

Denne rapport  
tilhører



99.585274-12

L&U DOK.SENTER

L.NR. 12480060036

KODE Well 34/10-9 nr 42

Returneres etter bruk

# Formation testing service report

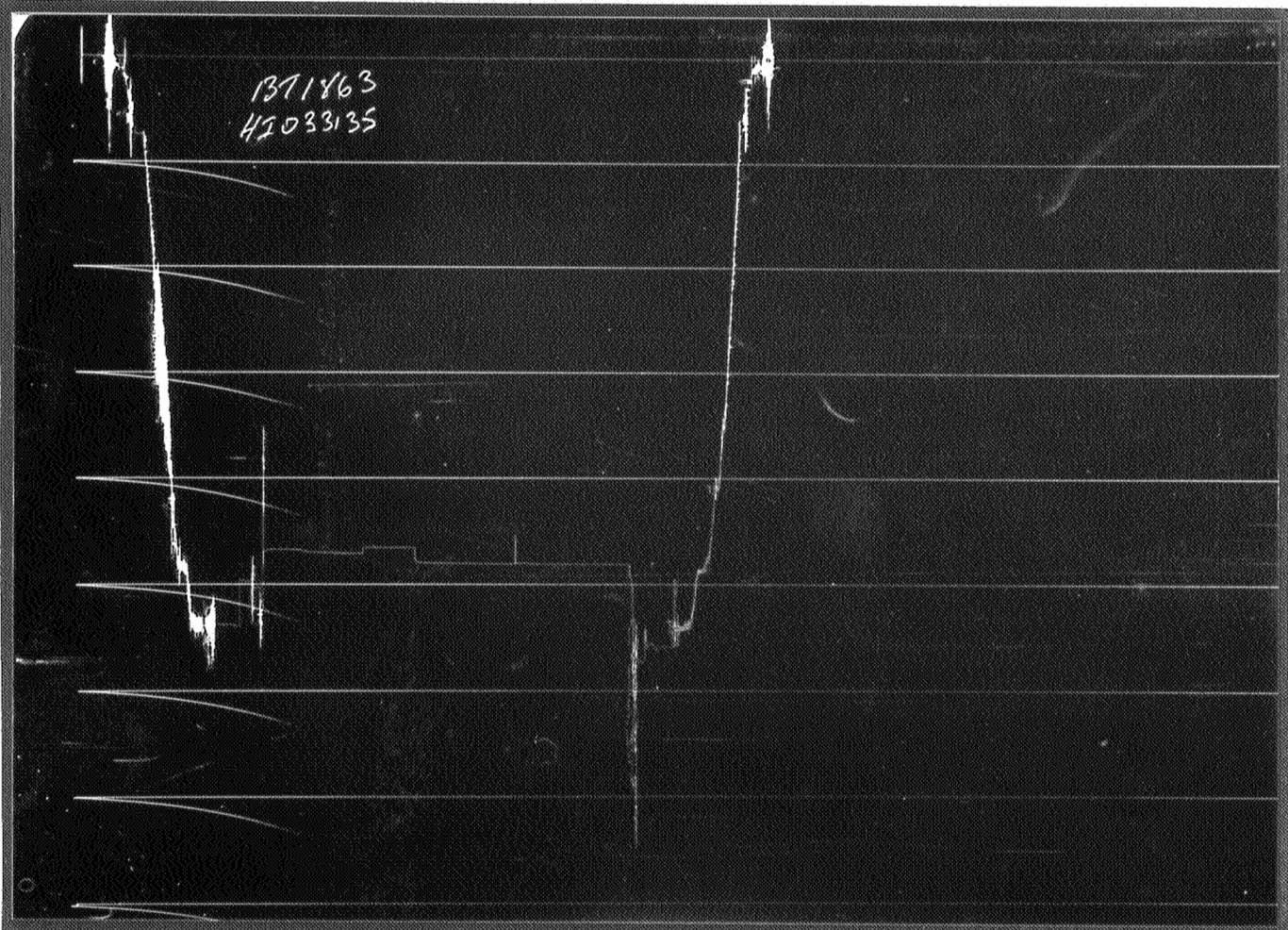


