



**Manitoba's Designated
Oil Fields & Pools
2025**

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Manitoba Geological Survey
Manitoba Economic Development, Investment, Trade & Natural Resources

January 1, 2025

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FOREWORD

This annual report was compiled in accordance with section 11(4) of The Oil & Gas Act. This order does not include previously designated fields and pools that have been amalgamated or reassigned.

This report details the boundaries of the known oil fields and pools in Manitoba on January 1, 2025, with an off confidential release date cutoff of January 1, 2025. It states the names and numerical codes used in the Manitoba Oil and Gas Information System (MOGWIS) to track the area and stratigraphic interval producing oil. Further information pertaining to the history of field or pool designations may be obtained by contacting the Manitoba Geological Survey.

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MANITOBA'S DESIGNATED FIELDS

Effective **January 1, 2025**, the following fields are designated under section 11(4)(b) of The Oil and Gas Act. Each oil field is given a two digit number designation, found in Table 1; this field code becomes the first two digits of the field pool code. The field boundaries are shown in Figure 1.

The area encompassed by each field is outlined on the reference plats (Figures 3 to 6) as per the index map in Figure 2. All fields and pools are drawn on the Dominion Land Survey (DLS) system grid, and maps include the township, section and quarter section grid, depending on the scale of the map. Appendix A describes the DLS system grid.

Table 1: Manitoba's designated field codes and index map numbers.

FIELD	FIELD CODE	MAP #
Daly Sinclair Field	01	2
Tilston Field	02	3
Waskada Field	03	3
Lulu Lake Field	04	4
Viriden Field	05	2
Whitewater Field	06	4
Pierson Field	07	3
Kirkella Field	09	2
Souris Hartney Field	10	4
Regent Field	13	4
Mountainside Field	14	4
Birdtail Field	15	1
Manson Field	17	1 & 2

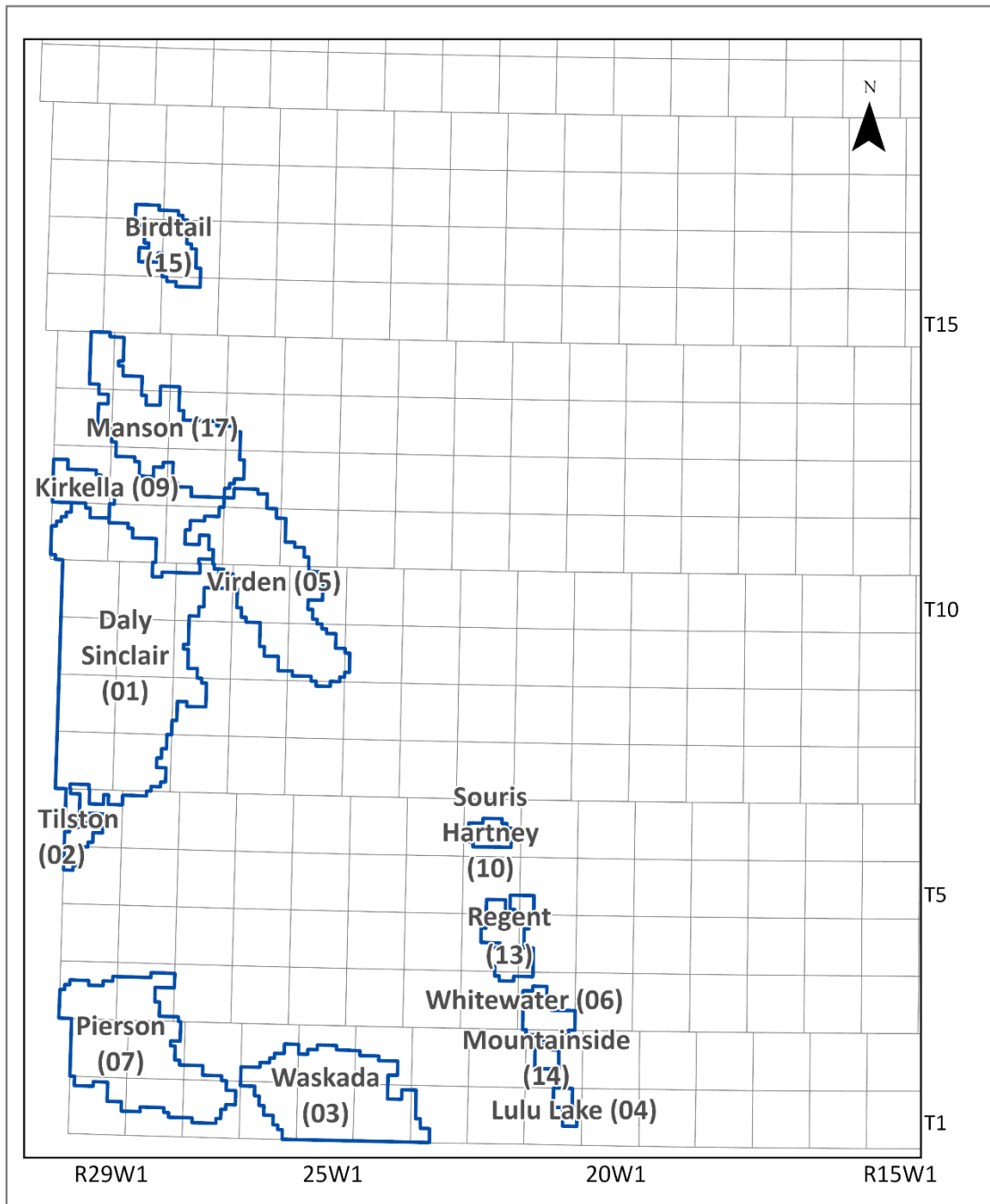


Figure 1: Oil field locations with field names and field codes, southwestern Manitoba.

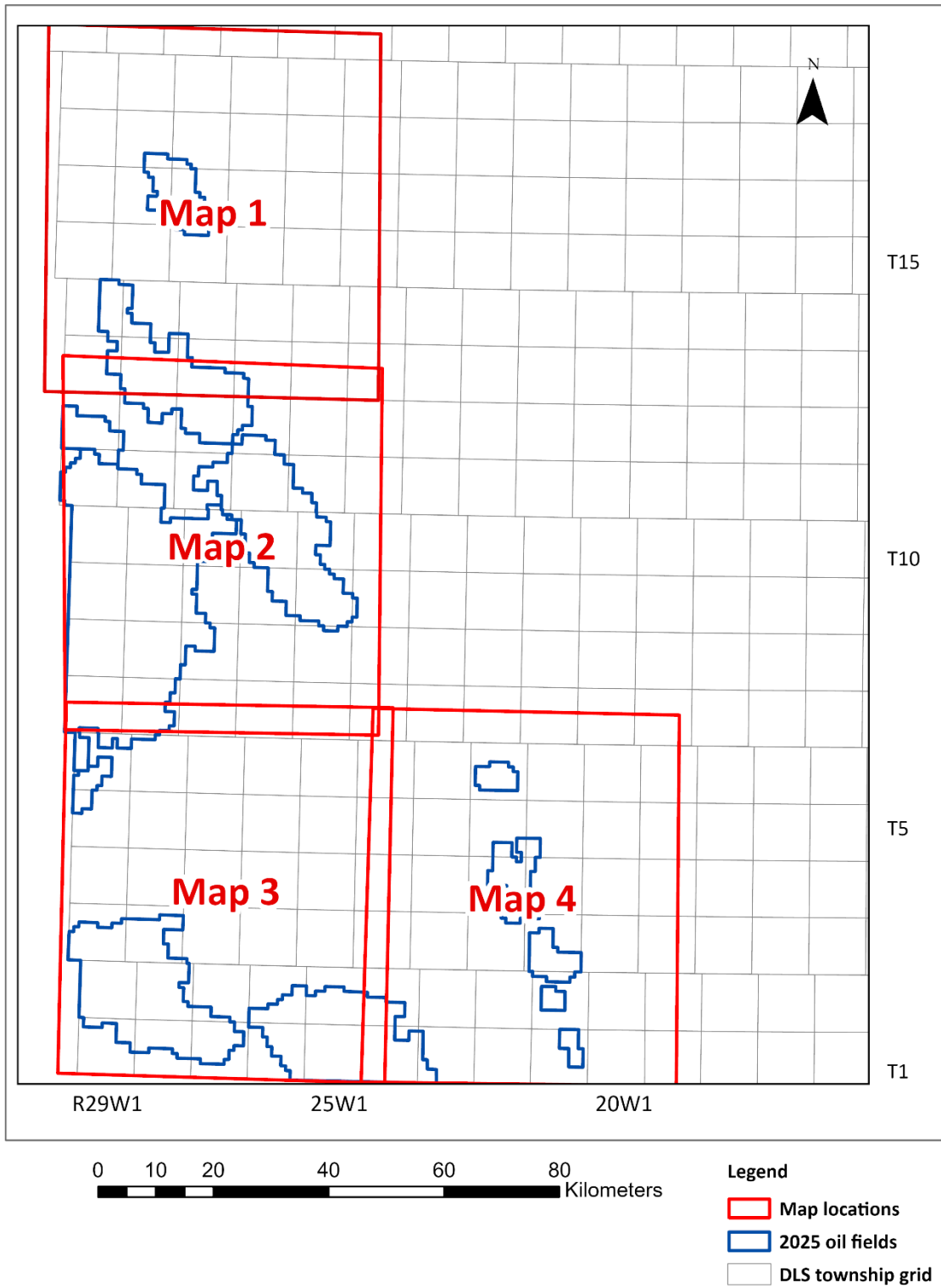


Figure 2: Index of map locations and map numbers used for pool plats.

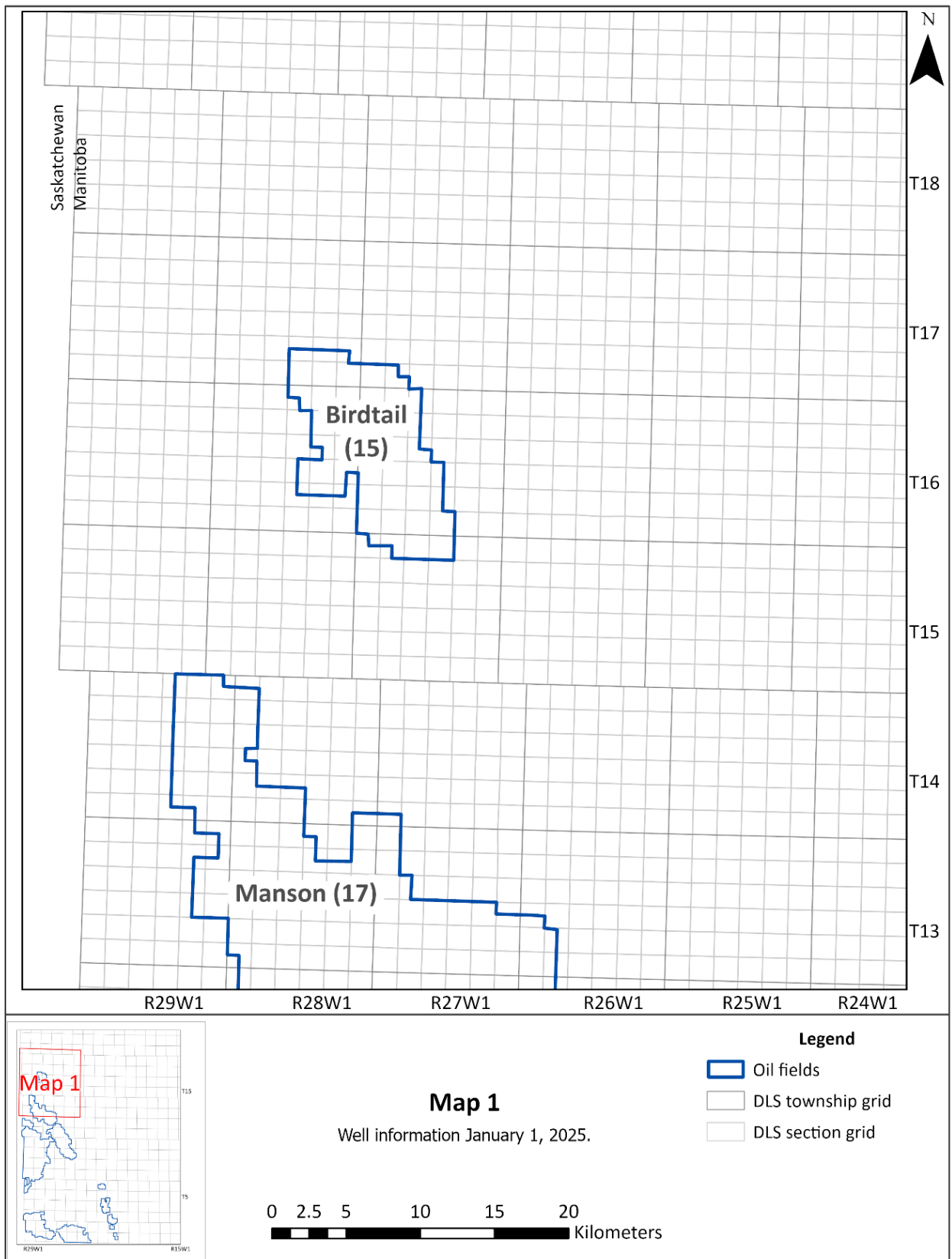


Figure 3: Map 1; Birdtail Field and parts of Manson Field.

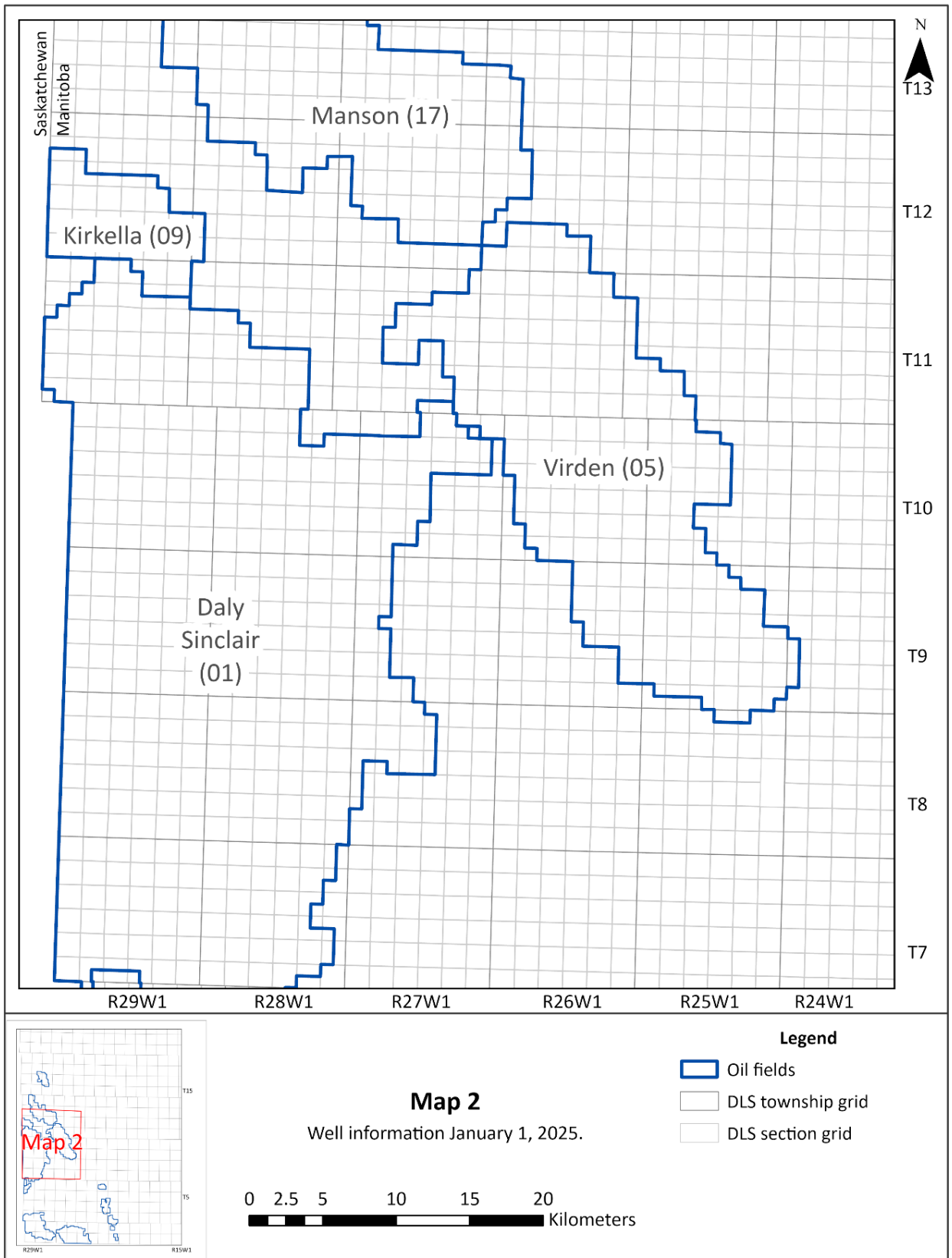


Figure 4: Map 2; Daly Sinclair, Virden, Kirkella and Manson fields.

