

CALGARY COPY

9211-P33-4-1 RE

NORTHLAND
PRODUCTION TESTING LTD.

PRODUCTION SUMMARY

Customer: PARAMOUNT RESOURCES LTD.

Test: CLEAN UP

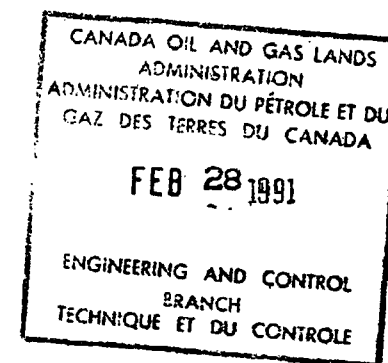
Duration: 91/01/24 1100 hrs. to 91/01/31 0835 hrs.

Well: PARAMOUNT et al CAMERON

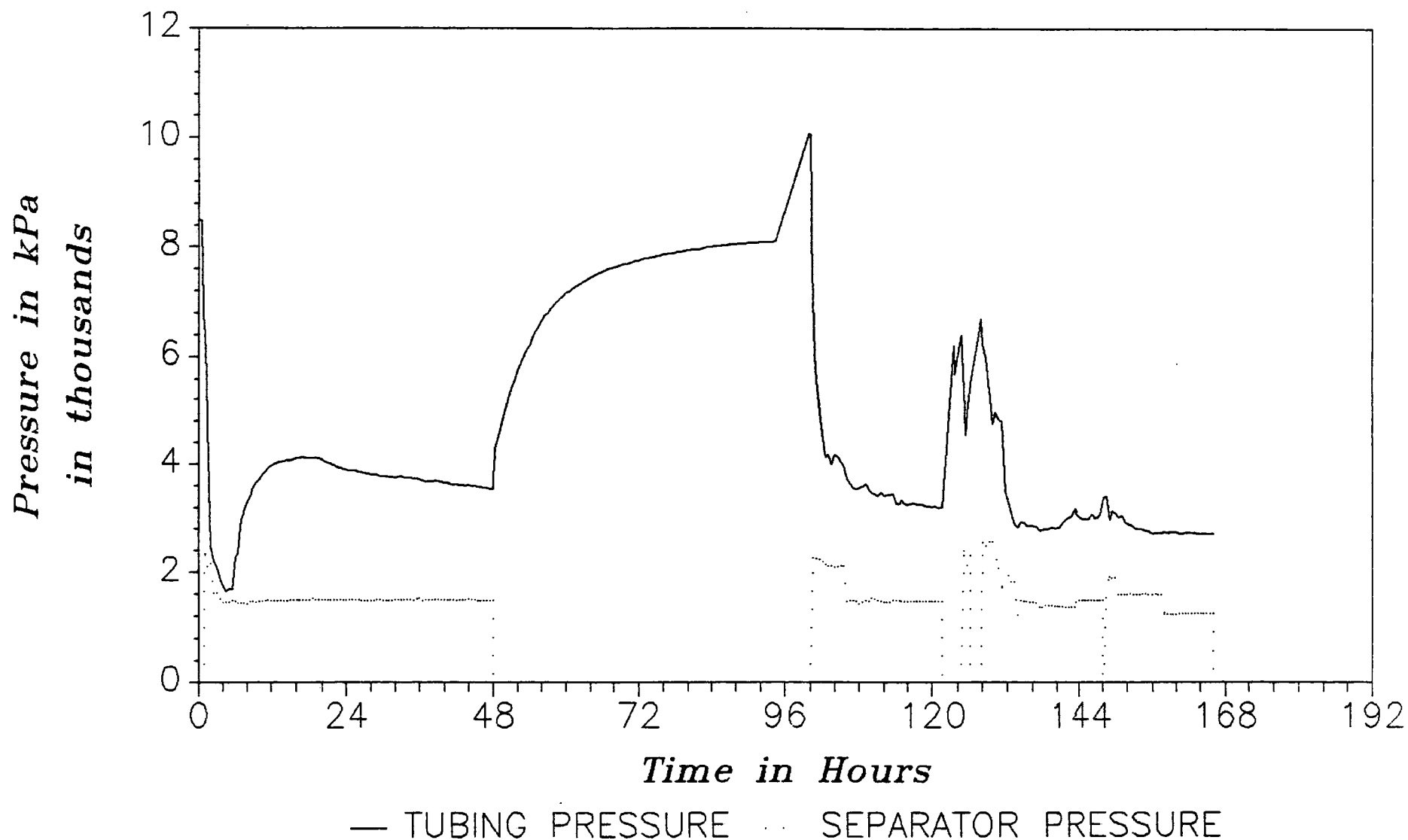
L.S.D. # B-08 50-10-117-30

Formation: SULPHUR POINT

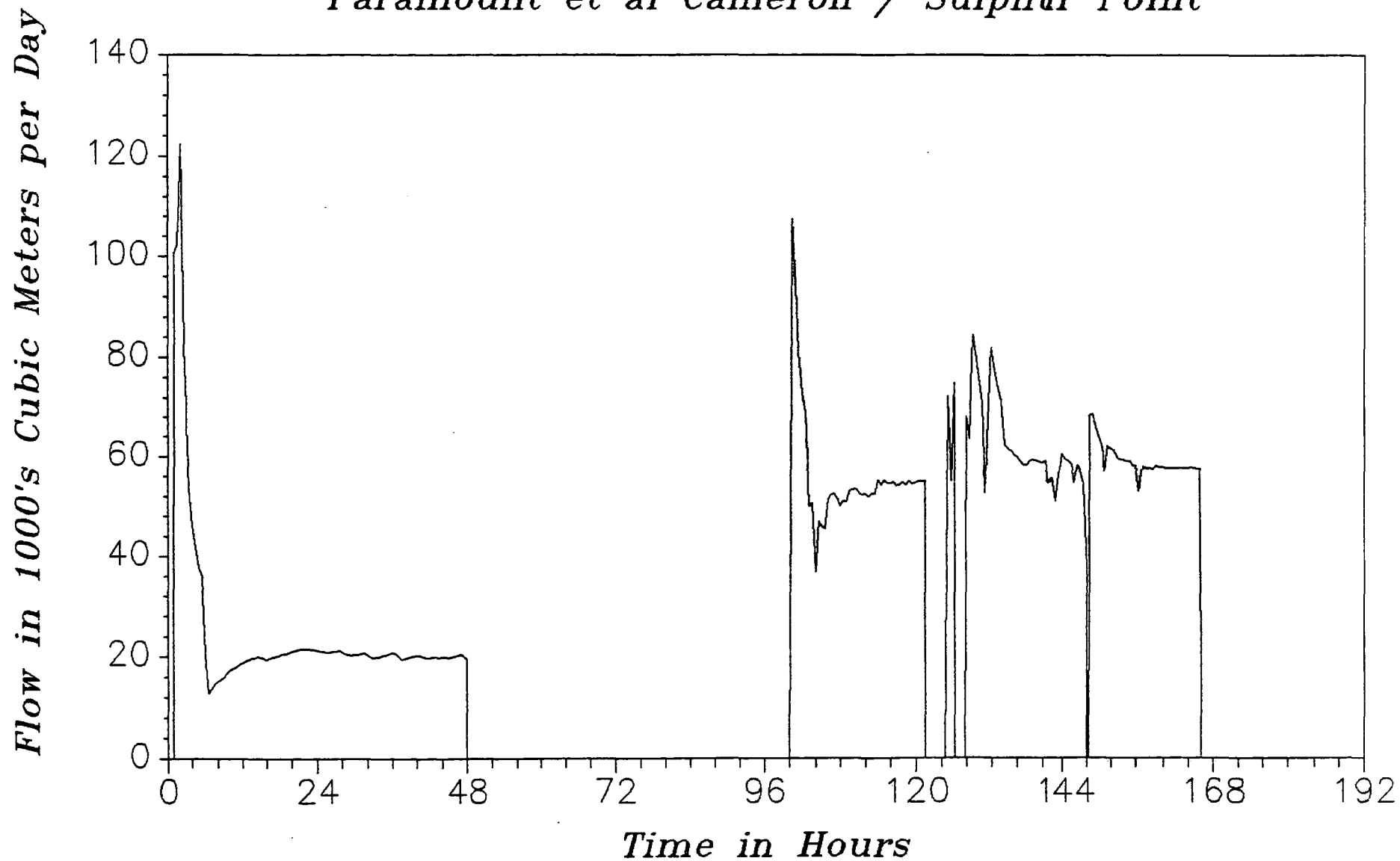
DATE	TIME	FLOW TIME	WELLHEAD			Choke or Orif.	H2S	GAS		CONDENSATE OR OIL				WATER			
			Tbg. Press	Flow Temp	Csg. Press			Q	Cumm. Prod.	Avg. hourly	Cumm. Prod.	Sp.Gr 60°F	Grind Out	Avg. hourly	Cumm. Prod.	Salin.	PH
			kPa	°C	kPa	mm	%	10 ³ m ³	10 ³ m ³	m ³ /hr	m ³	°API	%H ₂ O	m ³ /hr	m ³	ppm	
91/01/24	1800	6.9	3140	3	225	5.95		14.57	15.0834						0.10		
91/01/25	0600	18.9	4110	3		5.95	1.0	20.73	24.5254						0.10		
91/01/25	1800	30.9	3765	3		5.95	1.0	20.67	35.0122						0.10		
91/01/26	0600	42.9	3600	3		5.95	1.0	19.79	45.0218						0.10		
91/01/28	1800	3.5	4005	10	1125	9.13		50.55	59.7058					0.70	5.80	240156	6.0
91/01/29	0600	15.5	3275	8	1300	10.32	1.0	54.57	85.3053					0.10	8.20	208438	6.0
91/01/30	0600	11.8	2815	7	1600	11.51	1.5	59.00	135.732		0.10				8.50		
91/01/30	1800	3.1	2930	8	1500	11.51		62.16	163.566		0.10				8.50		
91/01/31	0600	15.1	2725	7	1400	11.51	1.0	57.66	192.678		0.10				8.50		
91/01/31	0830	17.6	2720	8	1525	11.51		57.57	198.684								