**HALLIBURTON**  
MANUFACTURING & SERVICES LTD.

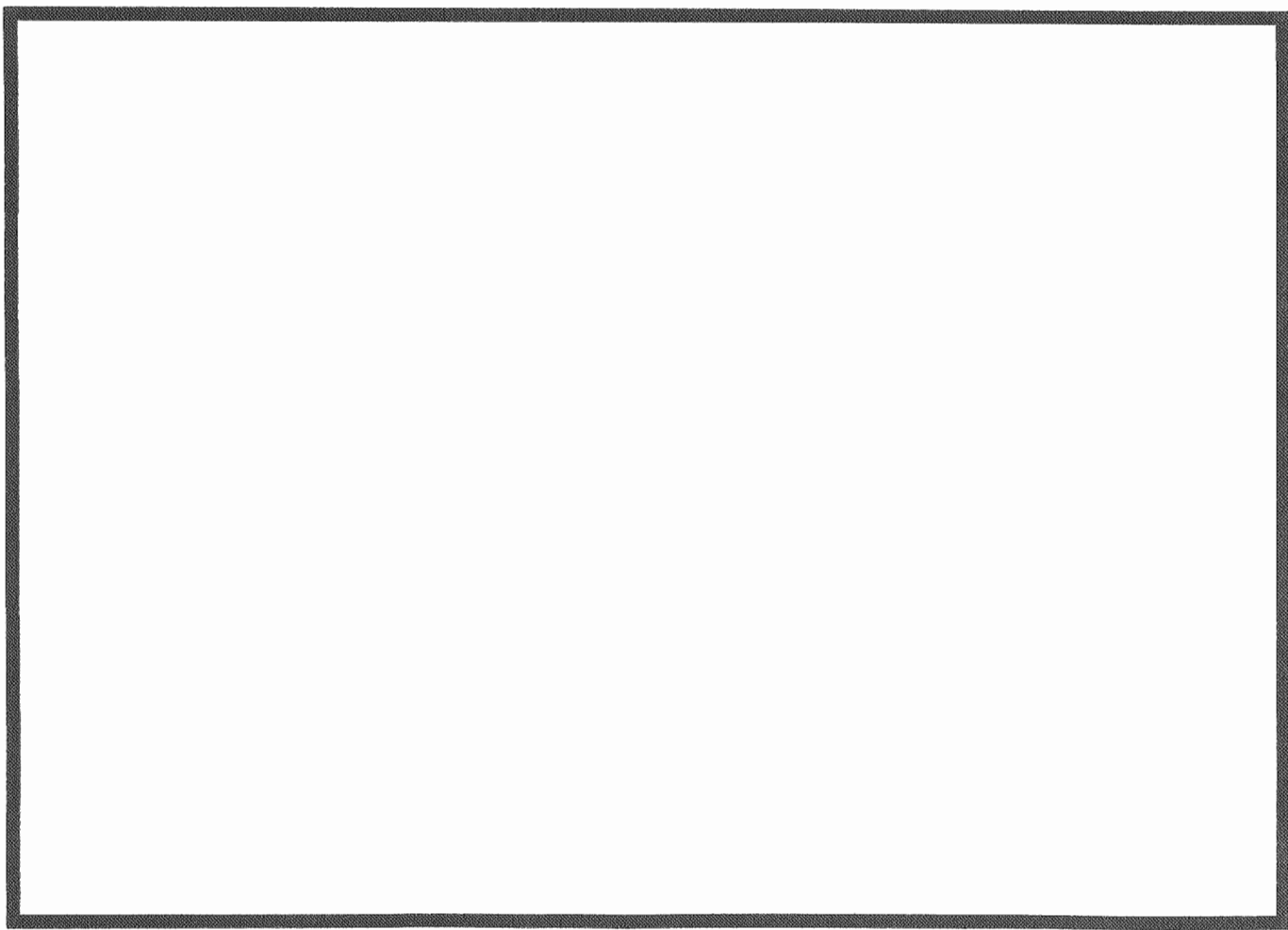
REGISTERED IN ENGLAND

1371863  
45033135

Pressure



RPG time BT time



Each horizontal line = 1000 psi

Legal Location  
Sec. - Twp. - Rng.