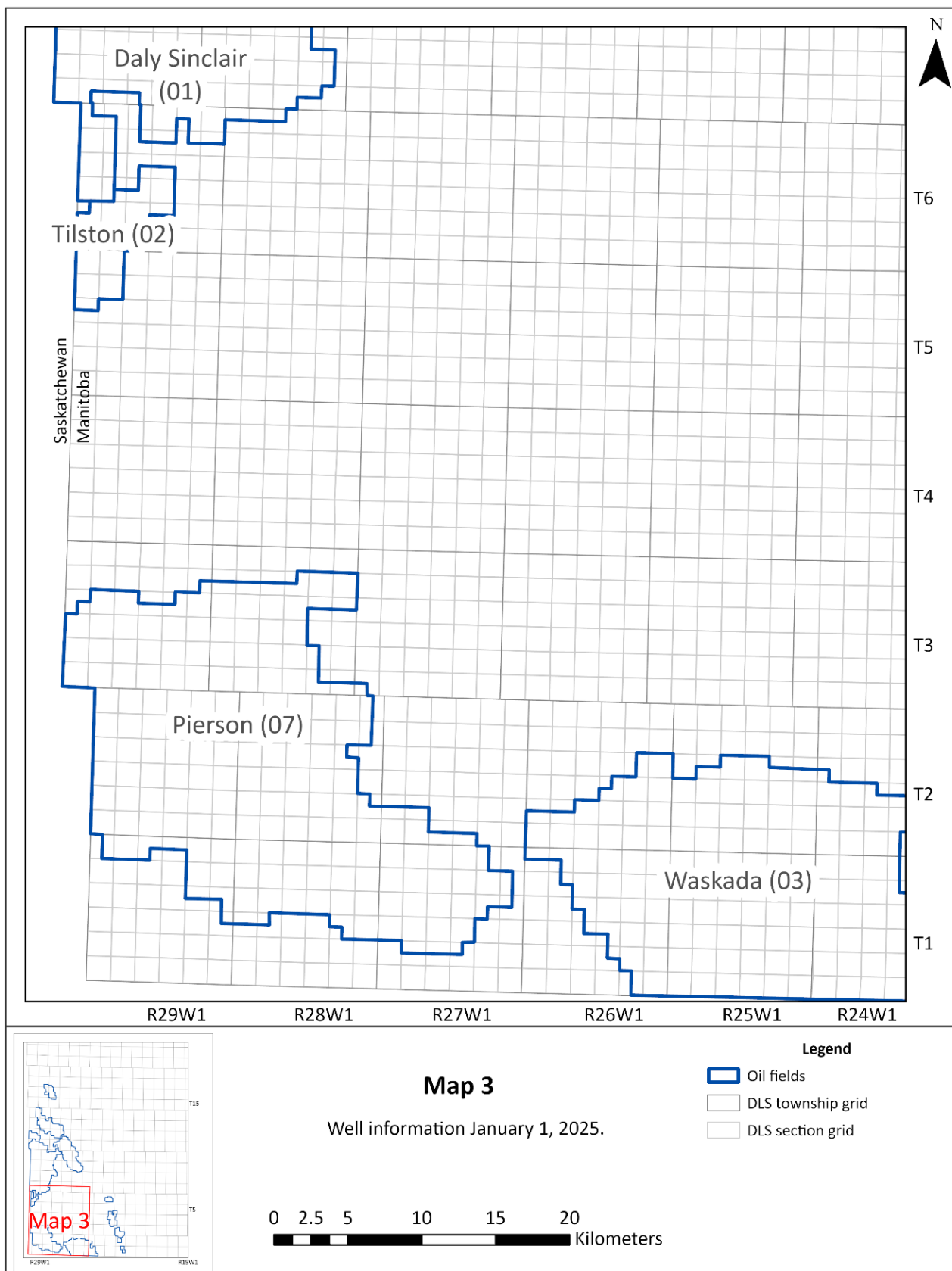


Figure 5: Map 3; Daly Sinclair, Tilston, Waskada and Pierson fields.

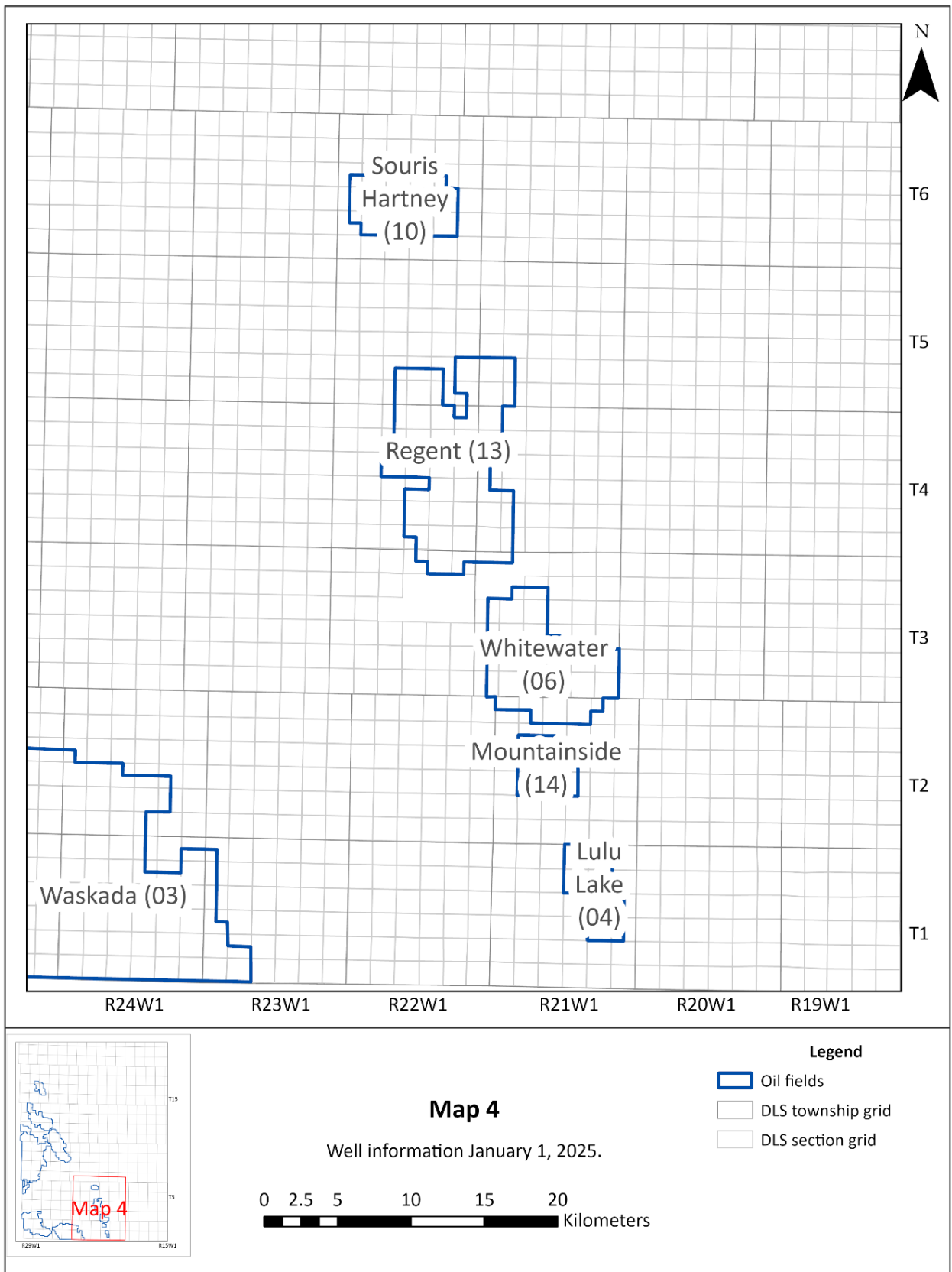


Figure 6: Waskada, Lulu Lake, Whitewater, Souris Hartney, Regent and Mountainside fields.

MANITOBA'S DESIGNATED POOLS

Effective **January 1, 2025** the following oil pools are designated under clause 11(4)(a) of the Oil and Gas Act.

A list of all Manitoba oil pools can be found in Table 2, with their respective discovery or reference well. A graphic representation of the area encompassed by each oil pool is shown in Figures 7 to 31 by stratigraphic interval. The listing of Manitoba Pool Codes by Formation can be found in Appendix B. The stratigraphy of the Williston Basin in Manitoba showing the stratigraphic intervals by Period, Epoch, Group, Formation and Member can be found in Appendix C.

Pool codes are assigned in the following manner: Each oil pool is given a two digit formation code number followed by a letter designation denoting the sequence of discovery; this pool code follows the two digit field code and is comprised of three to five digits.

Table 2: Manitoba's designated oil pools.

POOL	FIELD POOL CODE	FIGURE #	REFERENCE WELL	
			UWI	TVD INTERVAL (meters KB)
DALY SINCLAIR FIELD				
Upper Amaranth A	01 23A	9	102/09-35-009-28W1/00	695.2-698.2
Lodgepole A	01 59A	14	100/14-04-010-28W1/00	725.4-821.4
Lodgepole C	01 59C	14	100/03-33-008-27W1/00	736.7-837.0
Lodgepole K	01 59K	14	100/08-30-010-29W1/00	788.0-877.5
Lodgepole P	01 59P	14	100/03-27-010-29W1/00	769.0-853.2
Lodgepole W	01 59W	14 & 25	100/10-18-007-29W1/00	927.5-932.5
Lodgepole X	01 59X	14 & 25	100/02-21-007-28W1/00	
Lodgepole FF	01 59FF	14	100/12-11-011-29W1/00	730.5-733.5; 748.5-751
Lodgepole GG	01 59GG	14	100/06-16-011-29W1/00	744-783.3
Lodgepole HH	01 59HH	14	100/05-10-011-29W1/00	826.6-827.7
Lodgepole II	01 59II	14	100/11-27-011-29W1/00	836.5-838; 839-840
Lodgepole JJ	01 59JJ	14	102/12-34-011-29W1/00	730-748.2
Lodgepole MM	01 59MM	14	102/01-14-008-29W1/00	846.93
Lodgepole OO	01 59OO	14	102/09-29-008-29W1/00	871.02-877.05
Lodgepole PP	01 59PP	14	100/08-07-011-29W1/00	782.5-783.5
Lodgepole QQ	01 59QQ	25	100/06-36-006-29W1/00	872.3-875.2
Lodgepole SS	01 59SS	14	100/10-29-007-28W1/00	833-835; 839-843
Bakken J Pool	01 60J	15	100/07-18-010-27W1/02	780.3-784.6
Bakken- Torquay A	01 62A	15, 26	100/01-22-010-29W1/00	859.5-866.0
Bakken- Torquay N	01 62N	15	103/04-24-010-28W1/02	814.0-917.0
Bakken- Torquay Q	01 62Q	15	100/08-30-009-27W1/00	834.0-873.0
Bakken- Torquay R	01 62R	15	100/16-31-009-27W1/02	832.5-834.5
Bakken- Torquay X	01 62X	15,26	100/03-34-006-29W1/00	1029-1041
Bakken- Torquay Z	01 62Z	15	100/07-16-011-29W1/00	753-757.5; 842-846
Bakken- Torquay CC	01 62CC	15	100/12-24-011-29W1/00	837-840; 842-846
Bakken- Torquay DD	01 62DD	15	100/12-34-010-27W1/00	765-774.34
Bakken- Torquay GG	01 62GG	26	102/02-30-006-29W1/00	1096.18-1106.81
Bakken- Torquay HH	01 62HH	15	102/01-26-010-27W1/00	770.22-782.03
Bakken- Torquay II	01 62II	26	100/16-18-006-29W1/00	1099-1105.95
Torquay B	01 65B	16	100/09-30-007-28W1/00	969.0-971.0
TILSTON FIELD				
Mission Canyon 1 A	02 44A	24	100/06-31-005-29W1/00	940.0-969.0
Mission Canyon 1 C	02 44C	24	100/02-08-006-29W1/00	925.0-940.0
Mission Canyon 1 D	02 44D	24	100/11-15-006-29W1/00	907.0-910.5

POOL	CODE	FIGURE #	REFERENCE WELL	
			UWI	TVD INTERVAL (meters KB)
Bakken- Torquay A	02 62A	26	100/13-29-005-29W1/00	1118.7-1120.7
WASKADA FIELD				
Favel A	03 10A	17	100/01-03-002-25W1/02	479.5-841.0
Favel B	03 10B	17	100/03-27-001-25W1/02	478.0-479.5
Favel C	03 10C	17	100/10-17-001-24W1/00	481.5-484.5
Lower Amaranth A	03 29A	18, 27	100/11-30-001-25W1/03	884.5-920.5
Lower Amaranth I	03 29I	18, 27	100/03-01-001-25W1/00	873.7-910.0
Lower Amaranth J	03 29J	18	100/01-03-001-25W1/00	885.0-920.5
Lower Amaranth O	03 29O	18, 27	100/13-10-002-24W1/00	869.5-879.5
Lower Amaranth P	03 29P	27	100.04-05-001-23W1.02	970.5-972.0
Mission Canyon 3b A	03 42A	21	100/11-30-001-25W1/03	920.5-929.6
Mission Canyon 3b B	03 42B	21	100/13-27-001-26W1/00	920.0-936.5
Mission Canyon 3b C	03 42C	21	100/05-07-001-25W1/00	931.5-941.0
Mission Canyon 3b E	03 42E	21	100/04-08-001-25W1/00	936.0-948.0
Mission Canyon 3b F	03 42F	21	100/11-22-001-26W1/02	929.5-948.0
Mission Canyon 3b G	03 42G	21	100/11-05-002-26W1/00	929.0-955.5
Mission Canyon 3a A	03 43A	22	100/01-25-001-26W1/00	928.0-950.0
Mission Canyon 3a B	03 43B	22	100/12-23-001-25W1/00	904.6-912.6
Mission Canyon 3a C	03 43C	22	100/12-26-001-26W1/00	924.0-940.0
Mission Canyon 3a D	03 43D	22	100/10-30-001-25W1/00	921.0-931.0
Mission Canyon 3a E	03 43E	22	100/02-12-001-26W1/02	930.0-944.0
Mission Canyon 3a F	03 43F	22	100/15-05-001-25W1/00	931.0-941.0
Mission Canyon 3a G	03 43G	22	100/12-31-001-25W1/00	912.5-929.0
Mission Canyon 3a H	03 43H	22	100/06-18-002-251W1/00	899.0-907.0
Mission Canyon 3a I	03 43I	22	100/07-35-001-26W1/00	917.0-935.0
Mission Canyon 3a K	03 43K	22	100/06-19-001-25W1/00	924.0-934.0
Mission Canyon 3a L	03 43L	22	100/08-32-001-25W1/00	909.5-917.0
Mission Canyon 3a M	03 43M	22	100/10-10-001-25W1/00	915.0-925.0
Mission Canyon 3a N	03 43N	22	100/02-20-001-25W1/00	919.5-930.0
Mission Canyon 1 A	03 44A	23	100/01-30-001-25W1/00	917.4-947.9
Mission Canyon 1 B	03 44B	23	100/09-13-001-26W1/00	920.5-967.4
Mission Canyon 1 C	03 44C	23	100/02-22-001-25W1/00	908.3-943.0
Mission Canyon 1 D	03 44D	23	100/04-09-002-25W1/00	986.0-912.0
Mission Canyon 1 E	03 44E	23	100/06-33-001-25W1/00	905.5-942.0
Mission Canyon 1 F	03 44F	23	100/02-27-001-25W1/00	902.5-930.0
Mission Canyon 1 G	03 44G	23, 28	100/04-05-001-24W1/00	910.0-937.0
Mission Canyon 1 H	03 44H	23, 28	100/03-24-001-25W1/00	898.0-910.0

POOL	CODE	FIGURE #	REFERENCE WELL	
			UWI	TVD INTERVAL (meters KB)
Mission Canyon 1 I	03 44I	23, 28	100/02-14-002-25W1/00	882.0-915.0
Mission Canyon 1 J	03 44J	23	100/04-24-002-26W1/00	898.0-900.0
Mission Canyon 1 K	03 44K	23, 28	100/02-33-001-24W1/00	871.7-900.0
Mission Canyon 1 L	03 44L	28	100/04-12-001-24W1/00	941.5-946.0
Mission Canyon 1 M	03 44M	28	100/09-25-001-24W1/00	939.5-941.5
Mission Canyon 1 N	03 44N	28	100/06-07-001-24W1/00	897.5-898.5
Mission Canyon 1 O	03 44O	23, 28	100/13-09-002-24W1/00	865.0-873.0
Mission Canyon 1 P	03 44P	23, 28	100/15-10-002-24W1/00	888.8-893.8
Mission Canyon 1Q	03 44Q	23, 28	100/07-06-002-24W1/00	876.5-878.5
Mission Canyon undifferentiated A	03 49A	24	100/09-13-001-26W1/00	924.7-935.41
LULU LAKE FIELD				
Lodgepole WL A	04 52A	29	100/08-23-001-21W1/00	1008.5-1027.0
Lodgepole WL B	04 52B	29	100/15-27-001-21W1/00	1005.5-1024.0
VIRDEN FIELD				
Reston A	05 21A	9	100/08-06-012-26W1/00	569-574
Lodgepole A	05 59A	14	102/06-27-011-26W1/00	563.9-667.0
Lodgepole B	05 59B	14	100/06-28-010-26W1/00	623.0-726.0
Lodgepole C	05 59C	14	100/10-21-009-25W1/00	595.0-648.0
Lodgepole D	05 59D	14	100/07-11-009-25W1/00	598.9-655.3
Lodgepole E	05 59E	14	100/07-26-009-26W1/00	634.0-732.1
Lodgepole G	05 59G	14	100/10-01-011-27W1/00	647.0-710.0
Lodgepole K	05 59K	14	100/15-16-011-27W1/00	895.2
WHITEWATER FIELD				
Lower Amaranth A	06 29A	27	100/04-21-003-21W1/02	745.0-757.7
Lodgepole WL A	06 52A	29	100/16-17-003-21W1/00	759.6-786.1
Lodgepole Virden A	06 53A	30	100/05-12-003-21W1/00	787.0-804.5
PIERSON FIELD				
Lower Amaranth A	07 29A	18	100/04-26-003-28W1/00	915.7-949.5
Lower Amaranth B	07 29B	18	100/12-30-002-28W1/02	955.0-992.0
Lower Amaranth S	07 29S	18	100/02-31-002-29W1/00	
Lower Amaranth T	07 29T	18	100/15-32-001-29W1/02	

