



REPORT No. N83124

JOB No. _____

INVOICE/SIR. _____

DATE _____

D-22

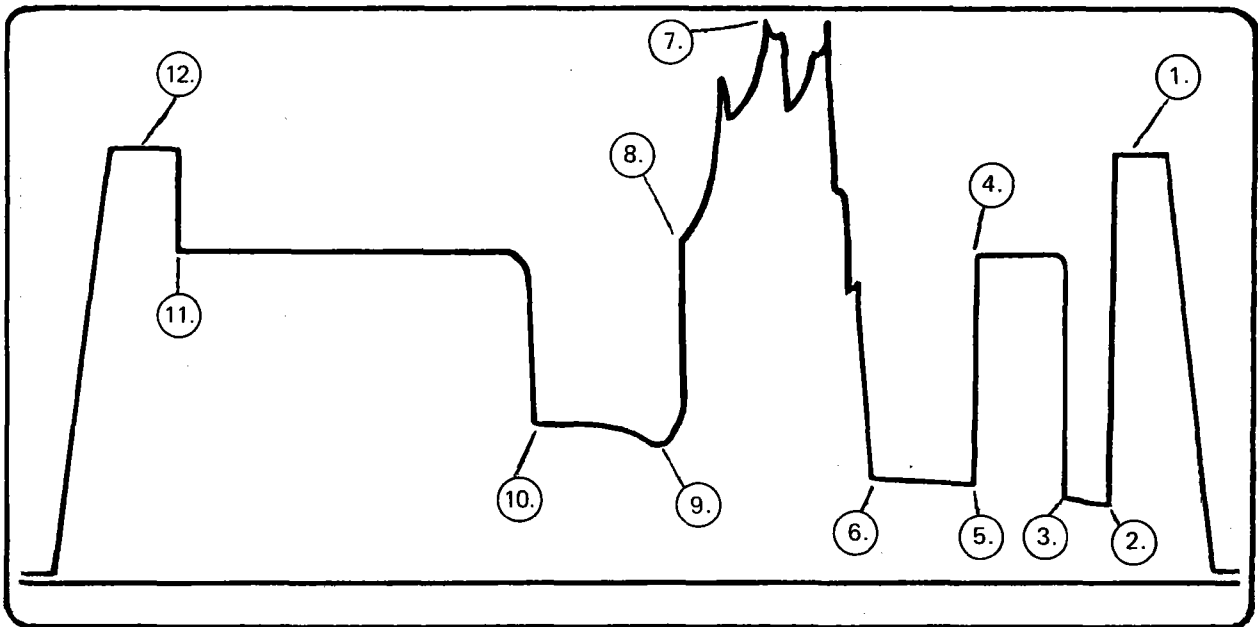
7/8-3
- CONOCO SERVICE RIG. -
- CONOCO SERVICE -
- LUBRICATION -
D-22

CONOCO

D.S.T. TECHNICAL REPORT

TEST No. 2 COUNTRY _____

WELL 7/8-3 FIELD _____ RIG _____



- | | |
|------------------------------------|--------------------------------|
| 1. INITIAL HYDROSTATIC | 7. MAX. INJECTION PRESSURE |
| 2. INITIAL FLOW (1) | 8. INJECTION-END/FINAL FLOW(1) |
| 3. INITIAL FLOW(2) | 9. FLOW POINT |
| 4. INITIAL SHUT-IN | 10. FINAL FLOW (2) |
| 5. SECOND FLOW (1) | 11. FINAL SHUT-IN |
| 6. SECOND FLOW (2)/INJECTION-START | 12. FINAL HYDROSTATIC |



REPORT DISTRIBUTION

CONOCO

c/o Dowell Schlumberger,
Dusevik Base,
4000 Stavanger,
NORWAY.

TEST No. 2 WELL 7/8-3 FIELD _____

COUNTRY NORWAY DATE _____ RIG _____

Dowell Schlumberger has been requested to furnish the following companies with Technical Reports.
This distribution of Technical Reports will be used for:

- All tests on this well,
- This one test only,

unless otherwise notified.

TECHNICAL REPORT (S)
 c/o Dowell Schlumberger
 Dusevik Base,
 4000, Stavanger, NORWAY

TECHNICAL REPORT (S)

Prepared by the
Reservoir Evaluation Department
of Dowell Schlumberger



PRESSURE DATA FOR RECORDER: J755

DESCRIPTION	LABEL POINT	PRESSURE (PSI)	TIME GIVEN	TIME COMPUTED
INITIAL HYDROSTATIC	1	9035.3	-	-
INITIAL FLOW (1)	2	5470.2	-	-
INITIAL FLOW (2)	3	5470.2	5	6
INITIAL SHUT-IN	4	8488.7	40	41
FINAL FLOW (1)	5	5451.0	-	-
FINAL FLOW (2)	6	4421.1	557	559
FINAL SHUT-IN	7	8466.7	618	615
FINAL HYDROSTATIC	8	8958.4	-	-