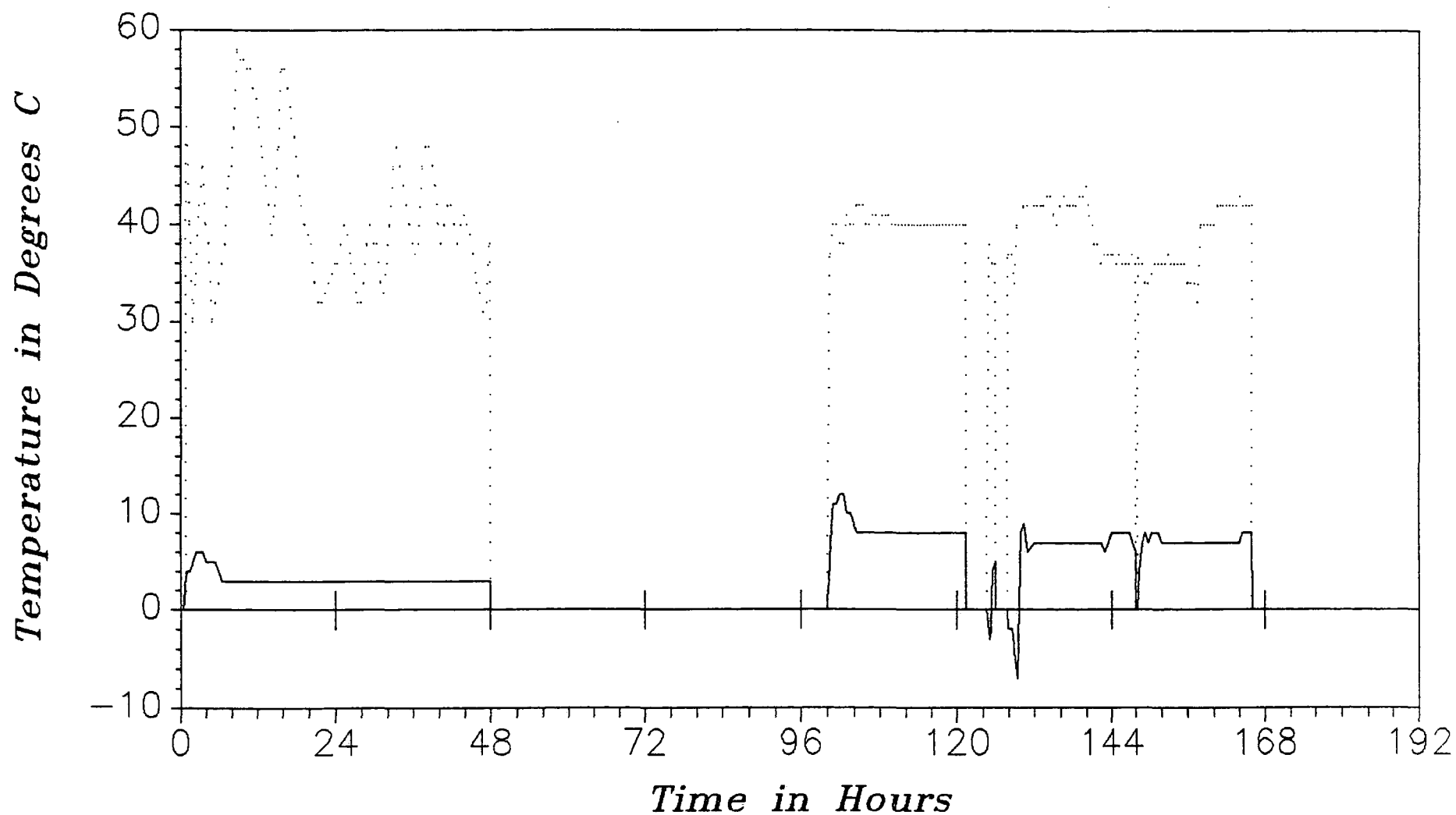
*Tubing and Separator Pressure
Clean Up B-08 60-10-117-30
Paramount et al Cameron / Sulphur Point*