POOL	CODE	FIGURE #	REFERENCE WELL	
			UWI	TVD INTERVAL (meters KB)
Lower Amaranth V	07 29V	18	100/11-35-002-28W1/00	952.94
Lower Amaranth W	07 29W	18	100/06-07-002-29W1/00	1029.5-1032.5
Lower Amaranth X	07 29X	18	102/01-03-003-29W1/00	1000.2-1003.76
Lower Amaranth – Mission Canyon 3b A	07 35A	19	100/14-17-002-29W1/02	1023.5-1028.5; 1036.5-1038.8
Lower Amaranth – Mission Canyon 3b B	07 35B	19	100/01-35-002-28W1/00	959.0-963.0; 950.5-956.5
Lower Amaranth – Mission Canyon 3b C	07 35C	19	100/11-34-002-28W1/00	974-975; 955-961
Lower Amaranth – Mission Canyon 3b D	07 35D	19	100/15-20-002-28W1/02	975.0-979.0; 988.5-990
Mission Canyon 3 B	07 41B	20	100/14-05-002-28W1/02	1007.5-1030.0
Mission Canyon 3 C	07 41C	20	100/12-06-003-29W1/00	1165.0-1605.0 MD
Mission Canyon 3 D	07 41D	20	100/07-21-001-27W1/00	
Mission Canyon 3b B	07 42B	21	100/08-07-003-28W1/00	981.5-990.6
Mission Canyon 3b C	07 42C	21	100/06-17-003-29W1/00	1002.0-1016.0
Mission Canyon 3b D	07 42D	21	100/13-32-002-29W1/00	1021.1-1033.3
Mission Canyon 3b E	07 42E	21	100/11-30-002-28W1/00	990.0-1002.0
Mission Canyon 3b J	07 42J	21	100/13-33-001-28W1/00	1002.0-1026.0
Mission Canyon 3b K	07 42K	21	100/05-30-001-28W1/00	1025.0-1043.5
Mission Canyon 3b L	07 42L	21	100/06-23-002-29W1/00	1012-1020
Mission Canyon 3b M	07 42M	21	100/08-06-002-27W1/00	967.7-969.7
Mission Canyon 3b N	07 42N	21	100/04-34-002-28W1/00	974.5-975.8
Mission Canyon 3b O	07 42O	21	100/09-26-002-28W1/00	963-965
Mission Canyon 3b Q	07 42Q	21	100/10-29-002-29W1/00	1029.5-1031.5
Mission Canyon 3b R	07 42R	21	104/07-21-001-27W1/00	971.69-976.67
Mission Canyon 3b S	07 42S	21	100/07-28-002-29W1/00	1149-2417 MD
Mission Canyon 3b T	07 42T	21	104/06-34-001-28W1/00	996.63-1002.42
Mission Canyon 3b U	07 42U	21	100/16-26-001-28W1/02	994.72-1005.3
Mission Canyon 3a A	07 43A	22	100/08-16-003-29W1/00	999.7-1018.0
Mission Canyon 3a B	07 43B	22	100/09-18-003-28W1/00	976.9-990.6
Mission Canyon 3a E	07 43E	22	100/06-10-003-28W1/00	970.3-985.0
Mission Canyon 3a F	07 43F	22	100/14-05-003-29W1/03	1085.0-1385.0 MD
Mission Canyon 3a G	07 43G	22	100/06-36-002-29W1/02	1002.8-1003.85
Mission Canyon 3a H	07 43H	22	100/10-29-002-29W1/00	1029.5-1031.5
Mission Canyon 1 A	07 44A	22	100/04-25-003-28W1/00	948.0-980.0
KIRKELLA FIELD				
Lodgepole Dolomite A	09 51A	11	100/14-08-012-29W1/00	725.0-742.0

POOL	CODE	FIGURE #	REFERENCE WELL	
			UWI	TVD INTERVAL (meters KB)
Lodgepole Dolomite B	09 51B	11	100/04-19-012-29W1/00	729.0-744.0
Lodgepole Daly A	09 54A	12	100/14-10-012-29W1/00	
Lodgepole Daly B	09 54B	12	100/05-17-012-29W1/00	
Lodgepole Daly B	09 54C	12	100/04-18-012-29W1/00	
Lodgepole Daly D	09 54D	12	100/14-01-012-29W1/00	714.0-740.0
Lodgepole Daly E	09 54E	12	100/16-06-012-29W1/00	746.0-758.0
Lodgepole Crinoidal A	09 55A	13	100/10-03-012-29W1/00	758.0-761.5
Lodgepole Crinoidal B	09 55B	13	100/11-15-012-29W1/00	716.0-720.0 md
Lodgepole Crinoidal C	09 55C	13	100/15-10-012-29W1/00	715.0-729.0
Lodgepole A	09 59A	14	100/16-16-12-29W1/03	741.5-742.5; 752.5-753.5
Lodgepole B	09 59B	14	100/04-36-011-29W1/00	741.5-745
Bakken-Torquay A	09 62A	15	100/12-15-012-29W1/02	786.5-791.5
Bakken-Torquay B	09 62B	15	100/16-03-012-29W1/02	809.0-811.0
Bakken-Torquay C	09 62C	15	100/14-35-011-29W1/00	817-818.5
Bakken-Torquay D	09 62D	15	102/04-36-011-29W1/02	828.5-835
SOURIS HARTNEY FIELD				
Lodgepole Virden A	10 53A	30	100/04-16-006-22W1/00	653.2-671.8
REGENT FIELD				
Lodgepole WL A	13 52A	29	100/16-02004-22W1/00	761.5-780.0
Lodgepole WL B	13 52B	29	100/15-21-004-22W1/00	758.6-777.8
Lodgepole Virden A	13 53A	30	100/06-07-004-21W1/00	766.9-781.8
Lodgepole Virden B	13 53B	30	100/14-13-004-22W1/00	759.0-780.0
Lodgepole Virden D	13 53D	30	100/12-31-004-21W1/00	733.0-738.4
Lodgepole Virden E	13 53E	30	100/02-07-005-21W1/00	713.5-715
MOUNTAINSIDE FIELD POOL				
Lodgepole WL A	14 52A	29	103/11-16-002-21W1/00	1078.0-1451.4
BIRDTAIL FIELD				
Bakken-Torquay A	15 62A	8	100/09-30-016-27W1/00	535.5-538
Bakken-Torquay D	15 62D	8	100/04-14-016-28W1/00	449.72-459.1

POOL	CODE	FIGURE #	REFERENCE WELL	
			UWI	TVD INTERVAL (meters KB)
MANSON FIELD				
Melita-Reston-Amaranth-Lodgepole A	17 22A	7 & 9	100.01-34-012-27W1.00	556-557
Melita-Reston-Amaranth-Lodgepole B	17 22B	7 & 9	100.04-27-012-27W1.00	565-566
Melita-Reston-Amaranth-Lodgepole C	17 22C	7 & 9	100.16-19-012-26W1.00	548-551
Melita-Reston-Amaranth-Lodgepole D	17 22D	7 & 9	100.07-01-013-27W1.00	537-538.8
Melita-Reston-Amaranth-Lodgepole E	17 22E	7 & 9	100.03-31-012-26W1.00	538.9-540.9
Melita-Reston-Amaranth-Lodgepole F	17 22F	7 & 9	100.04-19-012-26W1.00	560.0-562.4
Lodgepole A	17 59A	14	100/15-22-012-28W1/00	629.8-645.5
Bakken-Torquay A	17 62A	8, 15	100/01-34-012-28W1/00	700.41-707.44
Bakken-Torquay B	17 62B	8, 15	100/14-09-013-28W1/00	672-674
Bakken-Torquay G	17 62G	8	100/04-06-014-28W1/00	
Bakken-Torquay H	17 62H	8	100/11-04-014-28W1/00	625.7-629.2; 630.9-633.2
Bakken-Torquay J	17 62J	8, 15	100.01-34-12-27W1.00	644-645
Bakken-Torquay K	17 62K	8, 15	100.08-36-013-28W1.00	606-608
Bakken-Torquay L	17 62L	8, 15	100.08-02-013-27W1.00	650.8-654
Bakken-Torquay M	17 62M	15	100.15-17-012-27W1.00	669.5-670; 671-672.8
OTHER AREAS				
Melita A	99 19A	7	100/14-15-016-29W1/00	432.3-446.0
Melita B	99 19B	7	100/06-17-016-29W1/00	438-441
Lower Amaranth-Lodgepole	99 40A	10	100/03-33-008-24W1/00	570.0-584.0
Mission Canyon 1 A	99 44A	28	100/08-31-002-23W1/00	812.0-843.0
Mission Canyon 1 D	99 44D	23	100/16-02-003-26W1/00	879.0-922.0
Mission Canyon 1 E	99 44E	23	100/16-06-006-28W1/00	905.0-908.0
Mission Canyon 1 G	99 44G	23	100/02-16-006-26W1/00	855.0-1229.0 MD
Mission Canyon 1 H	99 44H	23	100/03-13-006-27W1/00	786.5-790.0
Mission Canyon 1 J	99 44J	23	100/11-36-005-29W1/00	923.0-927.5
Mission Canyon 1 K	99 44K	10, 23	100/09-02-007-27W1/00	777.0-779.5
Mission Canyon 1 L	99 44L	10, 23	100/06-03-007-27W1/00	789.7-794.0
Mission Canyon 1 M	99 44M	23, 28	100/05-35-002-24W1/00	842.0-845.0
Mission Canyon 1 O	99 44O	28	100/14-36-001-23W1/00	944-948
Mission Canyon 1 R	99 44R	23	100/12-21-005-28W1/00	905-908; 899-902

POOL	CODE	FIGURE #	REFERENCE WELL	
			UWI	TVD INTERVAL (meters KB)
Mission Canyon 1 S	99 44S	23	102/01-22-006-28W1-00	864.79
Lodgepole WL C	99 52C	29	100/13-19-004-22W1/00	762.0-775.7
Lodgepole Virden C	99 53C	30	100/05-32-002-23W1/00	827.0-828.5
Lodgepole I	99 59I	31	100/11-35-002-24W1/00	960.0-1955 MD, 1063-1308 MD
Lodgepole J	99 59J	31	100/10-18-005-22W1/00	757.0-759; 764.0-765.5
Lodgepole S	99 59S	31	100.04-31-006-21W1.00	623.3-627
Bakken-Torquay L	99 62L	26	100/05-08-004-29W1/00	1209.5-1214.5
Bakken-Torquay M	99 62M	26	100/10-08-006-28W1/00	1064.0-1066.0
Bakken- Torquay U	99 62U	15	100/01-11-010-27W1/00	779.7-789.4
Bakken- Torquay DD	99 62DD	8	100/15-32-017-28W1/00	511-513
Bakken- Torquay JJ	99 62JJ	15	100/08-10-012-28W1/02	740.62-759.93
Bakken- Torquay KK	99 62KK	15	100/09-23-011-28W1/00	821.11-824.91
Bakken- Torquay LL	99 62LL	8	100/04-25-015-27W1/00	527.7
Bakken-Torquay MM	99 62MM	8	100/14-21-014-28W1/00	594.5-595.5
Bakken-Torquay NN	99 62NN	8	100/03-26-018-29W1/00	478.5-486
Bakken-Torquay SS	99 62SS	8	100.04-21-016-29W1.00	540.77-561.45
Bakken-Torquay TT	99 62TT	8	100-01-18-015-28W1/02	579.24-854.16

MANITOBA'S DESIGNATED POOL PLATS

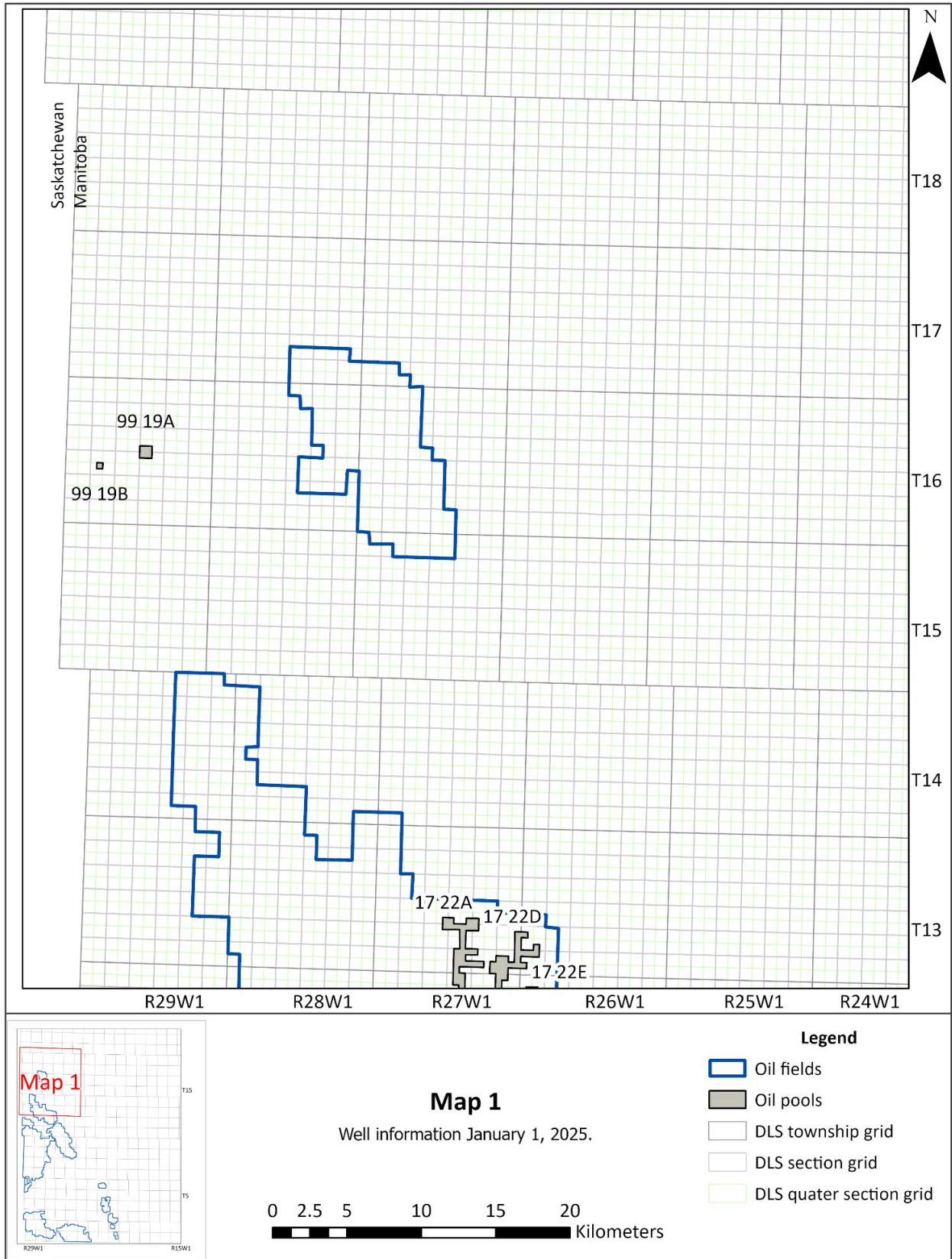


Figure 7: Map 1; Melita Formation pools (19) and Melita-Reston-Amaranth-Lodgepole undifferentiated pools (22).

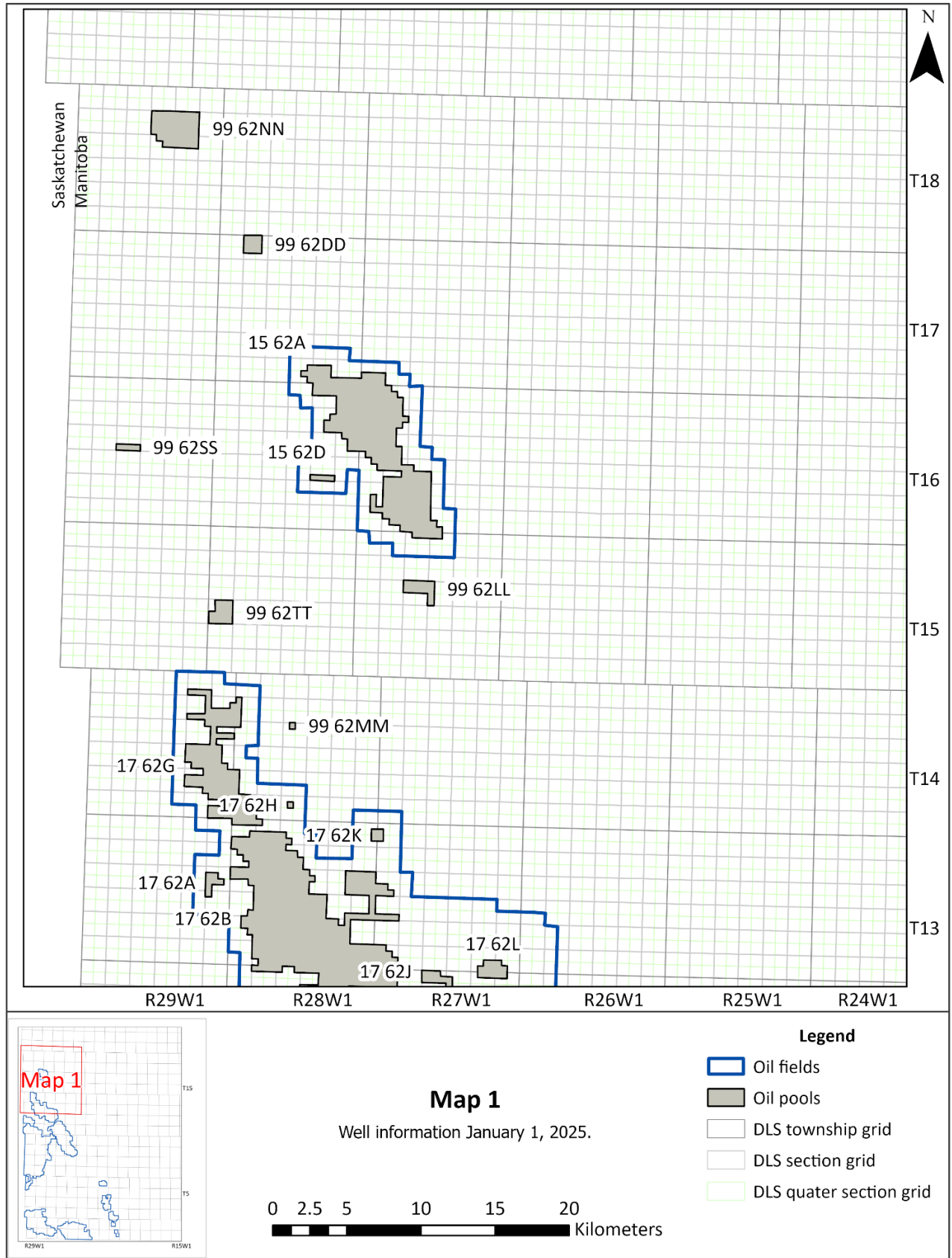


Figure 8: Map 1; Bakken-Torquay formation pools (62).