Well No.

Field Area

Tested Interval

County

Norway

State Norway

FLUID SAMPLE DATA			Date 20th June 1980	Ticket Number 033135
Sampler Pressure _____ P.S.I.G. at Surface			Kind of Job DST # II-A	Halliburton District Norway
Recovery: Cu. Ft. Gas _____			Tester Woodson & Mitchell Witness	
cc. Oil _____			Drilling Contractor	
cc. Water _____			EQUIPMENT & HOLE DATA	
cc. Mud _____			Formation Tested Cook Sand & 2084 to 2090	
Tot. Liquid cc. _____			Elevation 81 ft. Rotary Table Ft.	
Gravity _____ ° API @ _____ °F.	Net Productive Interval _____ Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.	All Depths Measured From _____			
RESISTIVITY _____	Total Depth 6843.65 Ft.			
CHLORIDE CONTENT _____	Main Hole/Casing Size 7"			
Recovery Water _____ @ _____ °F. _____ ppm	Drill Collar Length 632.26 ft. I.D.			
Recovery Mud _____ @ _____ °F. _____ ppm	Tubing Length 5487 ft. I.D.			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm	Packer Depth(s) 6709.64 ft. Ft.			
Mud Pit Sample _____ @ _____ °F. _____ ppm	Depth Tester Valve 6682.24 ft. Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				
Mud Weight 15 vis cp				

TYPE	AMOUNT	Depth Back Ft.	Surface Choke	Bottom Choke
Cushion				
Recovered	Feet of			
Recovered	Feet of			
Recovered	Feet of			
Recovered	Feet of			
Recovered	Feet of			
Remarks	Flow reported at 0641 (22/6/80) - 0905 (22/6/80) not apparent on chart.			

TEMPERATURE	Gauge No. 1863		Gauge No.		Gauge No.		TIME	
	Depth	6808.15 Ft.	Depth:	Ft.	Depth:	Ft.	Hour Clock	Hour Clock
Est. 190 °F.	14226 - 120 Hour Clock		Blanked Off		Blanked Off		Tool A.M.	
Actual °F.	Blanked Off		Blanked Off		Blanked Off		Opened P.M.	
	Pressures		Pressures		Pressures		Opened A.M.	
	Field	Office	Field	Office	Field	Office	Bypass P.M.	
Initial Hydrostatic		5376					Reported	Computed
							Minutes	Minutes
Flow Initial		3504						
Flow Final		4654					757	753
Closed in		4805					494	496
Flow Initial		4531						
Flow Final		4800					60	62
Closed in		4805					501	501
Flow Initial								
Flow Final								
Closed in								
Initial Hydrostatic		5408						

FORMATION TEST DATA

Casing perms. \_\_\_\_\_ Bottom choke \_\_\_\_\_ Surf. temp 50 °F Ticket No. 033135  
 Gas gravity \_\_\_\_\_ Oil gravity \_\_\_\_\_ GOR \_\_\_\_\_  
 Spec. gravity \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm Res. \_\_\_\_\_ @ \_\_\_\_\_ °F

## INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
20 JUNE 80						
4.20	p.m.					START TOOLS IN HOLE
6.15	p.m.					ALL TOOLS IN HOLE
6.30	p.m.					TEST B.H.A. AND 1 STAND OF
						TUBING TO 2500 PSI
6.40	p.m.	TO 11.50	p.m.			RUNNING TUBING
11.52	p.m.					RIG UP TEST HEAD
21 JUNE 80						
12.40	a.m.					SET PACKER
3.35	a.m.					TEST SURFACE EQUIPMENT
3.36	a.m.					PRESSURE UP TO OPEN APR TO 1500 PSI
3.58	a.m.					RELEASE PRESSURE
4.00	a.m.					PRESSURE UP TO 1800 PSI
4.03	a.m.					PRESSURE ONE UP TO 2000 PSI
4.19	a.m.					RELEASE ANNULUS PRESSURE
4.36	a.m.					UNSET PACKER
4.43	a.m.					SET PACKER
4.53	a.m.					PRESSURE UP TO 1500 PSI AND 1675 PSI
						ON WELL HEAD
4.56	a.m.	24/64	1675			OPEN WELL UPON 24/64 CHOKE
5.25	a.m.	24/64	2274			MUD BACK TO SURFACE
6.00	a.m.	24/64	2274			WELL FLOWING
7.00	a.m.	24/64	2295			WELL FLOWING
8.00	a.m.	24/64	2315			WELL FLOWING
9.00	a.m.	24/64	2332			WELL FLOWING
10.00	a.m.	24/64	2342			WELL FLOWING

