

9211-P33-3-1RE

**NORTHLAND
PRODUCTION TESTING LTD.**

CALGARY COPY

PRODUCTION SUMMARY

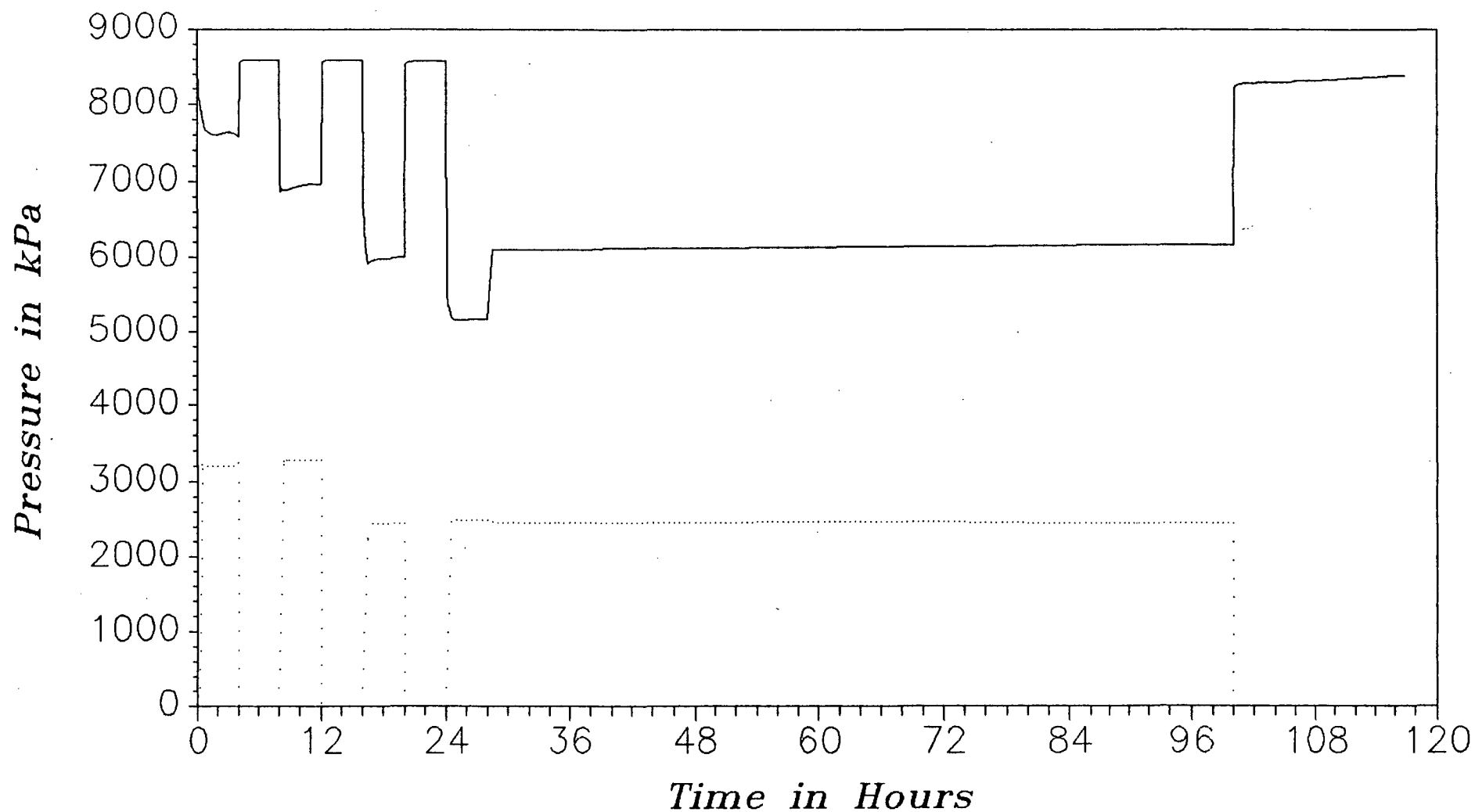
Customer: PARAMOUNT RESOURCES LTD.
Test: 4 POINT MOD. ISOCH. TEST
Duration: 91/02/14 0900 hrs. to 91/02/19 0600 hrs.