PRESSURE DATA FOR RECORDER: J755

LABEL POINT	ΔT	PRESSURE (PSI)	$\frac{T + \Delta T}{\Delta T}$	LOG	$P_w - P_f$ (PSI)	COMMENTS
1	-	9035.3	-	-	-	INITIAL HYDROSTATIC
2	0	5470.2				INITIAL FLOW (1)
	2	5470.2				
	4	5470.2				
3	6	5470.2				INITIAL FLOW (2)
3	0	5470.2				START OF SHUT-IN
	5	8260.8	2.200	.342	2790.5	(T=6)
	10	8373.4	1.600	.204	2903.1	
	15	8417.3	1.400	.146	2947.1	
	20	8444.8	1.300	.114	2974.5	
	25	8461.3	1.240	.0934	2991.0	
	30	8472.2	1.200	.0792	3002.0	
	35	8480.5	1.171	.0687	3010.2	
4	41	8488.7	1.146	.0593	3018.5	INITIAL SHUT-IN
5	0	5451.0				FINAL FLOW (1)
	2	5453.8				
	4	5434.5				
	6	5415.3				
	8	5401.6				
	10	5390.6				
	15	5365.9				
	20	5346.6				
	25	5332.9				
	30	5319.2				
	40	5294.5				
	50	5275.2				
	60	5258.8				
	70	5242.3				
	80	5223.0				
	90	5209.3				
	100	5192.8				
	125	5154.4				
	150	5110.4				
	175	5069.2				
	200	5028.0				
	225	4989.6				
	250	4945.6				
	275	4909.0				
	300	4868.7				
	325	4830.3				
	350	4786.3				
	375	4687.5				
	400	4649.0				
	425	4629.8				
	450	4594.1				
	475	4536.4				
	500	4495.2				
	525	4459.5				
6	559	4421.1				FINAL FLOW (2)



PRESSURE DATA FOR RECORDER: J755

LABEL POINT	ΔT	PRESSURE (PSI)	$\frac{T + \Delta T}{\Delta T}$	LOG	Pw - Pf (PSI)	COMMENTS
6	0	4421.1				START OF SHUT-IN
	1	5709.2	566.000	2.753	1288.1	(T=565)
	2	7351.6	283.500	2.453	2930.5	
	3	7760.9	189.333	2.277	3339.8	
	4	7879.0	142.250	2.153	3457.9	
	5	7931.2	114.000	2.057	3510.1	
	6	7966.9	95.167	1.978	3545.8	
	7	7997.1	81.714	1.912	3576.0	
	8	8021.8	71.625	1.855	3600.8	
	9	8041.0	63.778	1.805	3620.0	
	10	8060.3	57.500	1.760	3639.2	
	12	8087.7	48.083	1.682	3666.7	
	14	8109.7	41.357	1.617	3688.6	
	16	8128.9	36.313	1.560	3707.9	
	18	8145.4	32.389	1.510	3724.3	
	20	8156.4	29.250	1.466	3735.3	
	22	8170.1	26.682	1.426	3749.1	
	24	8181.1	24.542	1.390	3760.1	
	26	8189.3	22.731	1.357	3768.3	
	28	8197.6	21.179	1.326	3776.5	
	30	8208.6	19.833	1.297	3787.5	
	40	8241.5	15.125	1.180	3820.5	
	50	8266.2	12.300	1.090	3845.2	
	60	8258.8	10.417	1.018	3864.4	
	70	8302.0	9.071	.958	3380.9	
	80	8315.7	8.063	.906	3894.6	
	90	8326.7	7.278	.862	3905.6	
	120	8359.6	5.708	.757	3938.6	
	150	8378.9	4.767	.678	3957.8	
	180	8395.3	4.139	.617	3974.3	
	210	8406.3	3.690	.567	3985.3	
	240	8414.6	3.354	.526	3993.5	
	270	8425.5	3.093	.490	4004.5	
	300	8433.8	2.883	.460	4012.7	
	400	8453.0	2.413	.382	4032.0	
	500	8464.0	2.130	.328	4042.9	
7	614	8466.7	1.920	.283	4045.7	FINAL SHUT-IN
8	-	8958.4				FINAL HYDROSTATIC