Casing perms. \_\_\_\_\_ Bottom choke \_\_\_\_\_ Surf. temp. 50 °F Ticket No. 033135  
 Gas gravity \_\_\_\_\_ Oil gravity \_\_\_\_\_ GOR \_\_\_\_\_  
 Spec. gravity \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm Res. \_\_\_\_\_ @ \_\_\_\_\_ °F

## INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
11.00	a.m.	24/64	2375			WELL FLOWING
12.00	a.m.	24/64	2378			WELL FLOWING
1.00	p.m.	24/64	2375			WELL FLOWING
1.18	p.m.	32/64	2105			CHANGE CHOKE SIZE
2.00	p.m.	32/64	2120			WELL FLOWING
3.00	p.m.	32/64	2130			WELL FLOWING
4.00	p.m.	32/64	2132			WELL FLOWING
5.00	p.m.	32/64	2131			WELL FLOWING
5.33	p.m.	32/64				CLOSED IN APR TOOL AND 1000 TO 1500 PSI ON TUBING
22 JUNE 80						
1.45	a.m.					OPEN APR
1.47	a.m.	8/64	2540			OPEN WELL UP
2.47	a.m.	8/64				CLOSED WELL IN AT CHOKE MANIFOLD
6.10	a.m.	8/64	2564			R.I.H. FOR BOTTOM SAMPLER
6.41	a.m.	8/64	2555			SAMPLER IN PLACE OPEN WELL UP
9.05	a.m.	8/64	2595			CLOSED IN CHOKE MANIFOLD
9.25	a.m.					COMING OUT OF HOLE WITH SAMPLER
10.00	a.m.					RELEASE PRESSURE ON MANIFOLD
10.25	a.m.					WASH OUT LINES AND CHOKE MANIFOLD
11.08	a.m.					OPEN MASTER VALVE AND BULL HEAD IN 60 BBLs OF 1.8 MUD TO KILL WELL
11.15	a.m.					RIG DOWN CHOKE MANIFOLD
11.40	a.m.					SHEAR APR-A AT 2800 PSI AND CLOSED APR-N AND START CIRC.



TICKET: O33135

COMPANY: STATOIL

PERFS: 2084 to 2090

TEST NO: DST # 2 A

WELL NO: 34/10-9

TESTERS: D.B. WOODSON AND MIKE MITCHELL

<u>DESCRIPTION</u>	<u>DEPTH ft.</u>	<u>LENGTH ft.</u>	<u>I.D.</u>	<u>O.D.</u>
Surface Test Tree				
3½" Tubings hanger 2 joints				
Lubricator Valve				
2 pup joints				
7 stand Tubings and 1 Single				
EZ-Tree and X/O				
59 Stand Tubings and 3m pup joints				
X/O 3½ Tubing Box x 3½ IF pin				
Slip Joint (Open 2¼)	5965.08	18.17	2.25	5.00
Slip Joint (Closed 2¼)	5983.25	13.17	2.25	5.00
Drill Collars 5 stands	5996.42	465.9	2.25	4.75
X/O 3½ IF Box x 2⅞ 8rd EUE pin	6462.32	.79	2.438	4.75
7" RTTs Circulating Valve (Closed)	6463.11	2.74	2.44	4.87
X/O 2⅞ 8rd EUE Box x 3½ IF pin	6465.85	.69	2.25	5.00
Drill Collars 1 stand	6466.34	93.18	2.25	4.75
Slip Joint (Closed 2¼)	6559.72	13.17	2.25	5.00
Slip Joint (Closed 2¼)	6572.83	13.17	2.25	5.00
Drill Collars (1 stand)	6586.06	93.18	2.25	4.75
5" APR-A Reverse Valve	6679.24	3.00	2.25	5.03
5" APR-N Tester Valve	6682.24	12.78	2.25	5.03
4⅝" Hydraulic by pass	6695.02	6.32	2.25	4.63
4⅝" Big John Jars	6701.34	5.00	2.37	4.63
7" RTTs Safety Joint	6706.34	3.30	2.44	5.00
7" RTTs Packer Above	6709.64	1.69	2.40	5.75
7" RTTs Packer Below	6712.31	2.67	2.40	5.75
2⅞ EUE pup joint pin x 2⅞ EUE box	6718.31	6.00		
Perforated Tubing	6728.1	9.79		
Blind Sub 2⅞ EUE pin x pin	6728.95	.85		
Perforated Tubing 2⅞ EUE box x 2⅞ pin	6740.03	11.08		
DST Hanger	6740.82	.79		
X/O 2⅞ EUE Tubing	6771.16	30.34		