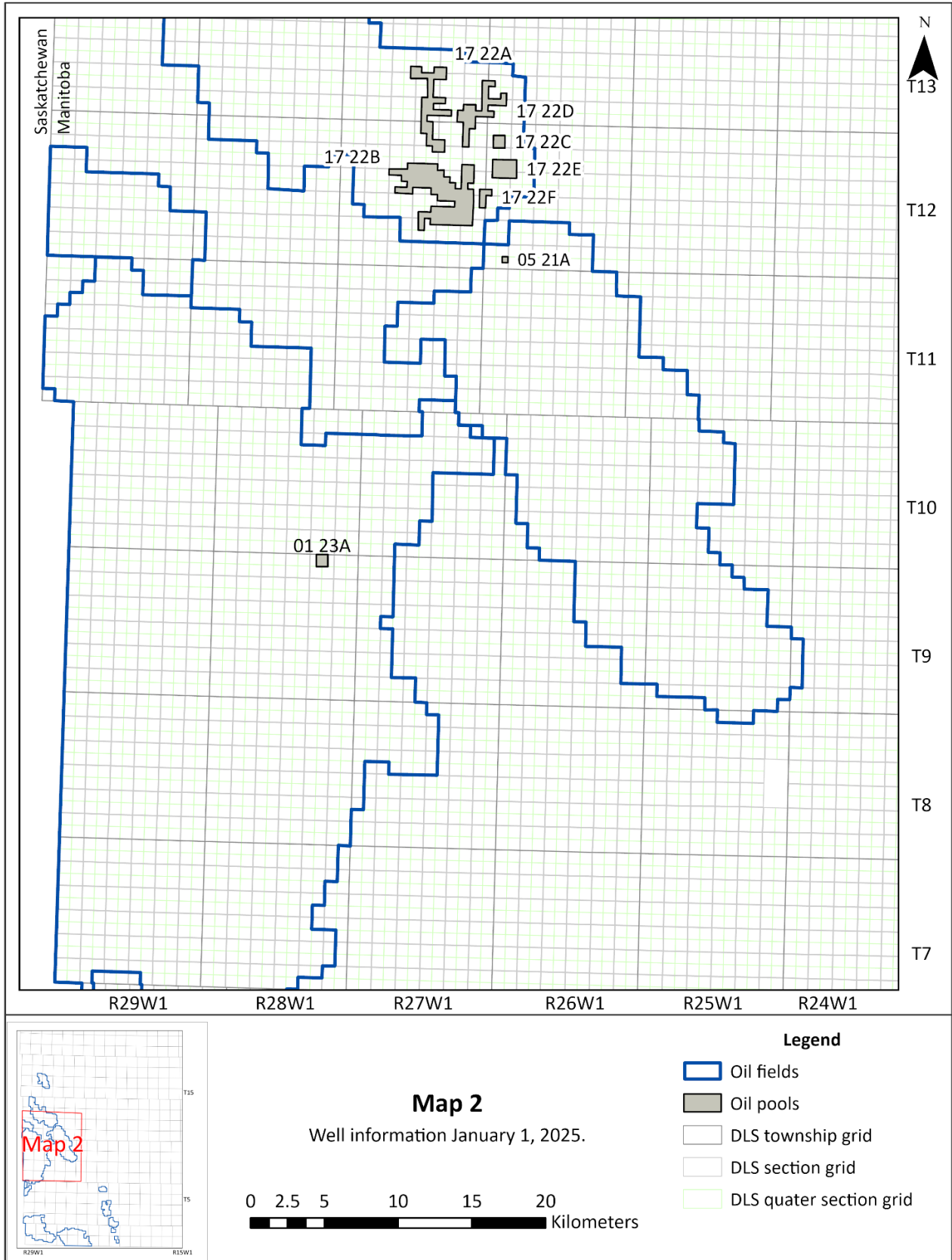


Figure 9: Map 2; Reston Formation (21), Melita-Reston-Amaranth-Lodgepole formation pools (22) and Upper Amaranth Member pools (23).

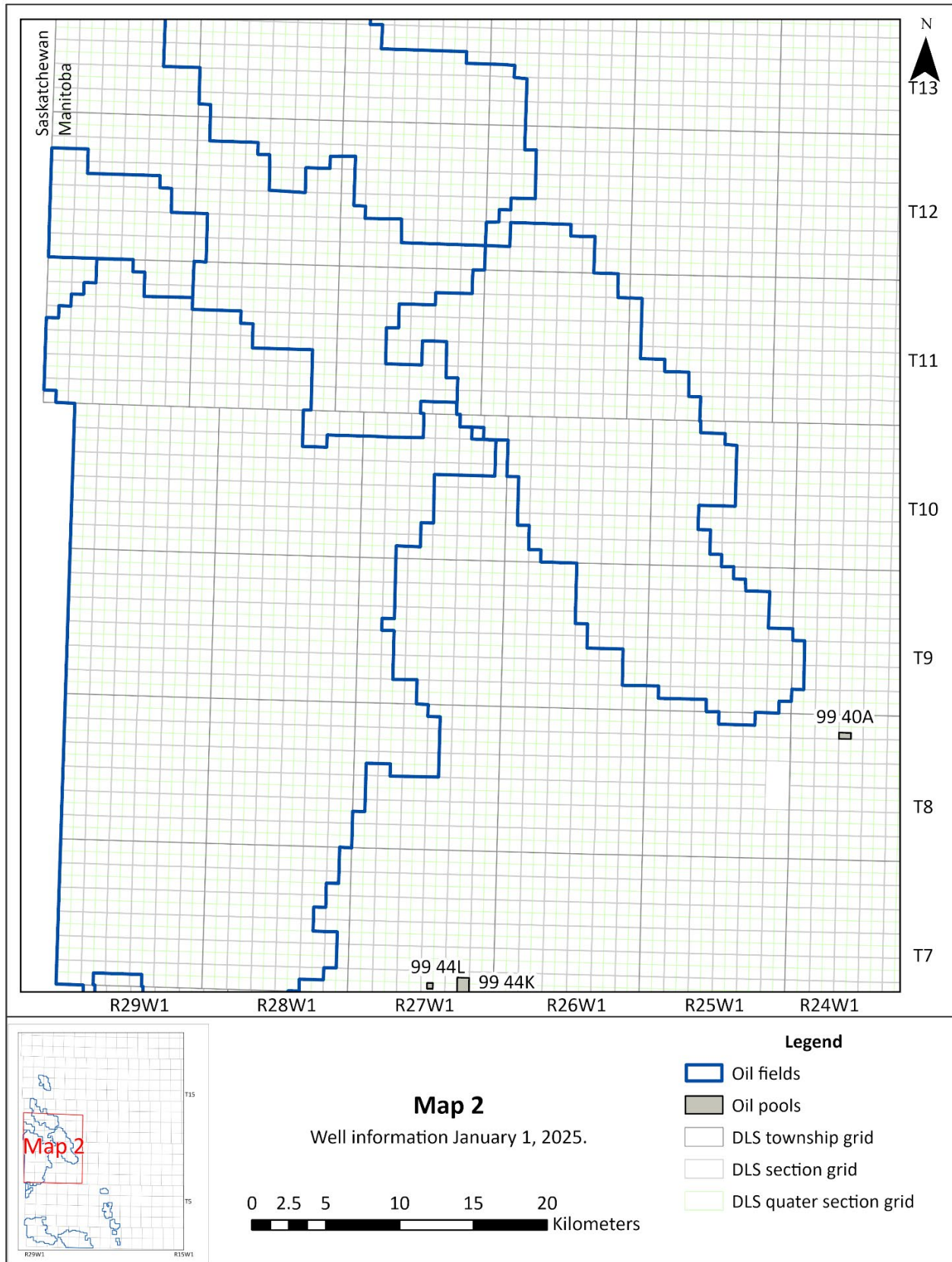


Figure 10: Map 2; Amaranth Formation Lower Amaranth Member - Lodgepole Formation undifferentiated pools (40) and Mission Canyon Formation MC-1 Member pools (44).

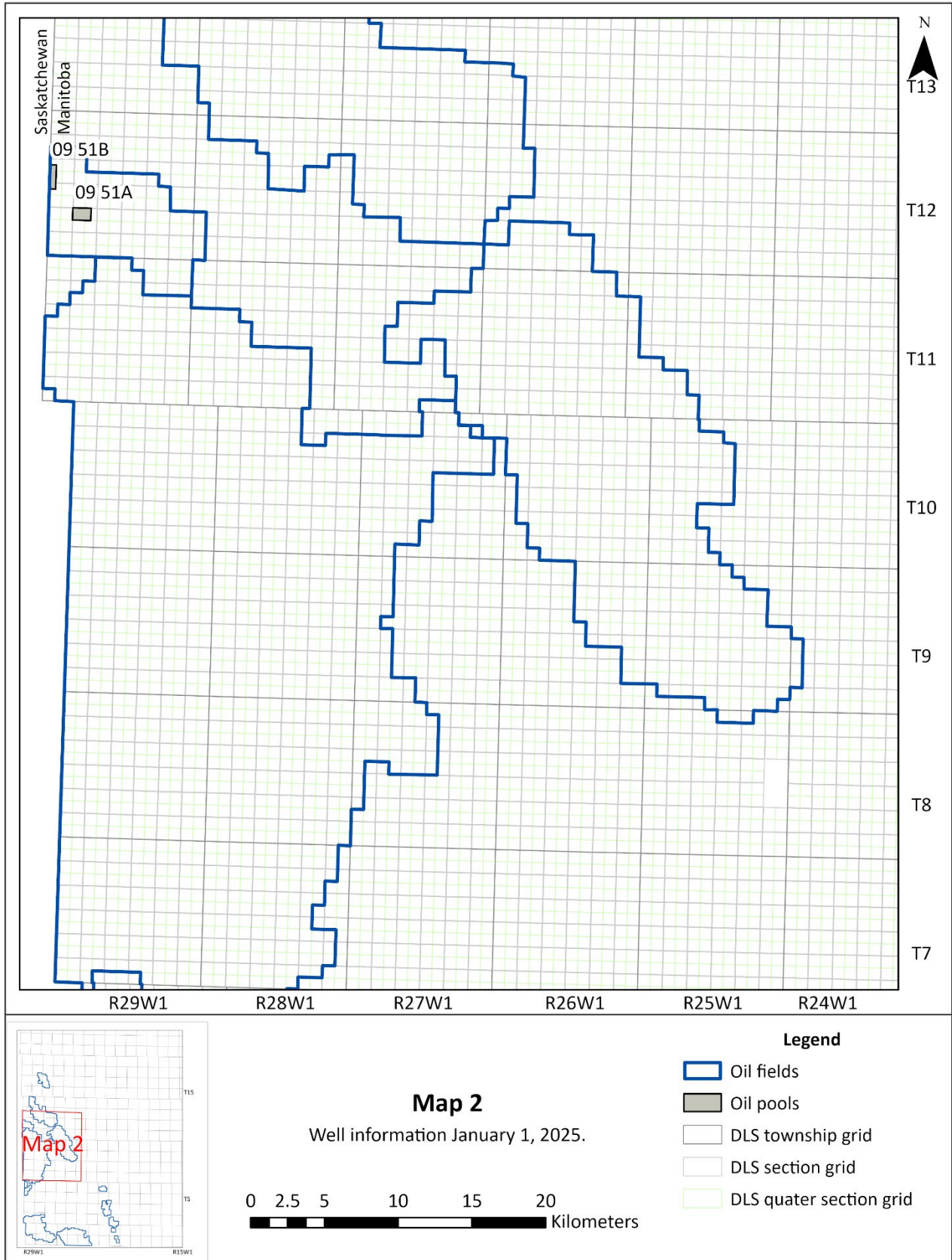


Figure 11: Map 2; Lodgepole Dolomite pools (51).

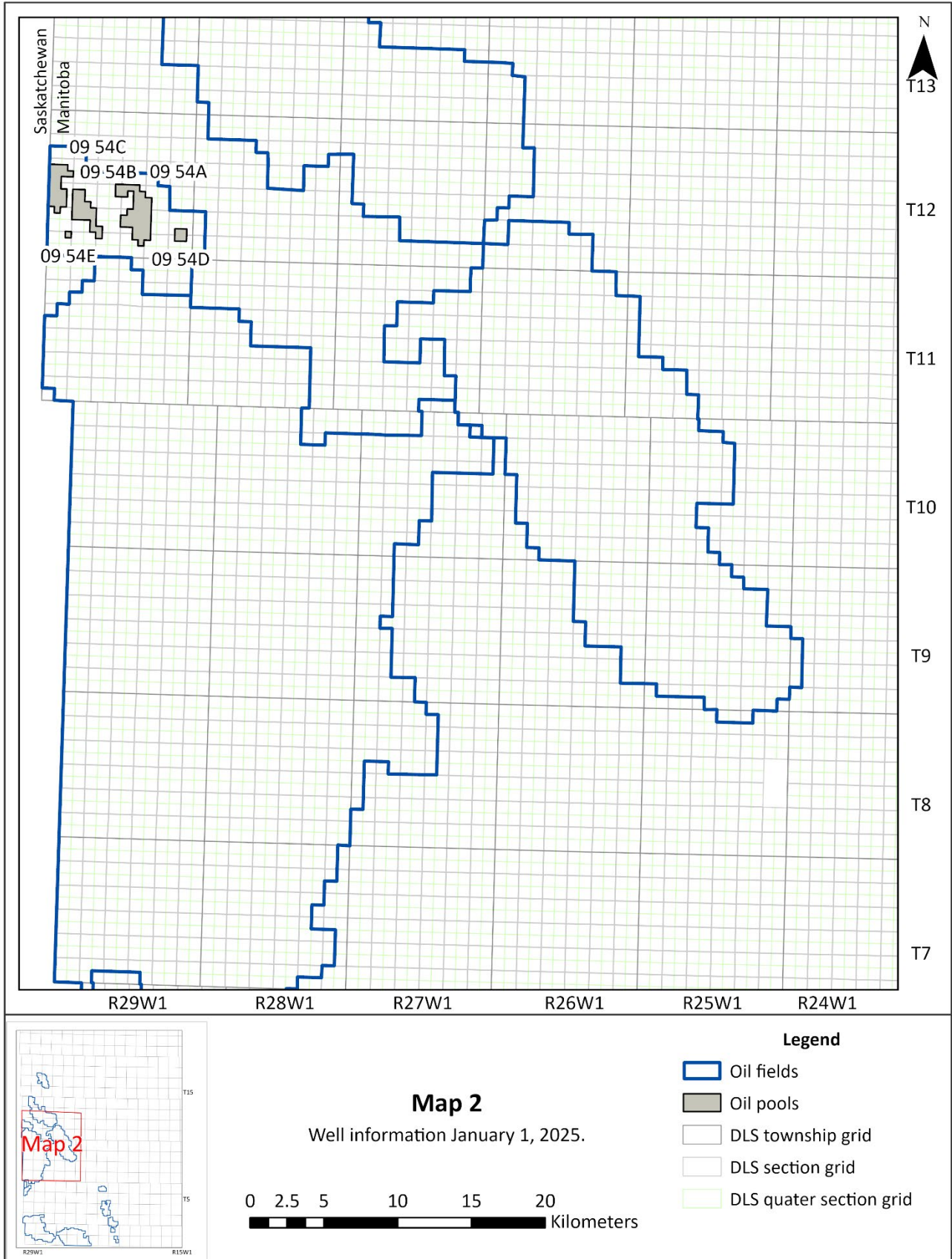


Figure 12: Map 2; Lodgepole Formation Daly Member pools (54).