Well: PARAMOUNT et al CAMERON
L.S.D. # C-50 60-10-117-30
Formation: SULPHUR POINT

DATE	TIME	FLOW TIME	WELLHEAD			Choke		GAS		CONDENSATE OR OIL				WATER			
			Tbg. Press	Flow Temp	Csg. Press	or Orif.	Tbg. D.D.	Q	Cumm. Prod.	Avg. hourly	Cumm. Prod.	Sp.Gr 60°F	Grind Out	Avg. hourly	Cumm. Prod.	Salin.	PH
	Hrs	Hrs	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	
91/02/14	1300	4.0	7585	11	1600	7.54	11.7	69.09	11.0918					0.01	0.05	36250	7.0
91/02/14	2100	4.0	6965	14	2100	9.13	18.9	93.81	26.6176					0.05			
91/02/15	0500	4.0	6005	16	2400	11.51	30.1	125.69	47.4448					0.05			
91/02/15	1300	4.0	5170	18	2050	13.69	39.8	149.47	72.3183					0.10	0.15	49844	7.0
91/02/18	1300	72.0	6170	21	3400	11.51	28.2	128.42	456.699					0.50			

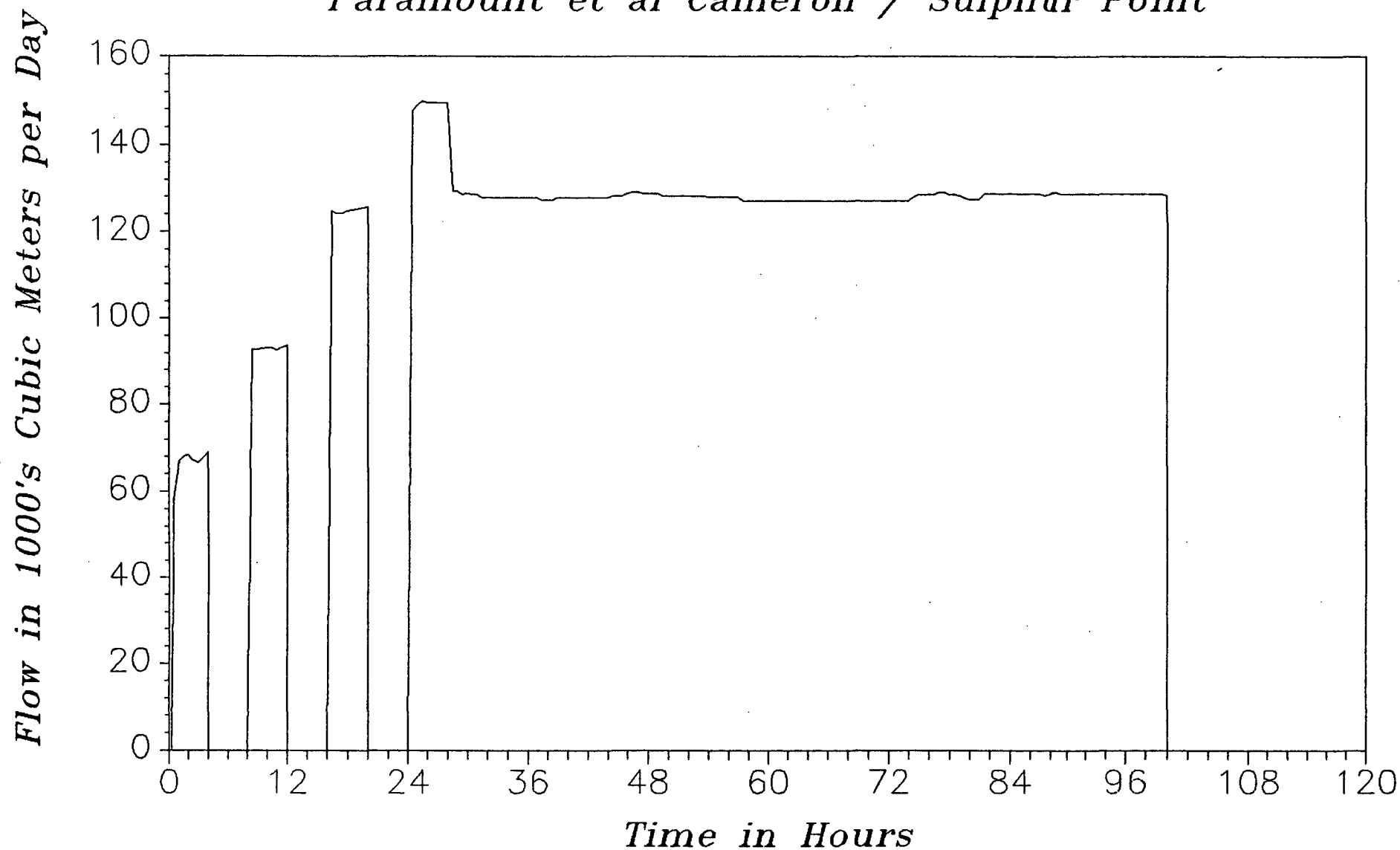


*Tubing and Separator Pressure
4 Point Mod. Isoch. C-50 60-10-117-30
Paramount et al Cameron / Sulphur Point*