<u>DESCRIPTION</u>	<u>DEPTH ft.</u>	<u>LENGTH ft.</u>	<u>I.D.</u>	<u>O.D.</u>
DST Hanger	6771.95	.79		
1 Joint 2 $\frac{7}{8}$ Tubing	6802.26	30.41		
X/O 2 $\frac{7}{8}$ EUE Box x 2 $\frac{7}{8}$ Drill Pipe pin	6802.67	.31		2.875
BT Running Case	6808.15	5.48		3.875
X/O 2 $\frac{7}{8}$ Drill Pipe Box x 2 $\frac{7}{8}$ EUE pin	6808.47	.32		
X/O 2 $\frac{7}{8}$ EUE Box x 2 $\frac{3}{8}$ EUE pin	6809.3	.83		
1 Safety Joint 40,000lbs Otis 2 $\frac{3}{8}$ EUE pin	6811.66	2.36		
X/O 2 $\frac{3}{8}$ EUE Box x 2 $\frac{7}{8}$ EUE pin	6812.48	.83		
X/O 2 $\frac{7}{8}$ EUE Box x 3 $\frac{1}{2}$ 8rd Tubings pin	6813.27	.78		
1 Joint 3 $\frac{1}{2}$ Tubings	6843.63	30.38		



COMPANY: STATOIL  
 TICKET NO: H033135  
 GAUGE NO: 1863

1ST FLOW

74, 10 MINUTE INTERVALS. LAST INTERVAL= 13 MINS.  
 TOTAL 753 MINUTES

	TIME		PRESSURE		DELTA P
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	
P0	0	.000	1.212	3504	0
P1	10	.007	1.625	4688	1184
P2	20	.013	1.621	4677	11
P3	30	.020	1.619	4671	6
P4	40	.027	1.619	4671	0
P5	50	.033	1.619	4671	0
P6	60	.040	1.619	4671	0
P7	70	.046	1.619	4671	0
P8	80	.053	1.619	4671	0
P9	90	.060	1.619	4671	0
P10	100	.066	1.619	4671	0
P11	110	.073	1.619	4671	0
P12	120	.080	1.619	4671	0
P13	130	.086	1.620	4674	3
P14	140	.093	1.620	4674	0
P15	150	.099	1.620	4674	0
P16	160	.106	1.620	4674	0
P17	170	.113	1.620	4674	0
P18	180	.119	1.620	4674	0
P19	190	.126	1.623	4682	8
P20	200	.133	1.624	4685	3
P21	210	.139	1.624	4685	0
P22	220	.146	1.628	4697	12
P23	230	.152	1.628	4697	0
P24	240	.159	1.628	4697	0
P25	250	.166	1.628	4697	0
P26	260	.172	1.628	4697	0
P27	270	.179	1.628	4697	0
P28	280	.186	1.629	4700	3
P29	290	.192	1.629	4700	0
P30	300	.199	1.629	4700	0
P31	310	.205	1.629	4700	0
P32	320	.212	1.629	4700	0
P33	330	.219	1.629	4700	0
P34	340	.225	1.629	4700	0
P35	350	.232	1.631	4705	5
P36	360	.239	1.632	4708	3
P37	370	.245	1.632	4708	0
P38	330	.252	1.632	4708	0
P39	390	.258	1.632	4708	0
P40	400	.265	1.632	4708	0
P41	410	.272	1.632	4708	0
P42	420	.278	1.632	4708	0