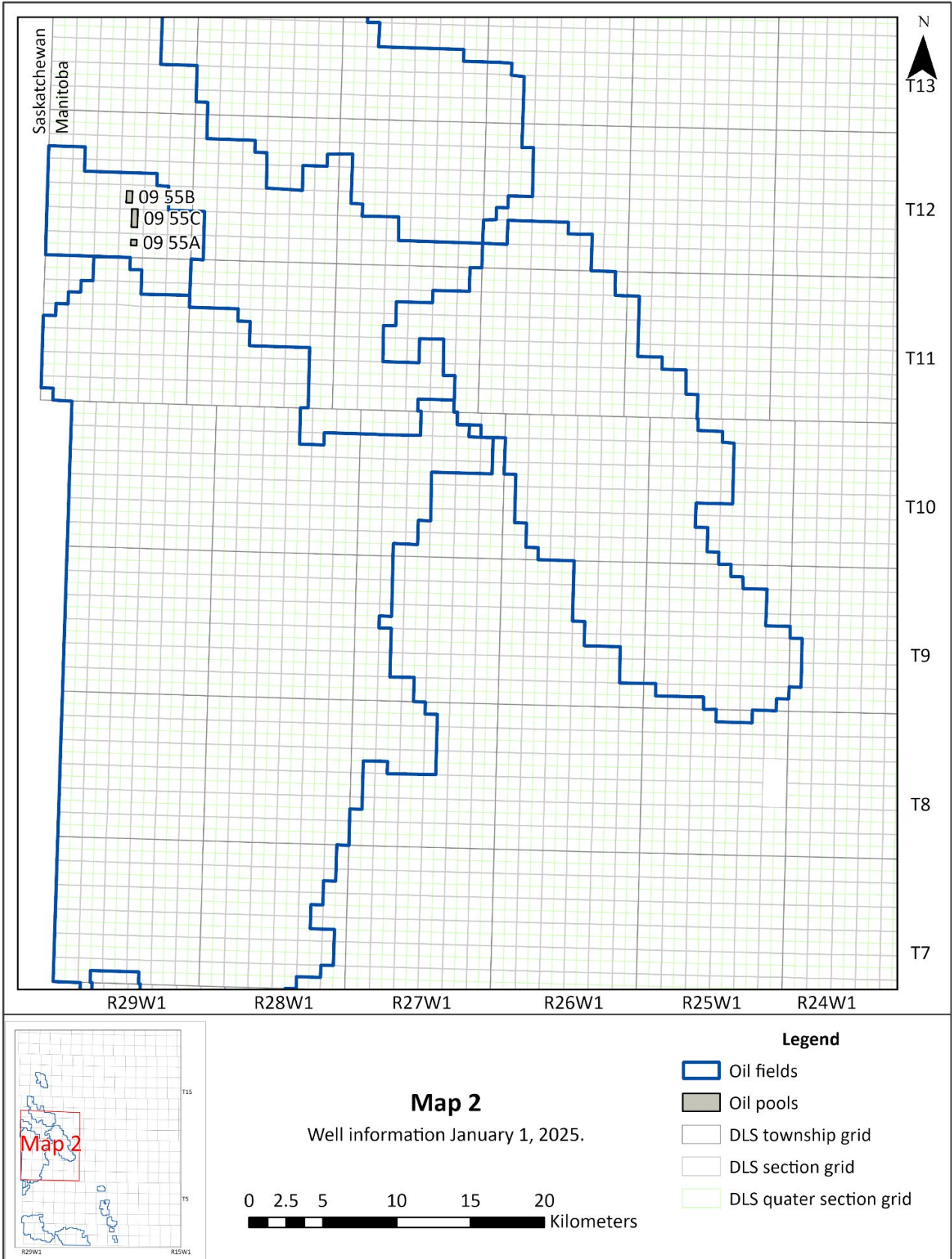


Figure 13: Map 2; Lodgepole Formation Cruikshank Crinoidal Member pools (55).

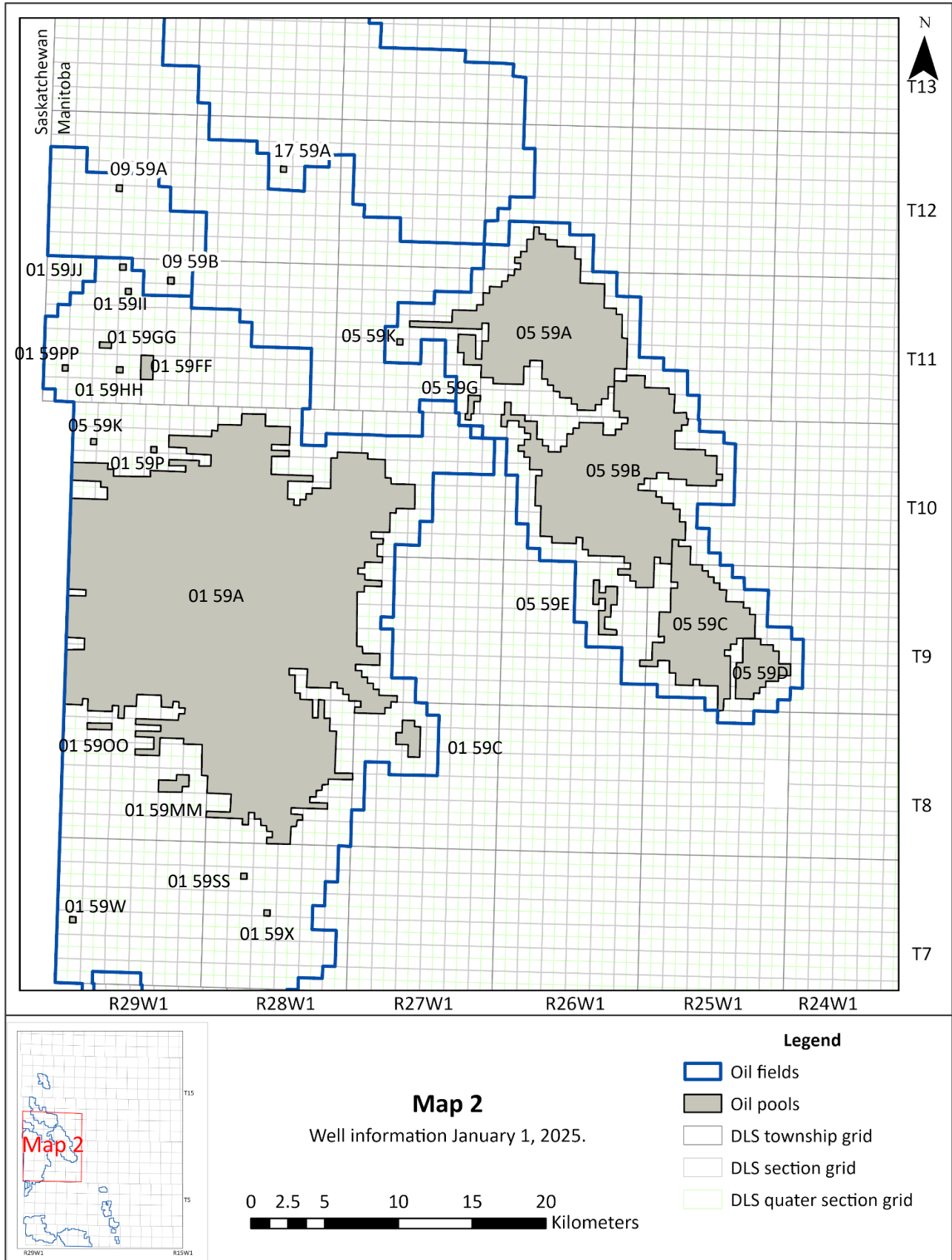


Figure 14: Map 2; Lodgepole Formation undifferentiated pools (59).

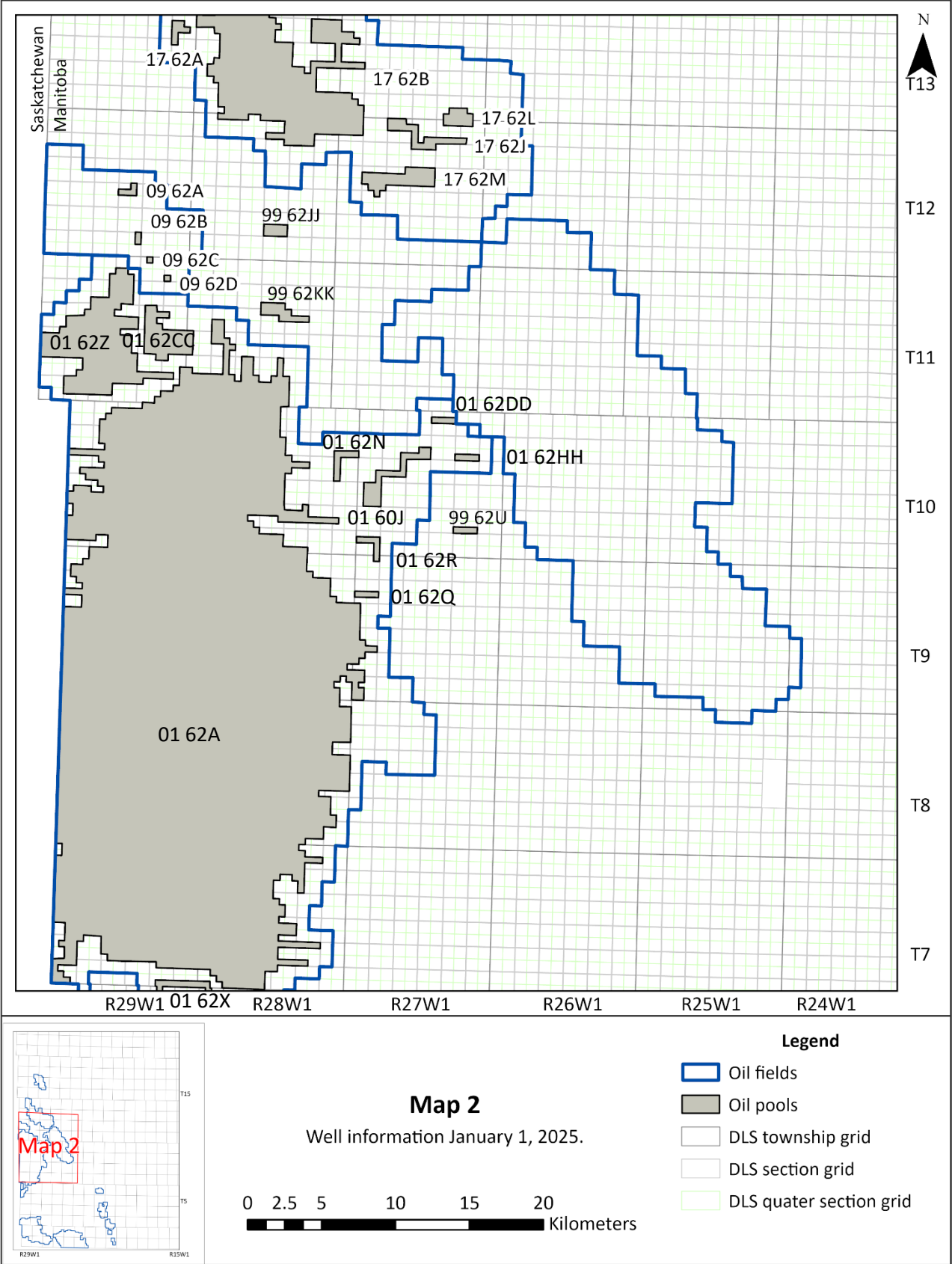
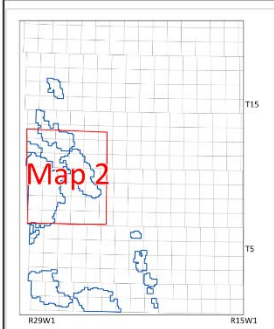
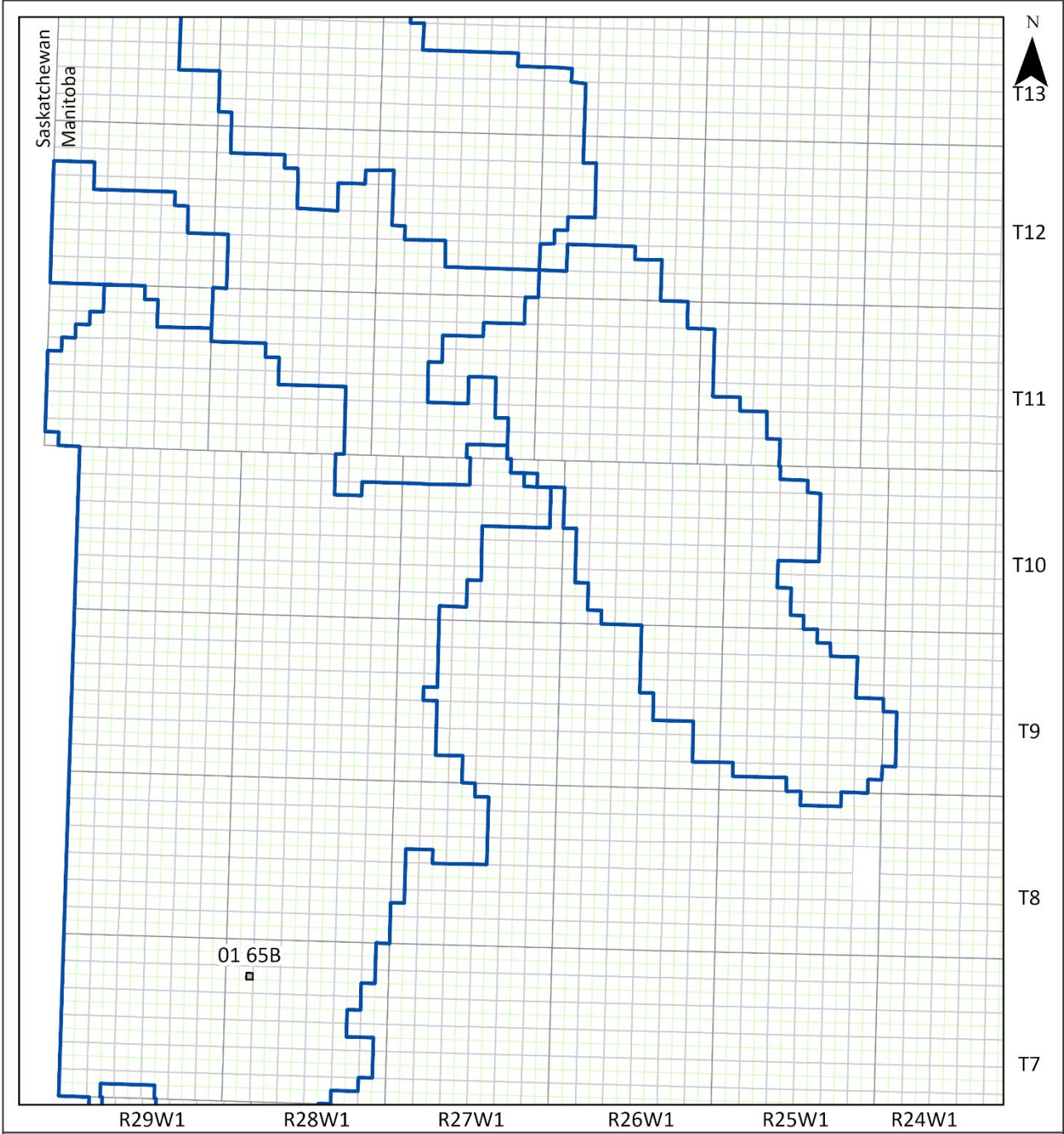


Figure 15: Map 2; Bakken-Torquay formation pools (60 & 62).



Map 2
Well information January 1, 2025.

0 2.5 5 10 15 20
Kilometers

Legend

- ▭ Oil fields
- Oil pools
- DLS township grid
- DLS section grid
- DLS quarter section grid

Figure 16: Map 2; Torquay Formation pools (65).

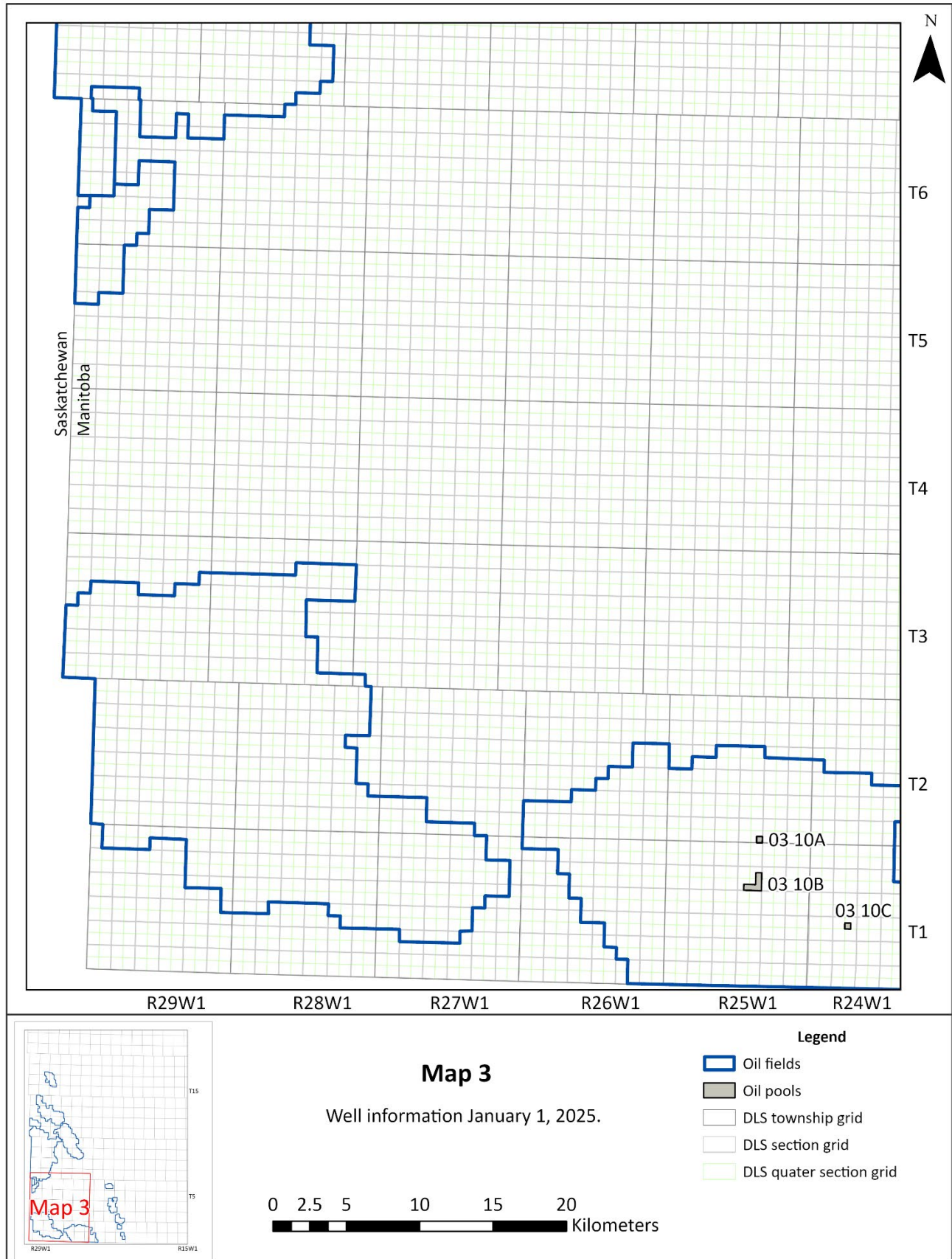


Figure 17: Map 3; Favel Formation pools (10).

