

TIME DATA		CHOKE SIZE 64THS. INCH	METER RUN DATA				$\sqrt{P_1 X h w}$	C' = F _b X F _{pb} X F _{Tb} X F _g X F _{Tf} X F _r X Y X F _{PV}								FLOW RATE Q = C' x 24 x $\sqrt{P_1 x h w}$ MMSCF/DAY	REMARKS
DATE & TIME HOURS	ELAPSED TIME HOURS		PRESS. PSIA	DIFF. INCHES WATER	TEMP. °F	PLATE SIZE INCHES		F _b	F _{pb}	F _{Tb}	F _g	F _{Tf}	F _r	Y	F _{PV}		
26/5	81					168.									3130.		
1730		24	915	31	42	419	2182.6	1.0	1.0	1.274	1.018	1.0	1.0	1.106	982	12.656	S.G.=0.616
1745		"	925	31	41	337	2182.6	1.0	1.0	1.274	1.019	1.0	1.0	1.106	3134. 057	12.737	
1800		"	935	31	41	250	2182.6	1.0	1.0	1.274	1.019	1.0	1.0	1.106	3134. 057	12.806	
1815		"	920	30	41	132	2182.6	1.0	1.0	1.274	1.019	1.0	1.0	1.106	3134. 057	12.496	
1830		"	890	32	40	760	2182.6	1.0	1.0	1.274	1.020	1.0	1.0	1.106	3137. 133	12.706	S.G.=0.616
1845		"	890	31	40	102	2182.6	1.0	1.0	1.274	1.020	1.0	1.0	1.106	3137. 133	12.506	
1900		"	890	32	40	760	2182.6	1.0	1.0	1.274	1.020	1.0	1.0	1.106	3137. 133	12.706	
1915		"	900	30	39	317	2182.6	1.0	1.0	1.274	1.021	1.0	1.0	1.106	3140. 209	12.384	
1930		"	887	32	39	476	2182.6	1.0	1.0	1.274	1.021	1.0	1.0	1.102	3128. 852	12.651	
1945		"	890	30	40	401	2182.6	1.0	1.0	1.274	1.020	1.0	1.0	1.106	3137. 133	12.303	
2000		"	885	32	40	285	2182.6	1.0	1.0	1.274	1.020	1.0	1.0	1.102	3125. 187	12.625	
2015		"	885	32	38	285	2182.6	1.0	1.0	1.274	1.022	1.0	1.0	1.102	3131. 916	12.649	
2030		"	885	34	38	465	2182.6	1.0	1.0	1.274	1.022	1.0	1.0	1.102	3131. 916	13.039	
2045		"	875	34	38	482	2182.6	1.0	1.0	1.274	1.022	1.0	1.0	1.102	3131. 916	12.965	
2100		"	880	34	39	974	2182.6	1.0	1.0	1.274	1.021	1.0	1.0	1.102	3128. 852	12.989	
2115		"	870	34	40	171 988	2182.6	1.0	1.0	1.274	1.020	1.0	1.0	1.102	3126. 787	12.902	
2130		"	875	33	40	169 926	2182.6	1.0	1.0	1.274	1.020	1.0	1.0	1.102	3125. 787	12.748	
2145		"	880	33	40	170 411	2182.6	1.0	1.0	1.274	1.020	1.0	1.0	1.102	3125. 787	12.784	
2200		"	880	35	40	175 499	2182.6	1.0	1.0	1.274	1.020	1.0	1.0	1.102	3125. 787	13.166	
2215		"	870	32	40	166 853	2182.6	1.0	1.0	1.274	1.020	1.0	1.0	1.102	3125. 787	12.517	



SUBSURFACE PRESSURE CALCULATIONS

$$P = KY + a + p + C$$

K = ELEMENT MODULUS

a = ZERO OR REFERENCE PRESSURE CORRECTION

p = EQUIVALENT PRESSURE OF LEVEL DIFFERENCE
BETWEEN DWT AND BELLOWS DURING CALIBRATION

C = NON LINEARITY CORRECTION

D_O = BASE LINE READING

D_R = REFERENCE LINE READING FOR REFERENCE PRESSURE P

D = READING FOR PRESSURE P

Y = DEFLECTION FOR PRESSURE P $\left\{ \begin{array}{l} D - D_O \text{ IF REFERENCE LINE NOT USED} \\ D - D_R \text{ IF REFERENCE LINE USED} \end{array} \right.$

K, a, p AND C ARE OBTAINED FROM CALIBRATION



BAKER PRODUCTION SERVICES NORWAY A.S.