COMPANY: STATOIL  
 TICKET NO: H033135  
 GAUGE NO: 1863

## 1ST FLOW CONTINUED

	TIME		PRESSURE		DELTA P
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	
P43	430	.285	1.632	4708	0
P44	440	.292	1.632	4708	0
P45	450	.298	1.632	4708	0
P46	460	.305	1.632	4708	0
P47	470	.312	1.632	4708	0
P48	480	.318	1.632	4708	0
P49	490	.325	1.632	4708	0
P50	500	.331	1.613	4654	54
P51	510	.338	1.613	4654	0
P52	520	.345	1.613	4654	0
P53	530	.351	1.613	4654	0
P54	540	.358	1.613	4654	0
P55	550	.365	1.613	4654	0
P56	560	.371	1.613	4654	0
P57	570	.378	1.613	4654	0
P58	580	.384	1.613	4654	0
P59	590	.391	1.613	4654	0
P60	600	.398	1.613	4654	0
P61	610	.404	1.613	4654	0
P62	620	.411	1.613	4654	0
P63	630	.418	1.613	4654	0
P64	640	.424	1.613	4654	0
P65	650	.431	1.613	4654	0
P66	660	.437	1.613	4654	0
P67	670	.444	1.613	4654	0
P68	680	.451	1.613	4654	0
P69	690	.457	1.613	4654	0
P70	700	.464	1.613	4654	0
P71	710	.471	1.613	4654	0
P72	720	.477	1.613	4654	0
P73	730	.484	1.613	4654	0
P74	740	.490	1.613	4654	0
P75	753	.499	1.613	4654	0

COMPANY: STATOIL  
 TICKET NO: H033135  
 GAUGE NO: 1863

1ST CLOSURE

49, 10 MINUTE INTERVALS. LAST INTERVAL= 6 MINS.  
 TOTAL 496 MINUTES

	TIME		PRESSURE		DELTA P	LOG T+0/0
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG		
P0	0	.000	1.613	4654	0	
P1	10	.007	1.659	4785	131	1.8591
P2	20	.013	1.660	4788	3	1.5953
P3	30	.020	1.661	4791	3	1.4141
P4	40	.027	1.662	4794	3	1.2896
P5	50	.033	1.662	4794	0	1.2074
P6	60	.040	1.662	4794	0	1.1295
P7	70	.046	1.663	4797	3	1.0736
P8	80	.053	1.663	4797	0	1.0177
P9	90	.060	1.663	4797	0	.9693
P10	100	.066	1.663	4797	0	.9325
P11	110	.073	1.663	4797	0	.8941
P12	120	.080	1.664	4800	3	.8596
P13	130	.086	1.664	4800	0	.8327
P14	140	.093	1.664	4800	0	.8038
P15	150	.099	1.664	4800	0	.7811
P16	160	.106	1.664	4800	0	.7564
P17	170	.113	1.664	4800	0	.7337
P18	180	.119	1.664	4800	0	.7154
P19	190	.126	1.664	4800	0	.6955
P20	200	.133	1.664	4800	0	.6769
P21	210	.139	1.664	4800	0	.6618
P22	220	.146	1.664	4800	0	.6452
P23	230	.152	1.664	4800	0	.6317
P24	240	.159	1.665	4802	2	.6168
P25	250	.166	1.665	4802	0	.6027
P26	260	.172	1.665	4802	0	.5912
P27	270	.179	1.665	4802	0	.5784
P28	280	.186	1.665	4802	0	.5662
P29	290	.192	1.665	4802	0	.5562
P30	300	.199	1.665	4802	0	.5450
P31	310	.205	1.665	4802	0	.5358
P32	320	.212	1.665	4802	0	.5255
P33	330	.219	1.665	4802	0	.5157
P34	340	.225	1.665	4802	0	.5076
P35	350	.232	1.665	4802	0	.4984
P36	360	.239	1.665	4802	0	.4897
P37	370	.245	1.665	4802	0	.4824
P38	380	.252	1.666	4805	3	.4742
P39	390	.258	1.666	4805	0	.4675
P40	400	.265	1.666	4805	0	.4598
P41	410	.272	1.666	4805	0	.4525
P42	420	.278	1.666	4805	0	.4464