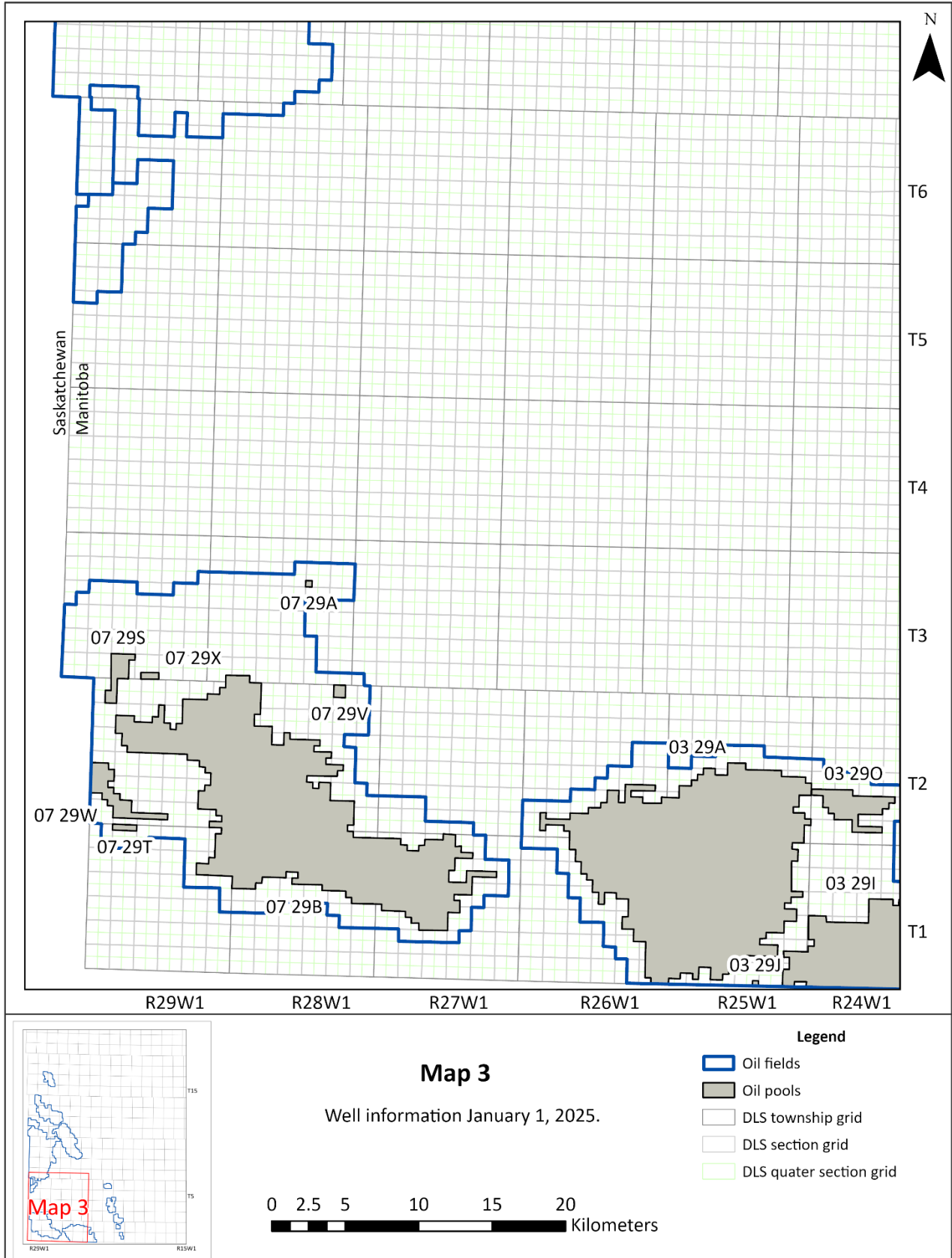


Figure 18: Map 3; Amaranth Formation Lower Amaranth Member pools (29).

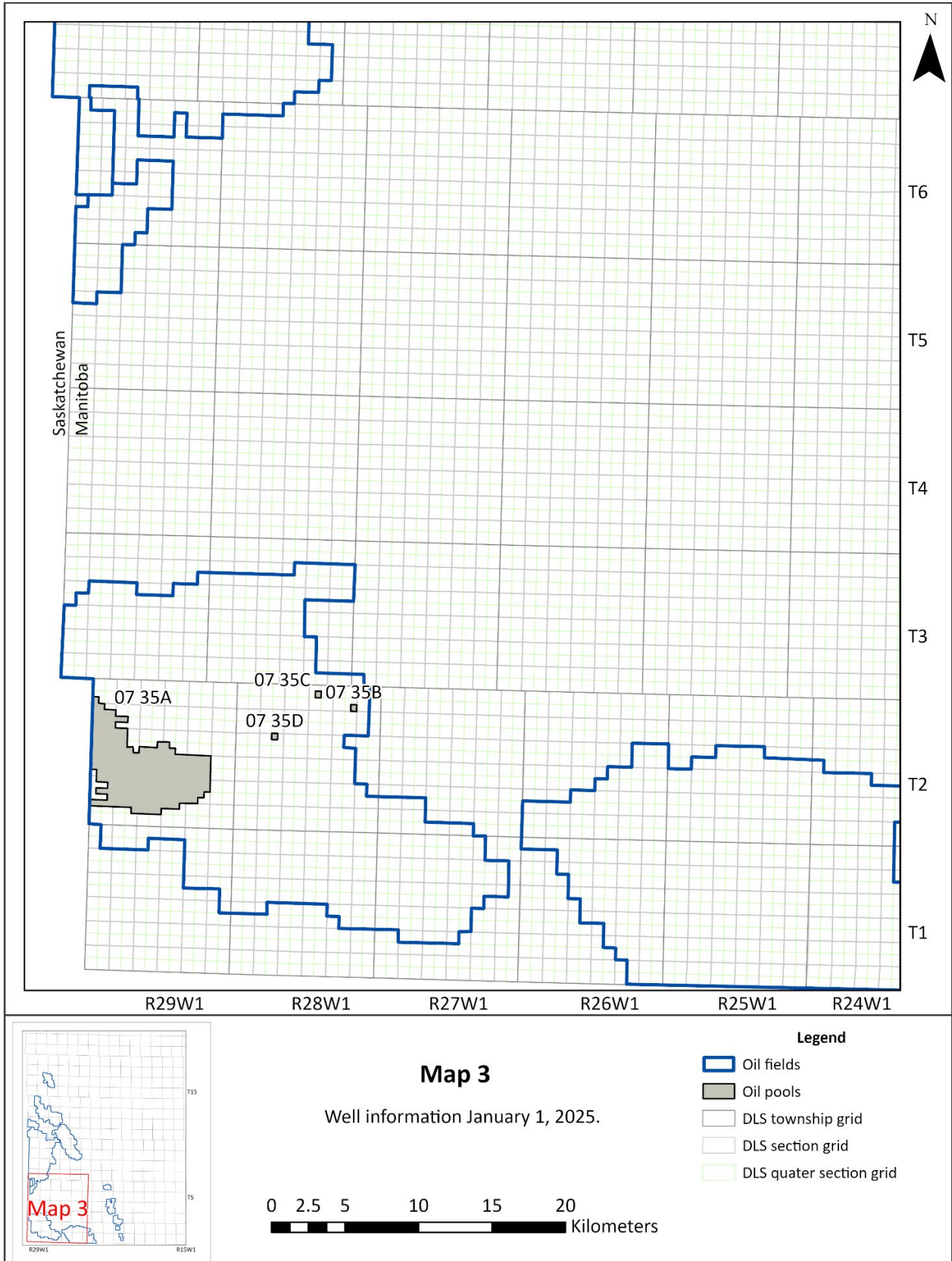


Figure 19: Map 3; Amaranth Formation Lower Amaranth Member - Mission Canyon MC-3b Member pools (35).

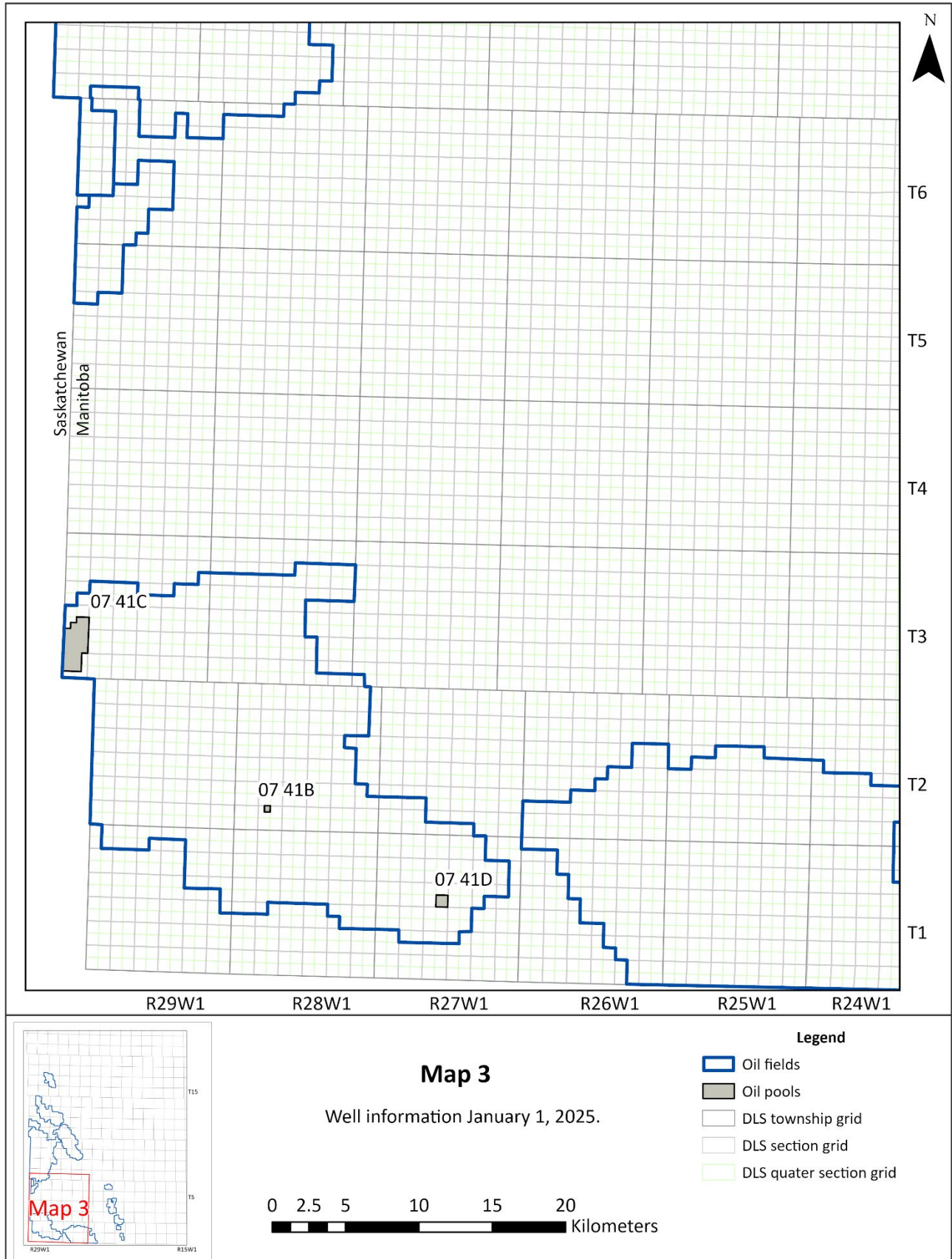


Figure 20: Map 3; Mission Canyon Formation, MC-3 Member pools (41).

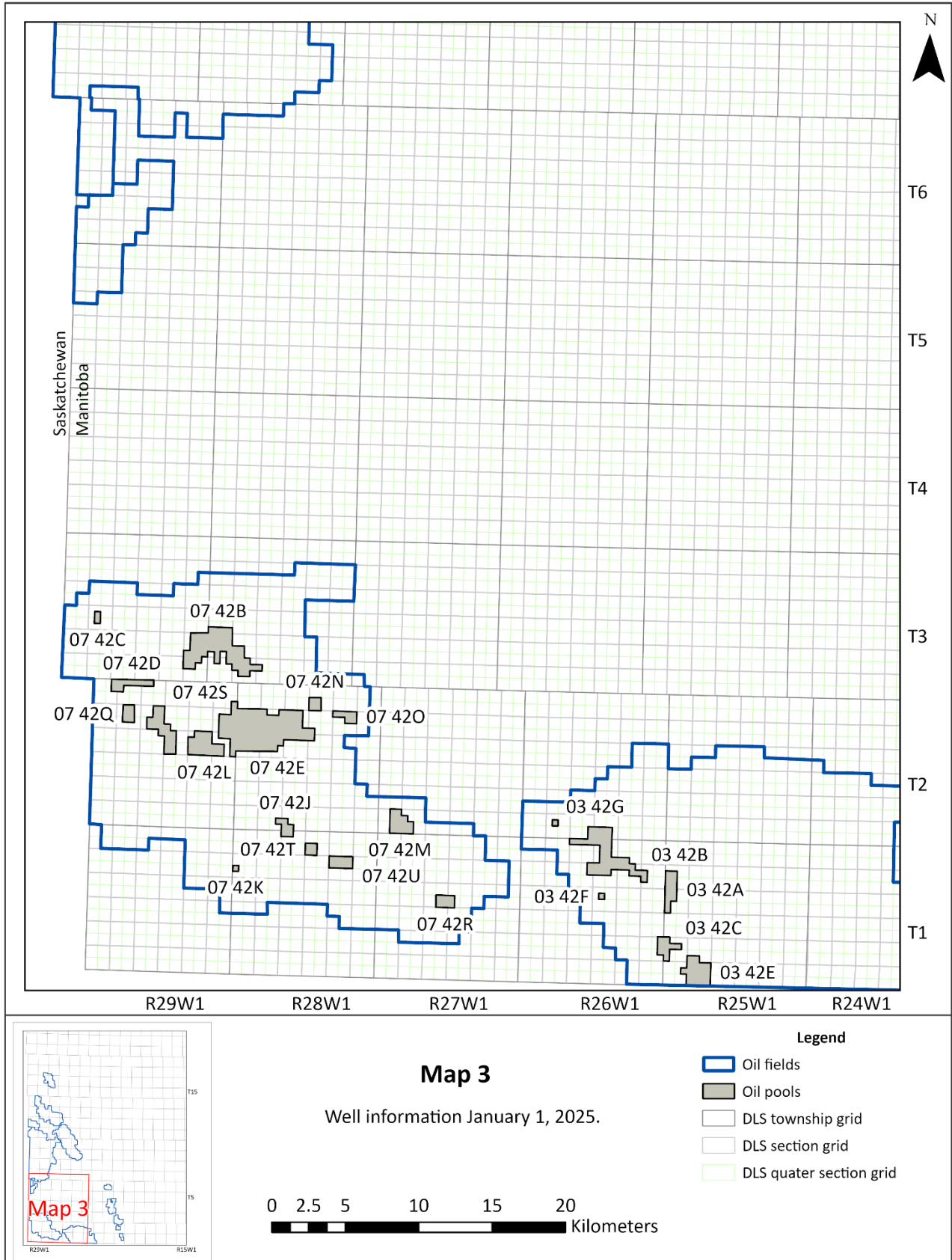


Figure 21: Map 3; Mission Canyon Formation MC-3b Member pools (42).