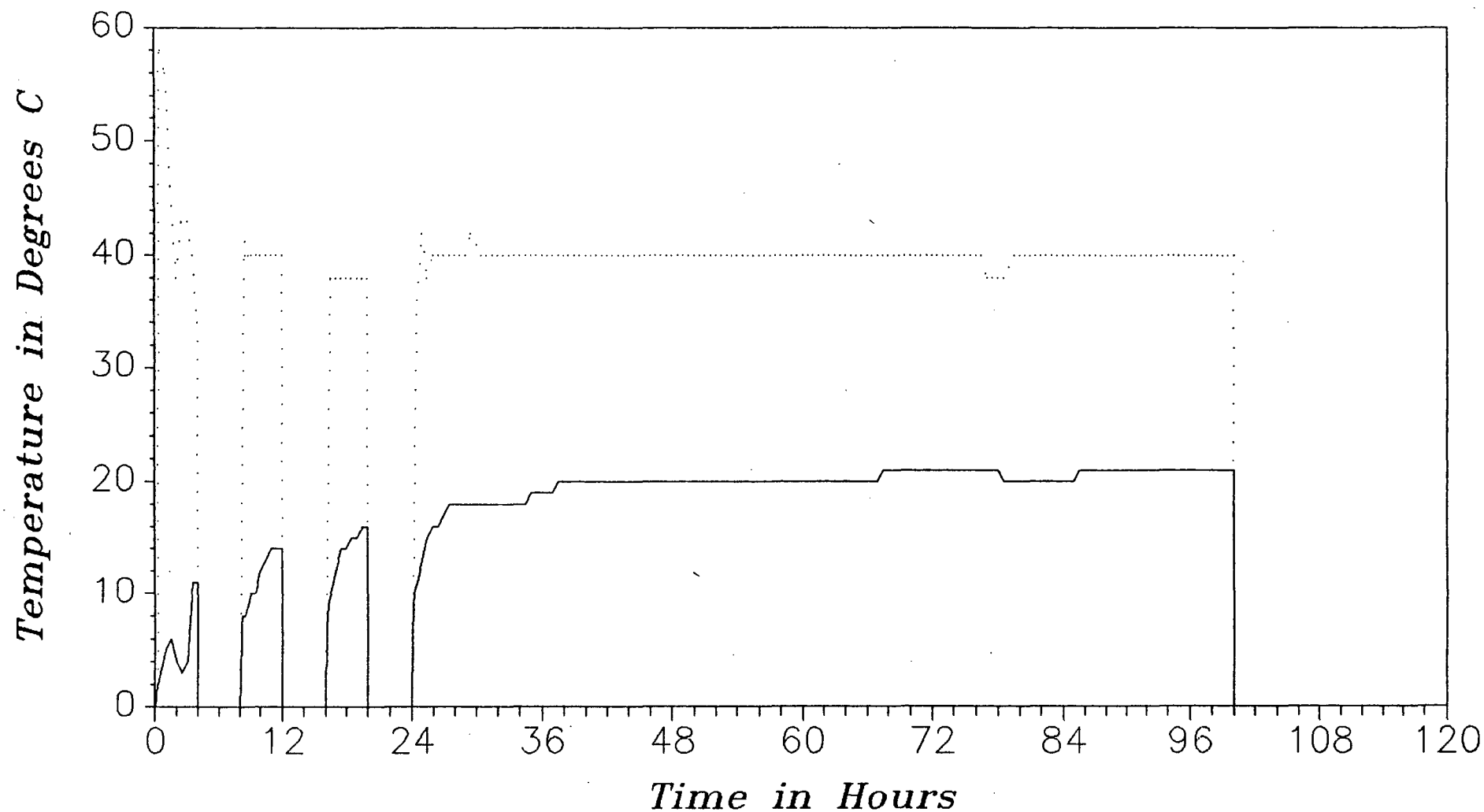


— TUBING PRESSURE . . . SEPARATOR PRESSURE

Flow Rate
4 Point Mod. Isoch. C-50 60-10-117-30
Paramount et al Cameron / Sulphur Point



*Wellhead and Separator Temperature
4 Point Mod. Isoch. C-50 60-10-117-30
Paramount et al Cameron / Sulphur Point*



— WELLHEAD TEMP. ... SEPARATOR TEMP.

DAILY OPERATIONS SUMMARY

	DATE	TIME	DESCRIPTION
C-50 60-10-117	91/02/14	09:00	OPEN WELL ON 6.35 mm CHOKE FOR RATE 1
		09:00	SP. GR. OF 0.643 USED FOR FLOW RATE CALCULATIONS
		09:00	pPc = 4882.0 kPa pTc = 197.7 DEG. K.
		09:00	METER IN SERVICE 28.58 mm ORIFICE PLATE
		09:10	INCREASE CHOKE TO 6.75 mm
		09:20	INCREASE CHOKE TO 7.14 mm
		09:31	INCREASE CHOKE TO 7.54 mm
		12:20	LIQUID TO SURFACE
		13:00	END RATE 1 / SHUT IN WELL FOR BUILDUPS
		17:00	OPEN WELL ON 9.13 mm CHOKE FOR RATE 2
		17:02	METER IN SERVICE 31.75 mm ORIFICE PLATE
		21:00	END RATE 2 / SHUT IN WELL FOR BUILDUPS
	91/02/15	01:00	OPEN WELL ON 10.32 mm CHOKE FOR RATE 3