Flow Rate
Clean Up B-08 60-10-117-30
Paramount et al Cameron / Sulphur Point

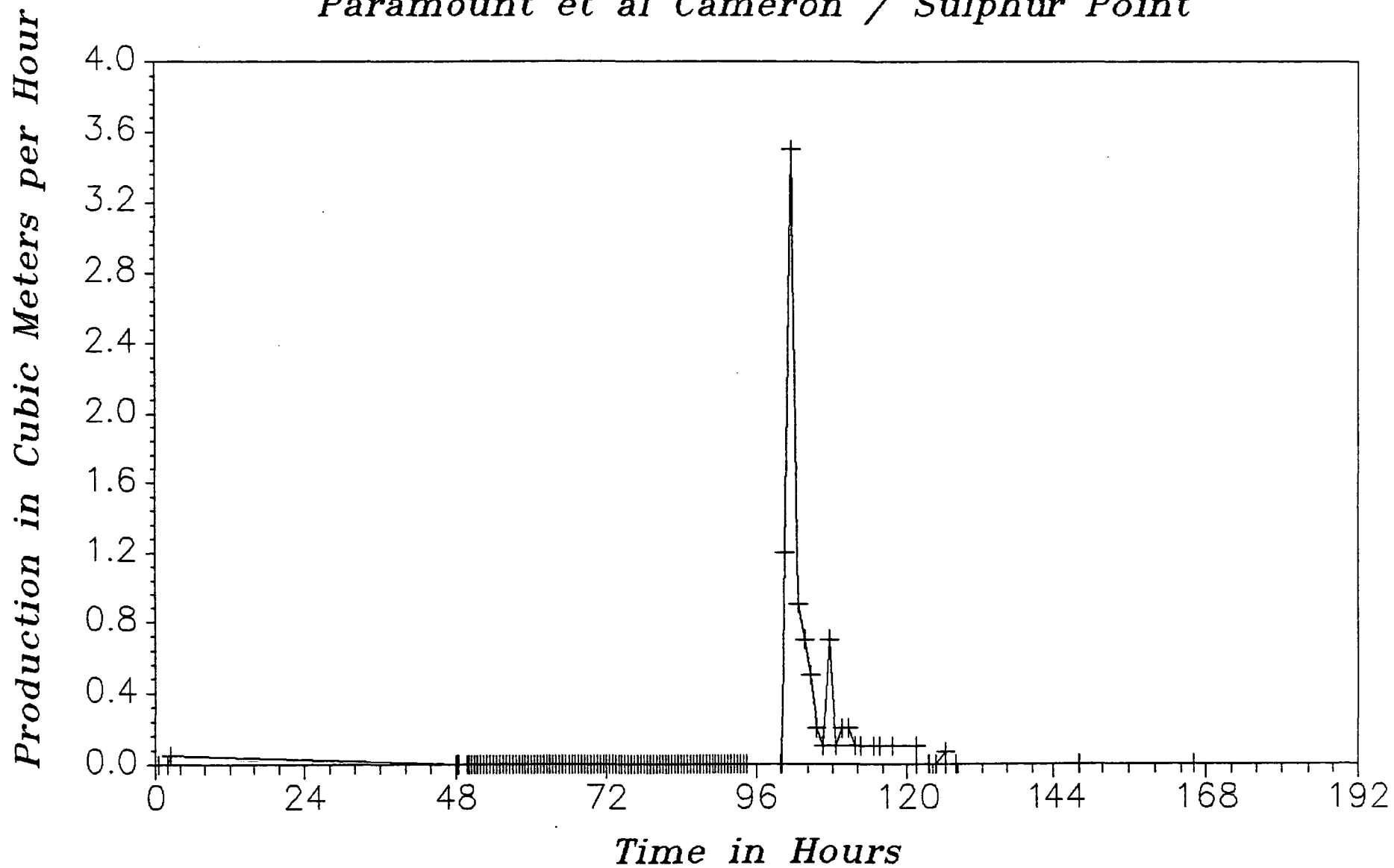


*Wellhead and Separator Temperature
Clean Up B-08 60-10-117-30
Paramount et al Cameron / Sulphur Point*



— WELLHEAD TEMP. ... SEPARATOR TEMP.

*Hourly Water Rate
Clean Up B-08 60-10-117-30
Paramount et al Cameron / Sulphur Point*



DAILY OPERATIONS SUMMARY

	DATE	TIME	DESCRIPTION
B-08 60-10-117	91/01/24	07:00	ARRIVE ON LOCATION / RIG IN TEST EQUIPMENT
		09:00	PURGE AND PREHEAT TEST EQUIPMENT
		10:00	CONDUCT SAFETY MEETING
		10:25	PRESSURE TEST DEADWEIGHT LINE
		10:30	PRESSURE TEST FLOW LINE
		10:40	PRESSURE TEST SEPARATOR TO 5000 kPa
		11:00	OPEN WELL ON 9.92 mm CHOKE
		11:00	SP. GR. OF 0.647 USED FOR FLOW RATE CALCULATIONS
		11:00	pPc = 4779.0 kPa pTc = 202.1 DEG. K.
		11:05	SHUT IN WELL / REPAIR LEAK
		11:08	OPEN WELL ON 9.92 mm CHOKE
		11:15	METER IN SERVICE 38.10 mm ORIFICE PLATE
		11:45	INCREASE CHOKE TO 11.91 mm
		12:10	INCREASE CHOKE TO 21.43 mm / SUSPECT HYDRATES
		12:15	LIQUID TO SURFACE
		14:10	DECREASE CHOKE TO 11.91 mm
		14:15	INCREASE CHOKE TO 21.43 mm
