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Available Pump (Aquifer) Test(s) — South Water Source Well No. 1-89

Well Owner: PanCanadian Petroleum Ltd.
150 - 9th Avenue S.W. (Box 2850), Calgary, Alberta

Drilled Depth: 152.4 (m)
Completed Depth: 139.6 (m)
Top of Bedrock: 5.5 m *

Completion Interval: 133.5 m - 139.6 m *

Legal Location: SE 23-043-28 W4M

Test No. 1	Test Details	Test Started: 22 Mar 1989 @ 16:00	General Details	Pump Details: [none specified]	(14)
		Test Method: Pump		Pipe Details:	
		Test Rate (lpm): 160.4 (average)		Transmissivity (m ² /day): Apparent*: — Effective: 180 Aquifer: —	
		Pumping Interval: 60 (minutes)		Q20 (m ² /day): Apparent*: — Effective: —	
		Recovery Interval: 60 (minutes)		Recommendations: Intake: — Rate: —	
		Test Interval: — (m)			
		NPWL: — (m)			
Total Drawdown: — (m)					
Level at End: 85 (m)					

As OBS WW	Test Details	Test Started: 21 Apr 1989 @ 10:30	General Details	Pump Details: [none specified]	(61)
		Test Method: Pump		Pipe Details:	
		Test Rate (lpm): 453 (average)		Transmissivity (m ² /day): Apparent*: 442 Effective: — Aquifer: 68	
		Pumping Interval: 1,110 (minutes)		Q20 (m ² /day): Apparent*: 8,201 Effective: —	
		Recovery Interval: 6,000 (minutes)		Recommendations: Intake: — Rate: —	
		Test Interval: — (m)			
		NPWL: 84.53 (m)			
Total Drawdown: 2.4 (m)					
Level at End: 86.9 (m)					
Used as Observation Water Well During Aquifer Test No. VIII with North Water Source Well No. 1-88 (M35377.092577)					

Test No. 2	Test Details	Test Started: 23 Mar 1989 @ 12:00	General Details	Pump Details: [none specified]	(14)
		Test Method: Pump		Pipe Details:	
		Test Rate (lpm): 183.4 (average)		Transmissivity (m ² /day): Apparent*: — Effective: 110 Aquifer: —	
		Pumping Interval: 60 (minutes)		Q20 (m ² /day): Apparent*: — Effective: —	
		Recovery Interval: 60 (minutes)		Recommendations: Intake: — Rate: —	
		Test Interval: — (m)			
		NPWL: — (m)			
Total Drawdown: — (m)					
Level at End: 85.4 (m)					

As OBS WW	Test Details	Test Started: 26 Apr 1989 @ 11:57	General Details	Pump Details: [none specified]	(47)
		Test Method: Pump		Pipe Details:	
		Test Rate (lpm): 453.2 (average)		Transmissivity (m ² /day): Apparent*: 785 Effective: 24 Aquifer: 120	
		Pumping Interval: 6,000 (minutes)		Q20 (m ² /day): Apparent*: 14,478 Effective: —	
		Recovery Interval: 6,900 (minutes)		Recommendations: Intake: — Rate: —	
		Test Interval: — (m)			
		NPWL: 84.83 (m)			
Total Drawdown: 1.5 (m)					
Level at End: 86.3 (m)					
Used as Observation Water Well During Aquifer Test No. IX with North Water Source Well No. 1-88 (M35377.092577)					

Test No. 3	Test Details	Test Started: 01 Apr 1989 @ 11:00	General Details	Pump Details: [none specified]	(48)
		Test Method: Air		Pipe Details:	
		Test Rate (lpm): 272.76 (average)		Transmissivity (m ² /day): Apparent*: 256 Effective: — Aquifer: —	
		Pumping Interval: — (minutes)		Q20 (m ² /day): Apparent*: 4,633 Effective: —	
		Recovery Interval: — (minutes)		Recommendations: Intake: — Rate: —	
		Test Interval: — (m)			
		NPWL: 85.64 (m)			
Total Drawdown: 2.1 (m)					
Level at End: 87.8 (m)					
Test Remarks: 'Test_Rate_Average' not based on pumping data, only reported value on drilling report. ///					

As OBS WW	Test Details	Test Started: 08 May 1989 @ 12:15	General Details	Pump Details: [none specified]	(49)
		Test Method: Pump		Pipe Details:	
		Test Rate (lpm): 431.8 (average)		Transmissivity (m ² /day): Apparent*: 188 Effective: 10 Aquifer: 20	
		Pumping Interval: 6,000 (minutes)		Q20 (m ² /day): Apparent*: 3,384 Effective: —	
		Recovery Interval: 5,350 (minutes)		Recommendations: Intake: — Rate: —	
		Test Interval: — (m)			
		NPWL: 85.92 (m)			
Total Drawdown: 5.6 (m)					
Level at End: 91.5 (m)					
Used as Observation Water Well During Aquifer Test No. X with North Water Source Well No. 1-88 (M35377.092577)					

Test No. 4	Test Details	Test Started: 19 Apr 1989 @ 17:49	General Details	Pump Details: [none specified]	(48)
		Test Method: Pump		Pipe Details:	
		Test Rate (lpm): 221.5 (average)		Transmissivity (m ² /day): Apparent*: 96 Effective: — Aquifer: —	
		Pumping Interval: 50 (minutes)		Q20 (m ² /day): Apparent*: 1,738 Effective: —	
		Recovery Interval: — (minutes)		Recommendations: Intake: — Rate: —	
		Test Interval: — (m)			
		NPWL: 85.52 (m)			
Total Drawdown: 4.2 (m)					
Level at End: 89.7 (m)					
Test Remarks: Step-drawdown test (5 steps); 1 thru 5, 10 minutes.					

* The Groundwater Centre calculated or determined value.



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Test No. 5	Test Details	Test Started: 07 Dec 1990 @ 11:00	General Details	Pump Details: <i>[none specified]</i>		
		Test Method: Air		Pipe Details:		
		Test Rate (lpm): 454.6 (average)		Transmissivity (m ² /day): Apparent*: 75	Effective: —	Aquifer: —
		Pumping Interval: — (minutes)		Q20 (m ² /day): Apparent*: 1,362	Effective: —	
		Recovery Interval: — (minutes)		Recommendations: Intake: —	Rate: —	
		Test Interval: — (m)		Test Remarks: 'Test_Rate_Average' not based on pumping data, only reported value on drilling report. ///		
		NPWL: 85.64 (m)				
		Total Drawdown: 11.3 (m)				
		Level at End: 96.9 (m)				