COMPANY: STATOIL  
 TICKET NO: H033135  
 GAUGE NO: 1863

 1ST CLOSURE CONTINUED  
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	TIME		PRESSURE		DELTA P	LOG T+0/0
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG		
P43	430	.285	1.666	4805	0	.4395
P44	440	.292	1.666	4805	0	.4328
P45	450	.298	1.666	4805	0	.4272
P46	460	.305	1.666	4805	0	.4210
P47	470	.312	1.666	4805	0	.4149
P48	480	.318	1.666	4805	0	.4098
P49	490	.325	1.666	4805	0	.4040
P50	496	.329	1.666	4805	0	.4008

COMPANY: STATOIL  
 TICKET NO: H033135  
 GAUGE NO: 1863

2ND FLOW  
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11, 5 MINUTE INTERVALS. LAST INTERVAL= 7 MINS.  
 TOTAL 62 MINUTES

	TIME		PRESSURE		
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	DELTA P
P0	0	.000	1.570	4531	0
P1	5	.003	1.663	4797	266
P2	10	.007	1.664	4800	3
P3	15	.010	1.664	4800	0
P4	20	.013	1.664	4800	0
P5	25	.017	1.664	4800	0
P6	30	.020	1.664	4800	0
P7	35	.023	1.664	4800	0
P8	40	.027	1.664	4800	0
P9	45	.030	1.664	4800	0
P10	50	.033	1.664	4800	0
P11	55	.036	1.664	4800	0
P12	62	.041	1.664	4800	0

COMPANY: STATOIL  
 TICKET NO: H033135  
 GAUGE NO: 1863

2ND CLOSURE

49, 10 MINUTE INTERVALS. LAST INTERVAL= 11 MINS.  
 TOTAL 501 MINUTES

	TIME		PRESSURE		DELTA P	LOG T+0%
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG		
P0	0	.000	1.664	4800	0	
P1	10	.007	1.666	4805	5	1.8929
P2	20	.013	1.666	4805	0	1.6288
P3	30	.020	1.666	4805	0	1.4472
P4	40	.027	1.666	4805	0	1.3222
P5	50	.033	1.666	4805	0	1.2396
P6	60	.040	1.666	4805	0	1.1614
P7	70	.046	1.666	4805	0	1.1051
P8	80	.053	1.666	4805	0	1.0488
P9	90	.060	1.666	4805	0	1.0000
P10	100	.066	1.666	4805	0	.9629
P11	110	.073	1.666	4805	0	.9241
P12	120	.080	1.666	4805	0	.8893
P13	130	.086	1.666	4805	0	.8621
P14	140	.093	1.666	4805	0	.8329
P15	150	.099	1.666	4805	0	.8099
P16	160	.106	1.666	4805	0	.7849
P17	170	.113	1.666	4805	0	.7618
P18	180	.119	1.666	4805	0	.7433
P19	190	.126	1.666	4805	0	.7231
P20	200	.133	1.666	4805	0	.7042
P21	210	.139	1.666	4805	0	.6889
P22	220	.146	1.666	4805	0	.6720
P23	230	.152	1.666	4805	0	.6583
P24	240	.159	1.666	4805	0	.6431
P25	250	.166	1.666	4805	0	.6287
P26	260	.172	1.666	4805	0	.6170
P27	270	.179	1.666	4805	0	.6039
P28	280	.186	1.666	4805	0	.5914
P29	290	.192	1.666	4805	0	.5812
P30	300	.199	1.666	4805	0	.5698
P31	310	.205	1.666	4805	0	.5604
P32	320	.212	1.666	4805	0	.5499
P33	330	.219	1.666	4805	0	.5398
P34	340	.225	1.666	4805	0	.5315
P35	350	.232	1.666	4805	0	.5221
P36	360	.239	1.666	4805	0	.5131
P37	370	.245	1.666	4805	0	.5057
P38	380	.252	1.666	4805	0	.4973
P39	390	.258	1.666	4805	0	.4904
P40	400	.265	1.666	4805	0	.4826
P41	410	.272	1.666	4805	0	.4750
P42	420	.278	1.666	4805	0	.4687