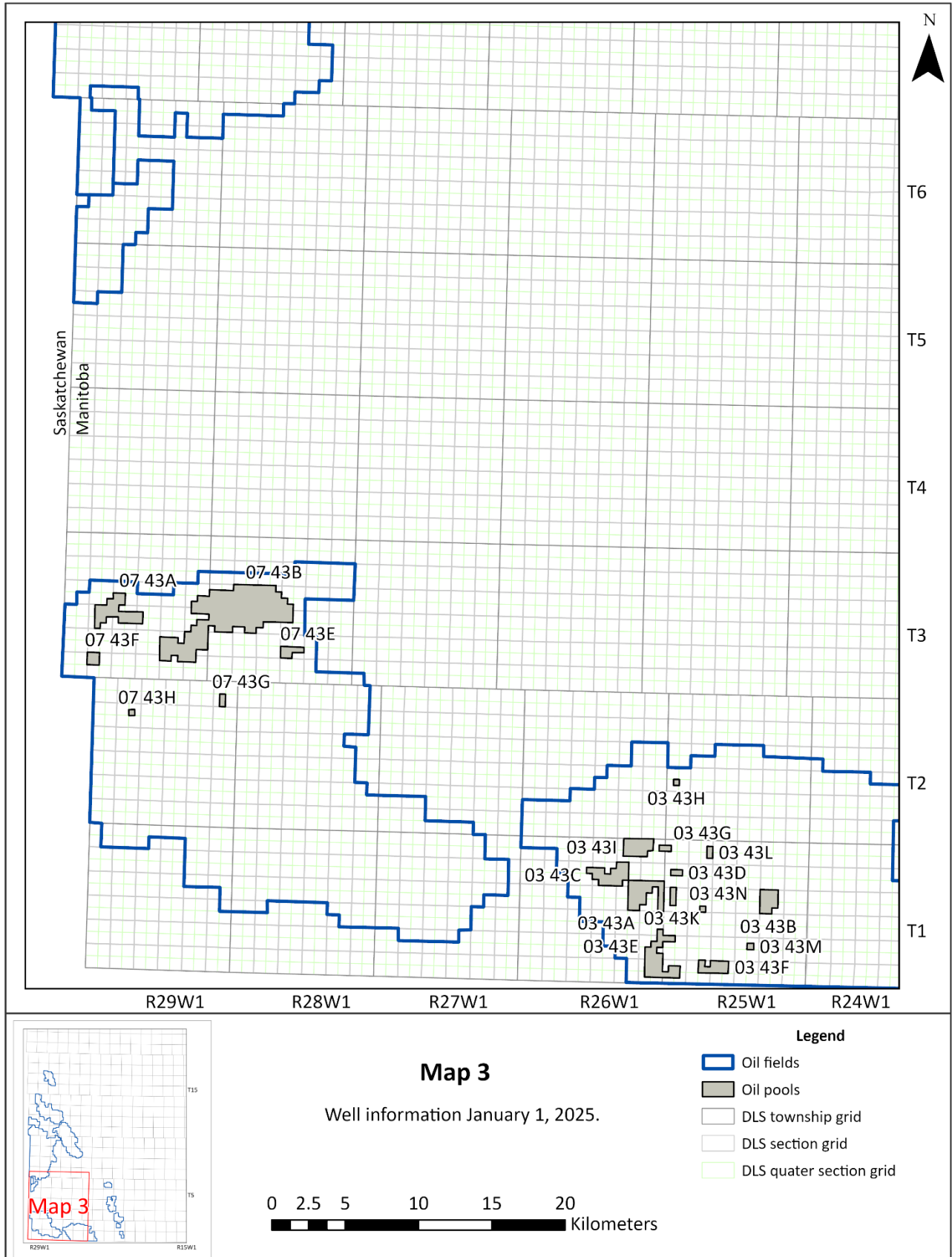


Figure 22: Map 3; Mission Canyon MC-3a Member pools (43).

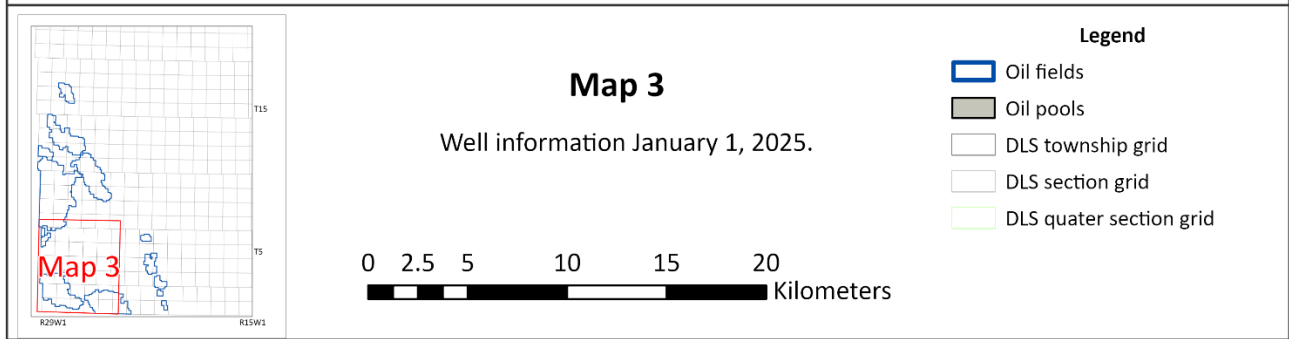
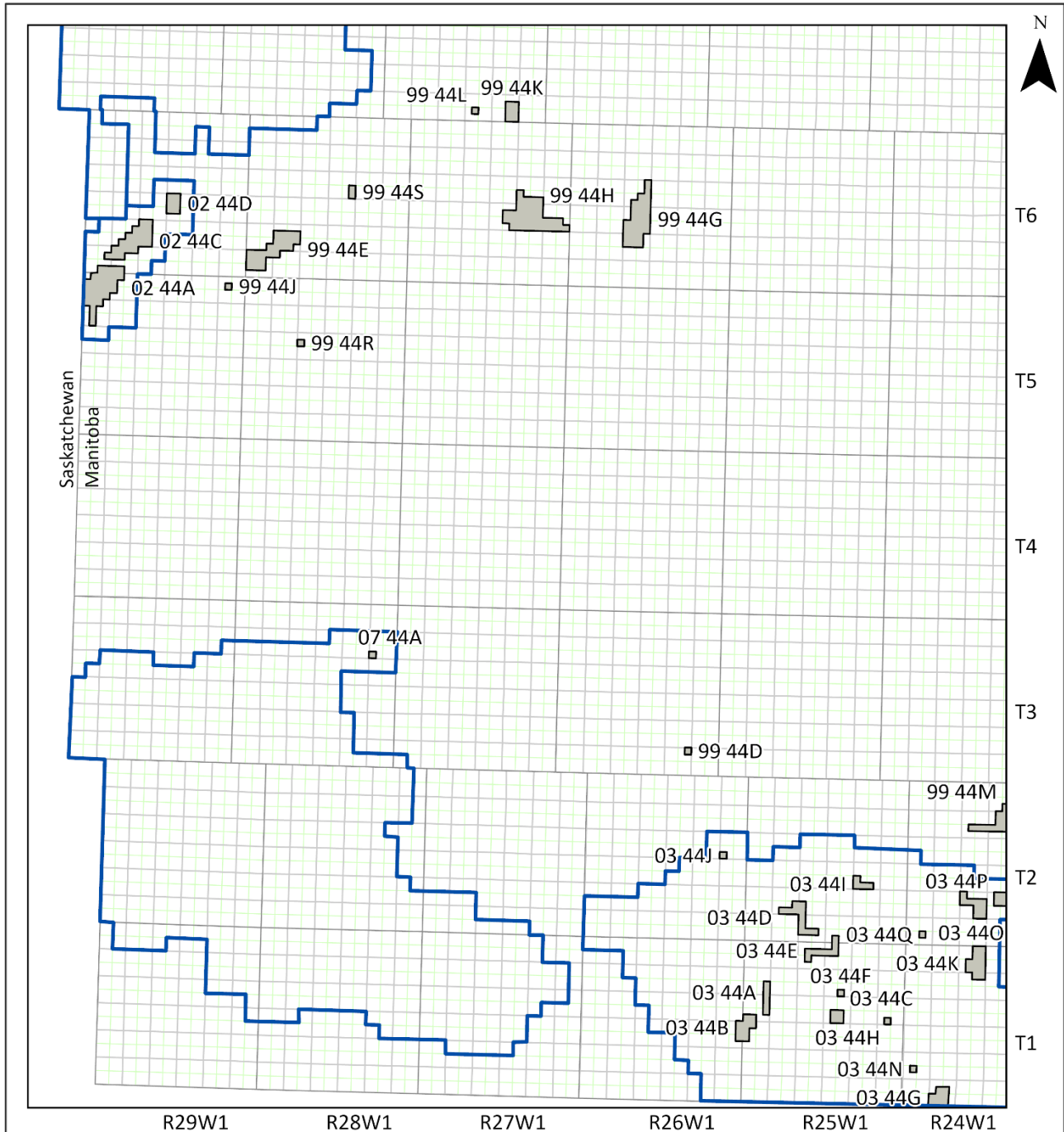


Figure 23: Map 3; Mission Canyon Formation MC-1 Member pools (44).

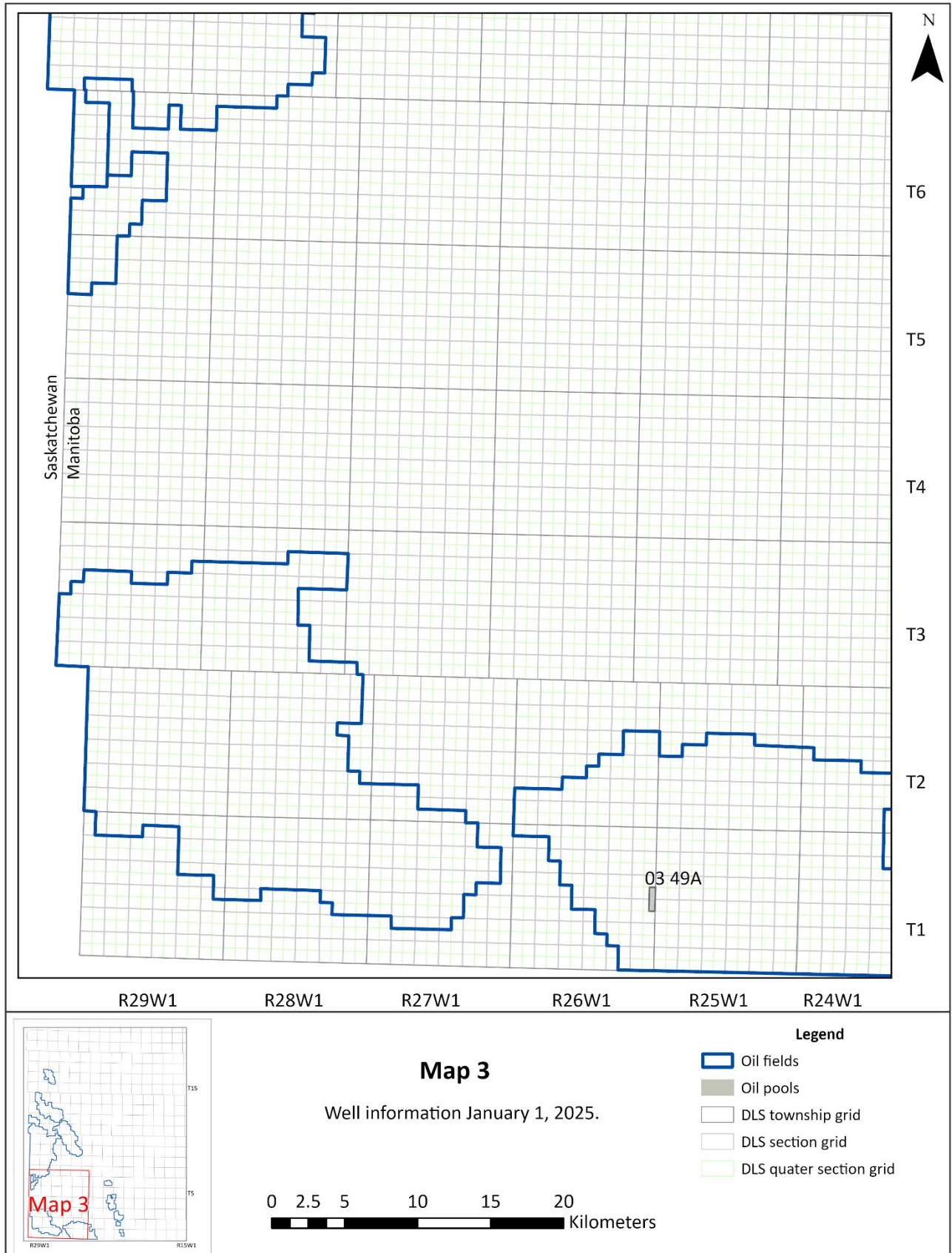


Figure 24: Map 3; Mission Canyon undifferentiated pools (49).

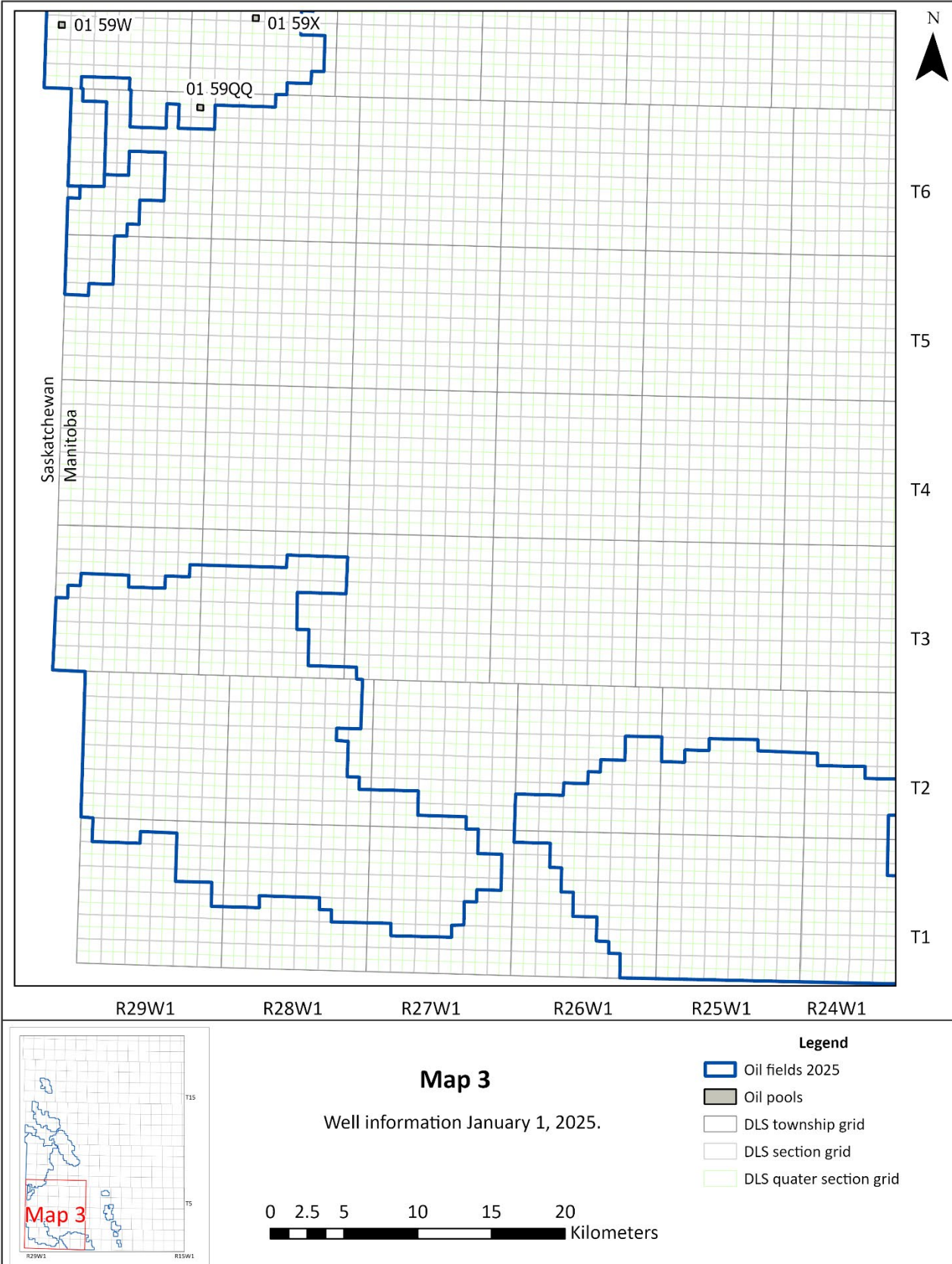


Figure 25: Map 3; Lodgpole formation pools (59).