RECORDER No. : J756

CAPACITY : 14000 psi

DEPTH : 12241 ft

OPENING : Outside - lower

TEMPERATURES : 312 Deg F

CLOCK No. : 9-1005
48 hours

CLOCK TRAVEL: .020272 in/min

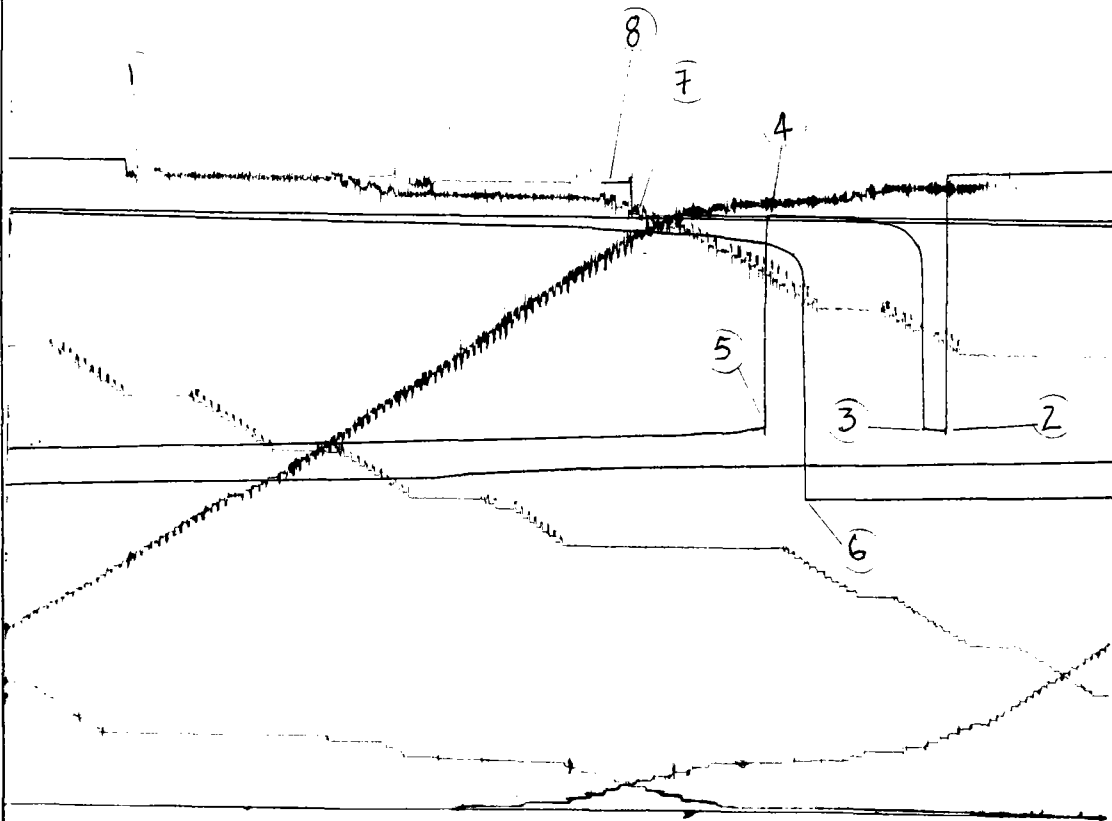
CALIBRATION DATA AT

M = 2737.4658

A = - 39.9464

PRESSURE (PSI) = DEFLECTION (INS) X M \pm A

PRESSURE DATA FROM THIS CHART IS PRESENTED ON THE NEXT PAGE.



CONVOCO - 7/8 - 1157 2 2 4112/83
J756 - 14,000 - (9-1005) 48 hrs



PRESSURE DATA FOR RECORDER: J756

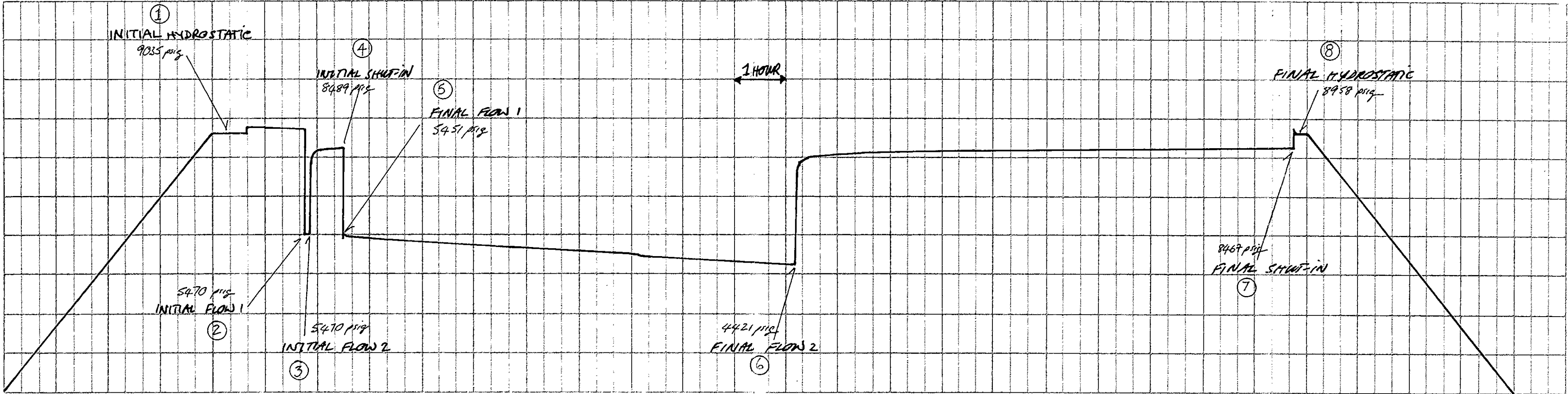
DESCRIPTION	LABEL POINT	PRESSURE (PSI)	TIME GIVEN	TIME COMPUTED
INITIAL HYDROSTATIC	1	8944.4	-	-
INITIAL FLOW (1)	2	5462.4	-	-
INITIAL FLOW (2)	3	5462.4	5	6
INITIAL SHUT-IN	4	8487.3	40	40
FINAL FLOW (1)	5	5481.5	-	-
FINAL FLOW (2)	6	4422.1	557	559
FINAL SHUT-IN	7	8470.8	618	614
FINAL HYDROSTATIC	8	8944.4	-	-