		01:10	METER IN SERVICE 38.10 mm ORIFICE PLATE
		01:10	DECREASE BACK PRESSURE
		01:11	INCREASE CHOKE TO 10.91 mm
		01:15	INCREASE CHOKE TO 11.31 mm
		01:23	INCREASE CHOKE TO 11.71 mm
		01:31	INCREASE BACK PRESSURE
		01:40	DECREASE CHOKE TO 11.51 mm
		05:00	END RATE 3 / SHUT IN WELL FOR BUILDUPS

DAILY OPERATIONS SUMMARY

	DATE	TIME	DESCRIPTION
C-50 60-10-117	91/02/15	09:00	OPEN WELL ON 13.10 mm CHOKE FOR RATE 4
		09:00	METER IN SERVICE 44.45 mm ORIFICE PLATE
		09:15	INCREASE CHOKE TO 13.30 mm
		09:20	INCREASE CHOKE TO 13.49 mm
		09:33	INCREASE CHOKE TO 13.69 mm
		13:00	END RATE 4 / CONTINUE ON EXTENDED RATE
		13:00	DECREASE CHOKE TO 11.51 mm
	91/02/16	06:00	H2S = 1.2% (GASTECH)
	91/02/17	06:00	H2S = 1.2% (GASTECH)
	91/02/18	06:00	H2S = 1.2% (GASTECH)
		11:00	AGAT LAB HP GAS SAMPLES # 9200 # 4508
		11:00	HP OIL SAMPLES # 3369 # 3624
		11:00	2 LP WATER AND OIL SAMPLES TAKEN
		11:00	H2S = 1.32% (TUTWEILLER)
		13:00	END EXTENDED RATE / SHUT IN WELL FOR BUILDUPS
	91/02/19	06:00	END OF TEST / RIG OUT EQUIPMENT