COMPANY OIL  
 TICKET 33135  
 GAUGE NO 3

2ND CLOSE CONTINUED

MINUTE	INCHES DEFL.	INCHES DEFL.	PRESSURE PSIG	DELTA P	LOG T+(0/0)
P43 4.	.285	.286	4805	0	.4616
P44 4.	.292	.296	4805	0	.4547
P45 4.	.298	.306	4805	0	.4490
P46 4.	.305	.316	4805	0	.4426
P47 4.	.312	.326	4805	0	.4363
P48 4.	.318	.335	4805	0	.4311
P49 4.	.325	.345	4805	0	.4251
P50 50.	.332	.355	4805	0	.4194

COMPANY: STATOIL  
 TICKET NO: H033135  
 GAUGE NO: 1863

BULLHEADING  
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5, 5 MINUTE INTERVALS. LAST INTERVAL= 7 MINS.  
 TOTAL 32 MINUTES

	TIME		PRESSURE		DELTA P
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	
P0	0	.000	1.666	4805	0
P1	5	.003	1.709	4928	123
P2	10	.007	1.715	4945	17
P3	15	.010	1.737	5008	63
P4	20	.013	2.100	6051	1043
P5	25	.017	1.847	5324	727
P6	32	.021	2.600	7484	2160



## Nomenclature

<b>b</b>	= Approximate Radius of Investigation .....	Feet
<b>b<sub>1</sub></b>	= Approximate Radius of Investigation (Net Pay Zone h <sub>1</sub> ) .....	Feet
<b>D.R.</b>	= Damage Ratio .....	—
<b>EI</b>	= Elevation .....	Feet
<b>GD</b>	= B.T. Gauge Depth (From Surface Reference) .....	Feet
<b>h</b>	= Interval Tested .....	Feet
<b>h<sub>1</sub></b>	= Net Pay Thickness .....	Feet
<b>K</b>	= Permeability .....	md
<b>K<sub>1</sub></b>	= Permeability (From Net Pay Zone h <sub>1</sub> ) .....	md
<b>m</b>	= Slope Extrapolated Pressure Plot (Psi <sup>2</sup> /cycle Gas) .....	psi/cycle
<b>OF<sub>1</sub></b>	= Maximum Indicated Flow Rate .....	MCF/D
<b>OF<sub>2</sub></b>	= Minimum Indicated Flow Rate .....	MCF/D
<b>OF<sub>3</sub></b>	= Theoretical Open Flow Potential with /Damage Removed Max. ....	MCF/D
<b>OF<sub>4</sub></b>	= Theoretical Open Flow Potential with/Damage Removed Min. ....	MCF/D
<b>P<sub>s</sub></b>	= Extrapolated Static Pressure .....	Psig.
<b>P<sub>f</sub></b>	= Final Flow Pressure .....	Psig.
<b>P<sub>ot</sub></b>	= Potentiometric Surface (Fresh Water*) .....	Feet
<b>Q</b>	= Average Adjusted Production Rate During Test .....	bbls/day
<b>Q<sub>1</sub></b>	= Theoretical Production w/Damage Removed .....	bbls/day
<b>Q<sub>g</sub></b>	= Measured Gas Production Rate .....	MCF/D
<b>R</b>	= Corrected Recovery .....	bbls
<b>r<sub>w</sub></b>	= Radius of Well Bore .....	Feet
<b>t</b>	= Flow Time .....	Minutes
<b>t<sub>o</sub></b>	= Total Flow Time .....	Minutes
<b>T</b>	= Temperature Rankine .....	°R
<b>Z</b>	= Compressibility Factor .....	—
<b>μ</b>	= Viscosity Gas or Liquid .....	CP
<b>Log</b>	= Common Log	

\*Potentiometric Surface Reference to Rotary Table When Elevation Not Given,  
Fresh Water Corrected to 100° F.