PRESSURE LOG*

Report No. N83124
Recorder No. J755
Capacity 14000 p.s.i.
Depth 12234 ft.

*a continuous tracing of the original chart





Diary of Events

Report No. N83124

COMPANY : Conoco WELL NO : 7/8-3 TEST NO : 2

TEST SEQUENCE AND FLOW DATA					
Description	Date	Time		Surface Pressure PSIG	Surface Choke
		Hrs	Mins		
Bullnose through rotary	4.12.83	22	50		
Press test tool string (5000 psi)	5.12.83	03	10		
Pkr through liner		09	55		
Set packer		12	14		
Pressure test tool string (7500 psi)		13	05		
Open PCT (initial flow)		13	28		
Open C/M		13	28		
Close PCT (initial shut-in) 4 bbls to stock tanks		13	33		
Close C/M		13	33		
Pressure up annulus to 200 psi		13	34		
Open PCT (Final Flow)		14	13		
Open C/M 15 psi at surface		14	14		2"
Stable flow 450 bbls/day 15 psi 48 Deg F		18	00		
Pressure up to 3500 psi (48 stks) to close PCT permanently (final shut-in)		23	30		
Bleed pressure off		23	33		
Close C/M		23	34		
Aim to pressure up annulus to 200 psi and get pressure increase on C/M 3750 psi SSARV cycles		23	35		
Open C/M to tanks - continue w/ rev out (50 stks @ 100 psi		23	39		
Rate up to 70 stks/min @ 350 psi		23	42		
MVD to surface (1575 stks)	6.12.83	00	12		
Finished reverse out (1800 stks)		00	22		
Shut in well (ann press. 275 psi)		00	30		
Bled pressure off Ann = 0 psi CM = 0 psi		00	35		
Observe for 15' - close choke (no flow)		00	50		
Ann. pressure shows 100 psi		08	00		
Open choke start rev. 20 stks/min @ 70 psi		08	15		
Stopped pumping & closed choke		08	45		
Pressure on Ann. increased to 40 psi	6.12.83	09	15		
Unset packer 310 K		09	41		
Close rams - choke open - no flow		09	48		
Close choke press. increase 40 psi					
Open master valve - start pumping					
long way 20 SPM @ 350 psi					
30 SPM @ 701 psi		09	53		
Stop pumping =		09	54		
Closed master, open swab load bar		10	08		
Bar dropped		10	21		
Attempt to set packer twice with no success (8 turns)		10	30		
Start pumping long way		10	40		
Finished pumping		13	46		
Pumped slug displace with 50 stks					
Started rigging down surface equipment		13	56		
Tools out of hole		22	00		
CUSHION TYPE : Sea water ; AMOUNT : 203 bbls ; LENGTH : FT; PRESSURE :1700 psi					
PACKER DEPTH : 12,189 FT. BOTTOM CHOKE SIZE :					

Average oil flowrate 415 BOPD



SYMBOLS USED

- ΔT — INCREMENT OF TIME (MINUTES)
- $\frac{T + \Delta T}{\Delta T}$ — DIMENSIONLESS TIME CONSTANT USED FOR THE HORNER PLOT
- ΔT IS THE INCREMENT OF SHUT-IN TIME (MINUTES)
- T IS TOTAL FLOW TIME PRECEDING SHUT-IN (MINUTES)
- LOG — LOGARITHM TO BASE 10 OF $\frac{T + \Delta T}{\Delta T}$
- $P_w - P_f$ — PRESSURE BUILD-UP ABOVE FINAL FLOWING PRESSURE PRECEDING THE BUILD UP WHICH IS USED FOR THE MCKINLEY PLOT.



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