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Saga petroleum A/S
P.O. Box 5021, Dusevik

4001 Stavanger

May 29. 1981

Dear Sir's

Attached you will find copies of bottom hole charts for DST no. 1 and DST no. 2A

Charts for DST no. 1 element no. 35020, 36671 sometime on way in to hole Sperry Suns recorder hanger broke and recorders drop approx 4 metres. I think by looking at the chart that this happened while setting packer or when string was being landed. At this point both charts skipped the total length of the chart therefore being unable to read them with any accurate results.

Charts for DST no. 2A.
Element no. 32347, 36670, 9080.

All three of these charts are unreadable. It appears that sometime within approx. 10 hrs from the time gauges were run in to well that something happen to cause two knuckle joint to shear and recorders to drop approx. 2 metres. Chart no. 1 does show some indication on it, but these are impossible to get accurate results from.

If you have any further queries, please do not hesitate to contact us.

Regards

Baker Production Services Norway A/S
4056 Tananger
NORWAY

5 Charts attached *TO MASTER COPY OF REPORT*

EST STRING: APR-N

Gianini Wagner.

FLUID WEIGHT

TEST NO: DST # II

Well-35/3-4

3445 TO 3472

No.	I. D.	O. D.	Description	By FORD DOLPHIN	Length M.	Depth M.
1.			DRILL PIPE			
2.	2.81	6.25	x-over 4 $\frac{1}{2}$ IF Box X 3 $\frac{1}{2}$ IF Pin		.22	
3.	2.00	4.38	4 $\frac{3}{8}$ Slip Joint (Open)		6.08	
4.	2.00	4.38	4 $\frac{3}{8}$ Slip Joint (Open)		6.08	
5.	2.00	4.38	4 $\frac{3}{8}$ Slip Joint (Half Open)		5.32	
6.	2.81	6.25	x-over 3 $\frac{1}{2}$ IF Box X 4 $\frac{1}{2}$ IF Pin		.22	
7.	2.50	6.50	3" STAND DRILL COLLARS		85.44	
8.	3.00	6.12	9 $\frac{5}{8}$ RTTs CIRC VALVE		.97	
9.	2.50	6.50	1 STAND DRILL COLLARS		28.37	
10.	2.81	6.25	x-over 4 $\frac{1}{2}$ IF Box X 3 $\frac{1}{2}$ IF Pin		.23	
11.	2.00	4.38	4 $\frac{3}{8}$ Slip Joint (Closed)		4.56	
12.	2.00	4.38	4 $\frac{3}{8}$ Slip Joint (Closed)		4.56	
13.	2.25	5.03	5" APR-m SAMPLER		8.44	
14.	2.81	6.25	x-over 3 $\frac{1}{2}$ IF Box X 4 $\frac{1}{2}$ IF Pin		.22	
15.	2.50	6.50	1 SINGLE DRILL COLLARS		9.50	
16.	2.81	6.25	x-over 4 $\frac{1}{2}$ IF Box X 3 $\frac{1}{2}$ IF Pin		.23	
17.	2.00	4.61	4 $\frac{3}{8}$ APR-N TESTER VALVE		4.17	
18.	2.25	5.38	5 $\frac{3}{8}$ RPT BUNDLE CARRIER		2.41	
19.	2.32	4.63	4 $\frac{5}{8}$ " BIG JOHN TARS		1.52	
20.	2.81	6.25	x-over 3 $\frac{1}{2}$ IF Box X 4 $\frac{1}{2}$ IF Pin		.22	
21.	3.00	6.12	9 $\frac{5}{8}$ RTTs CIRC VALVE		.97	
22.	3.12	6.12	9 $\frac{5}{8}$ RTTs SAFETY JOINT		1.10	
23.	3.75	8.25	9 $\frac{5}{8}$ RTTs PACKER ABOVE		1.77	3410.4
24.	3.75	8.25	" " " BELOW		.65	3411.12
25.	2.25	4.50	x-over 4 $\frac{1}{2}$ I.D. P. Pin X 2 $\frac{3}{4}$ I.D. Box		1.24	3412.3
26.	2.38	2.88	1 JOINT 2 $\frac{7}{8}$ I.D. Perforated Tubing		3.06	3415.4