		15:10	CHANGE ORIFICE PLATE TO 28.58 mm
		16:00	DECREASE CHOKE TO 7.94 mm AS DIRECTED
		16:30	DECREASE CHOKE TO 5.95 mm
		16:45	CHANGE ORIFICE PLATE TO 19.05 mm

DAILY OPERATIONS SUMMARY

	DATE	TIME	DESCRIPTION
B-08 60-10-117	91/01/26	10:30	SHUT IN WELL FOR BUILDUPS
		10:50	CLOSE MASTER VALVE / BLEED DEADWEIGHT LINE
		10:50	WIRELINE RUNNING GAUGE RING IN HOLE TO CHECK FOR
		10:50	OBSTRUCTION AND FLUID
		12:00	RIG OUT WIRELINE / NO OBSTRUCTIONS OR FLUID FOUND
		12:00	RIG IN DEADWEIGHT LINE AND RESUME BUILD UPS
	91/01/28	09:00	RIG OFF DEADWEIGHT LINE
		09:00	RIG IN PERF BALL CATCHER
		09:00	RIG IN FRAC EQUIPMENT / PUMP DOWN 20.0 m3 ACID AND
		09:00	80 PERF BALLS
		14:15	RIG OUT FRAC EQUIPMENT / RIG IN DEADWEIGHT LINE
		14:15	PRESSURE TEST
		14:25	PRESSURE TEST FLOW LINE
		14:30	OPEN WELL ON 9.92 mm CHOKE
		14:45	INCREASE CHOKE TO 11.91 mm
		14:45	METER IN SERVICE 38.10 mm ORIFICE PLATE
		16:30	CHANGE ORIFICE PLATE TO 31.75 mm
		17:15	DECREASE CHOKE TO 9.92 mm
		17:20	DECREASE CHOKE TO 9.13 mm
		18:15	DECREASE CHOKE TO 7.94 mm
		18:15	CHANGE ORIFICE PLATE TO 25.40 mm

DAILY OPERATIONS SUMMARY

	DATE	TIME	DESCRIPTION
B-08 60-10-117	91/01/28	18:55	INCREASE CHOKE TO 8.73 mm
		19:50	ROCK CHOKE
		20:13	INCREASE CHOKE TO 9.92 mm
		20:15	METER OUT OF SERVICE
		20:20	METER IN SERVICE 31.75 mm ORIFICE PLATE
		20:20	DECREASE BACK PRESSURE
		22:00	DECREASE CHOKE TO 9.53 mm
		23:30	INCREASE CHOKE TO 9.92 mm
	91/01/29	04:15	INCREASE CHOKE TO 10.32 mm
		12:00	SHUT IN WELL / RIG IN ETU
		12:00	RECOVERED 39 PERF BALLS
		13:55	ETU STARTED DOWN HOLE / OPEN WELL ON 9.13 mm CHOKE
		14:05	SHUT IN WELL / ETU LEAKING ON INJECTOR
		15:00	ETU STARTED DOWN HOLE / OPEN WELL ON 9.13 mm CHOKE
		15:00	N2 RATE = 15m3/min
		15:20	METER IN SERVICE 31.75 mm ORIFICE PLATE
		15:45	ETU ON BOTTOM
		15:55	LIQUID TO SURFACE
		16:00	ETU COMING OUT OF HOLE
		16:45	ETU OUT OF HOLE / SHUT IN WELL / RIG OUT ETU
		16:45	RECOVERED 33 MORE BALLS / TOTAL = 72

DAILY OPERATIONS SUMMARY

	DATE	TIME	DESCRIPTION
B-08 60-10-117	91/01/29	18:15	OPEN WELL ON 9.13 mm CHOKE
		18:17	METER IN SERVICE 31.75 mm ORIFICE PLATE
		18:20	DECREASE CHOKE TO 7.94 mm
		19:10	INCREASE CHOKE TO 9.92 mm DUE TO HYDRATES
		19:20	INCREASE CHOKE TO 10.72 mm
		19:40	INCREASE CHOKE TO 13.49 mm
		19:43	INCREASE CHOKE TO 15.88 mm
		19:55	DECREASE CHOKE TO 12.70 mm
		20:10	INCREASE CHOKE TO 15.88 mm DUE TO HYDRATES
		20:15	INCREASE CHOKE TO 21.43 mm
		20:20	DECREASE BACK PRESSURE
		20:21	METER OUT OF SERVICE
		20:40	DECREASE CHOKE TO 11.91 mm
		20:45	DECREASE CHOKE TO 9.13 mm
		20:50	METER IN SERVICE 31.75 mm ORIFICE PLATE
		21:01	DECREASE CHOKE TO 7.94 mm
		21:20	INCREASE CHOKE TO 9.13 mm
		21:40	INCREASE CHOKE TO 15.88 mm
		22:10	CO2 = 6.0%
		22:20	DECREASE CHOKE TO 12.70 mm
		23:35	DECREASE BACK PRESSURE

DAILY OPERATIONS SUMMARY

	DATE	TIME	DESCRIPTION
B-08 60-10-117	91/01/30	00:01	DECREASE CHOKE TO 11.51 mm
		00:01	INCREASE BACK PRESSURE
		03:05	DECREASE BACK PRESSURE
		06:00	CO2 = 4.0%
		07:00	DECREASE CHOKE TO 10.72 mm
		09:03	DECREASE CHOKE TO 9.92 mm
		09:47	INCREASE CHOKE TO 11.51 mm
		14:45	SHUT IN WELL / REMOVE PERF BALL CATCHER TO
		14:45	ELIMINATE HYDRATE PROBLEM
		14:55	OPEN WELL ON 11.51 mm CHOKE
		16:35	DECREASE BACK PRESSURE
		23:59	DECREASE BACK PRESSURE
	91/01/31	08:35	END OF CLEAN UP / SHUT IN WELL