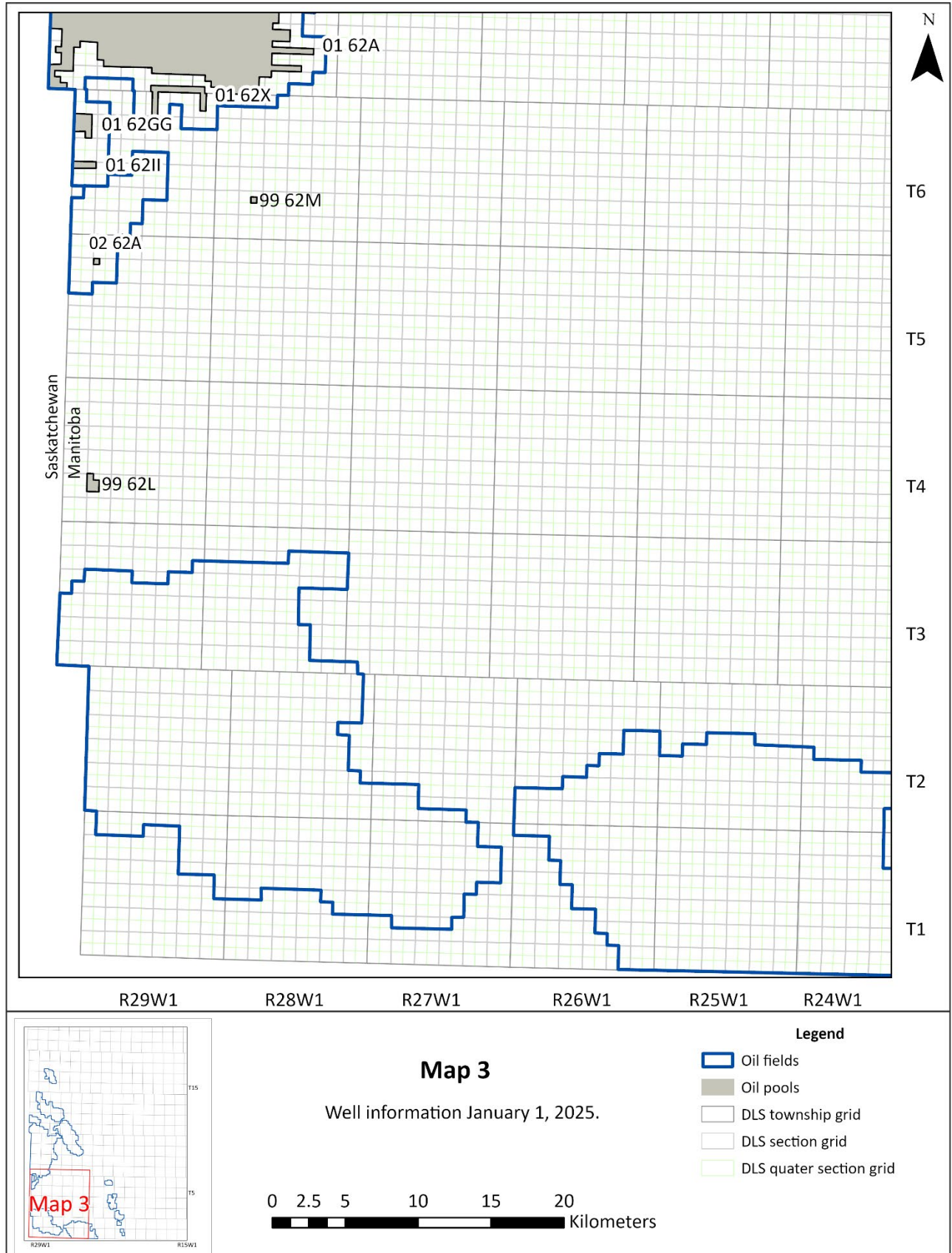


Figure 26: Map 3; Bakken-Torquay formation pools (62).

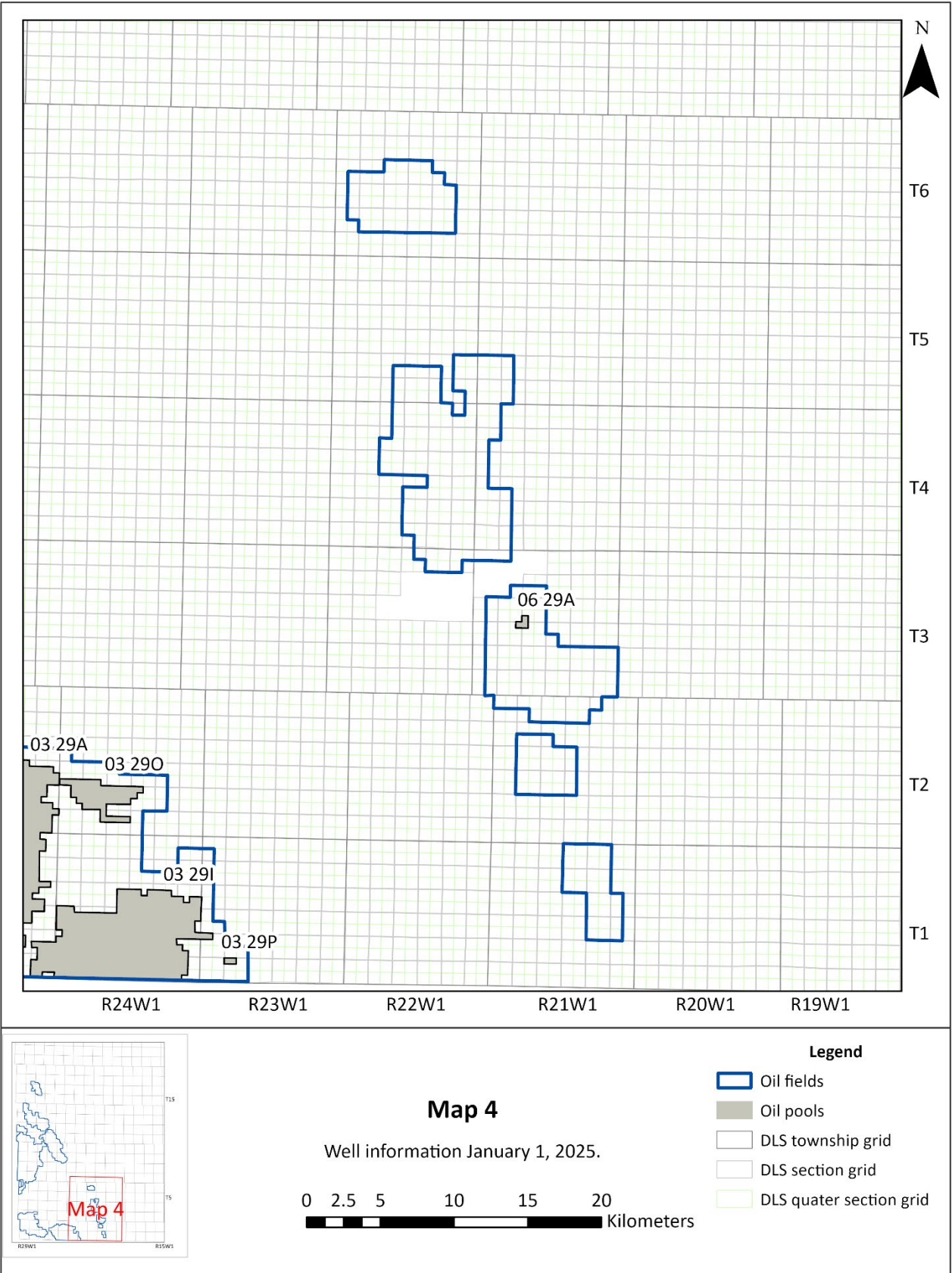


Figure 27: Map 4; Amaranth Formation Lower Amaranth Member pools (29).

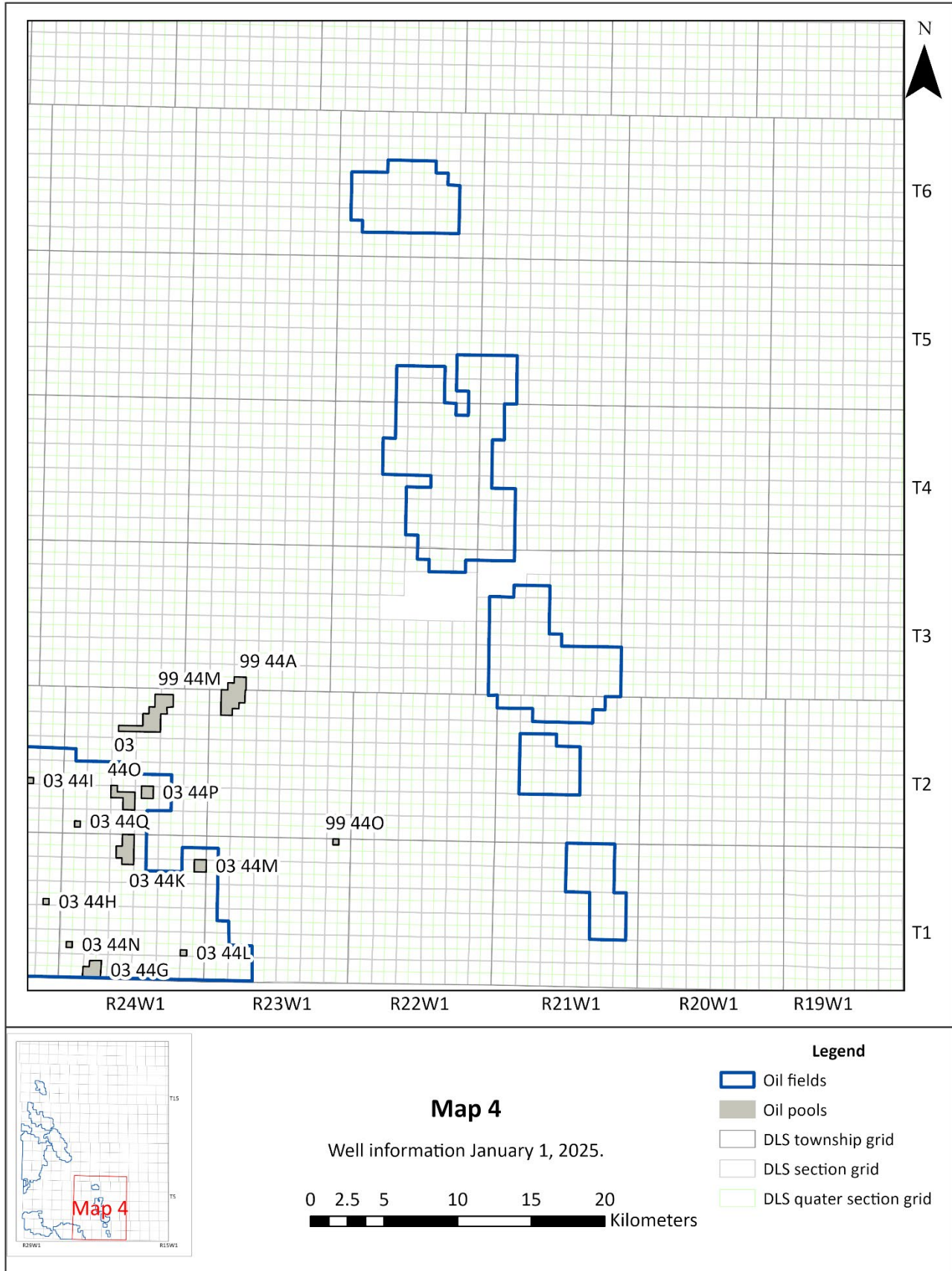


Figure 28: Map 4; Mission Canyon Formation MC-1 Member pools (44).

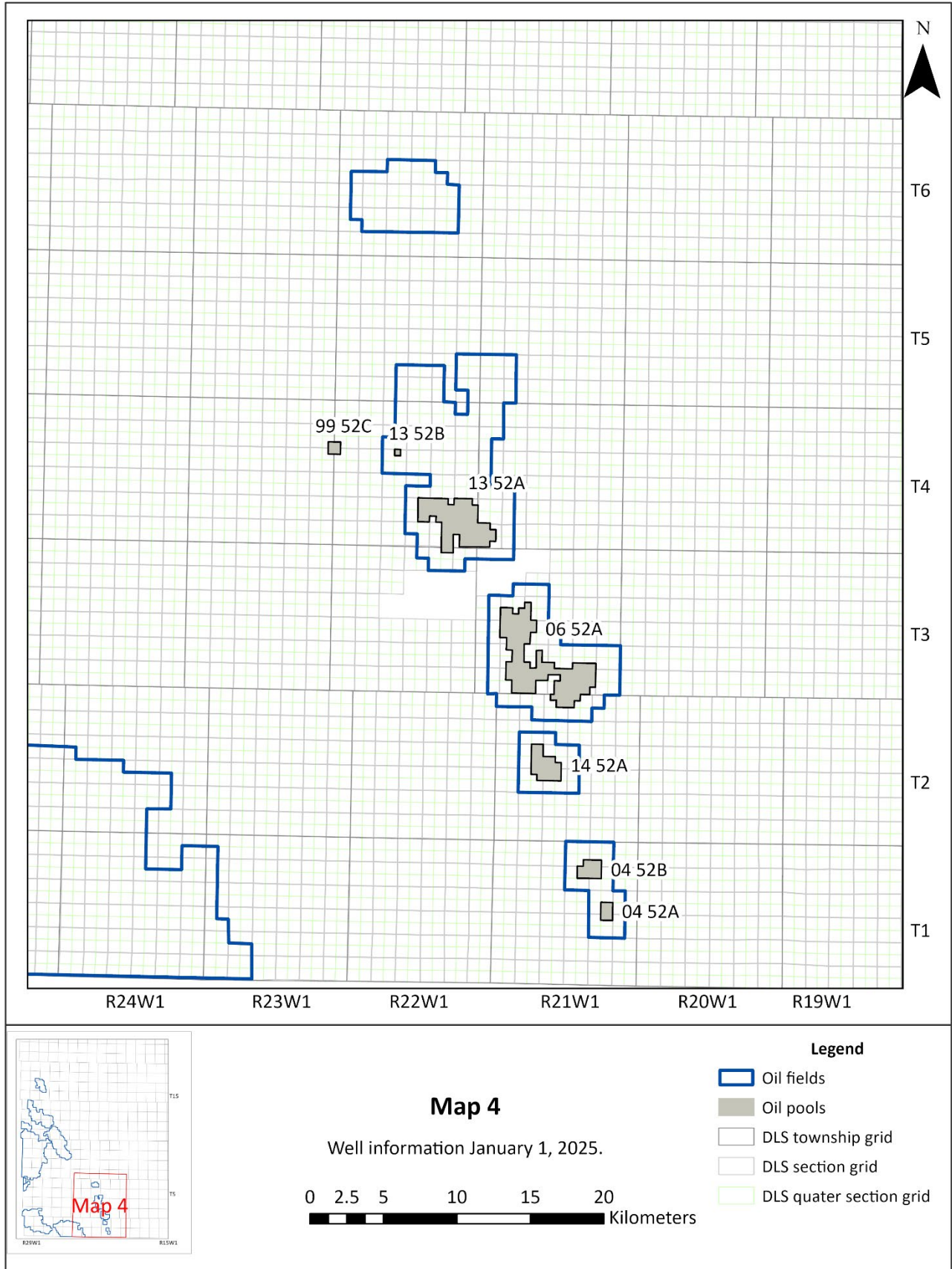


Figure 29: Map 4; Lodgepole Formation Whitewater Lake Member pools (52).

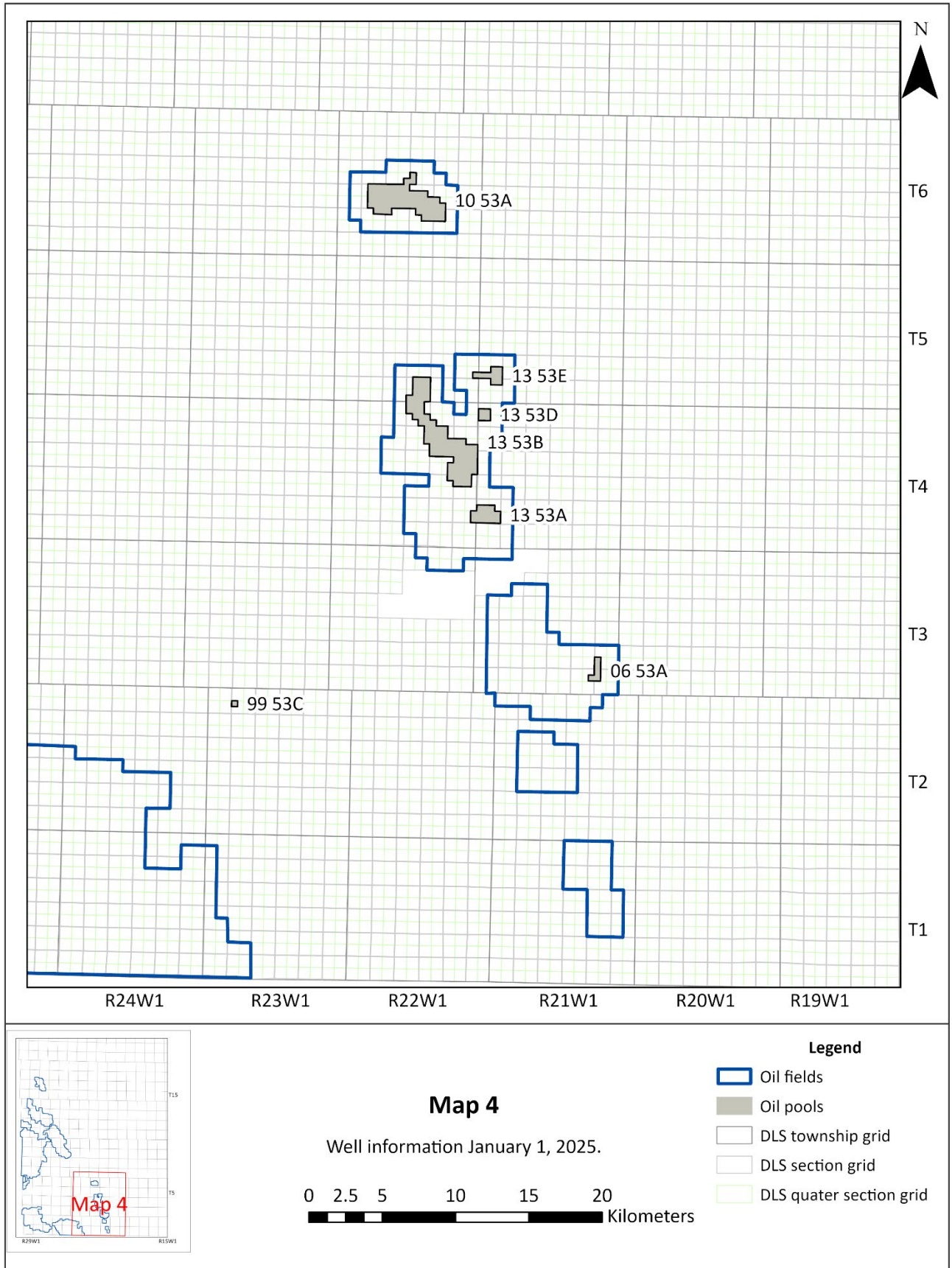


Figure 30: Map 4; Lodgepole Formation Viriden Member pools (53).

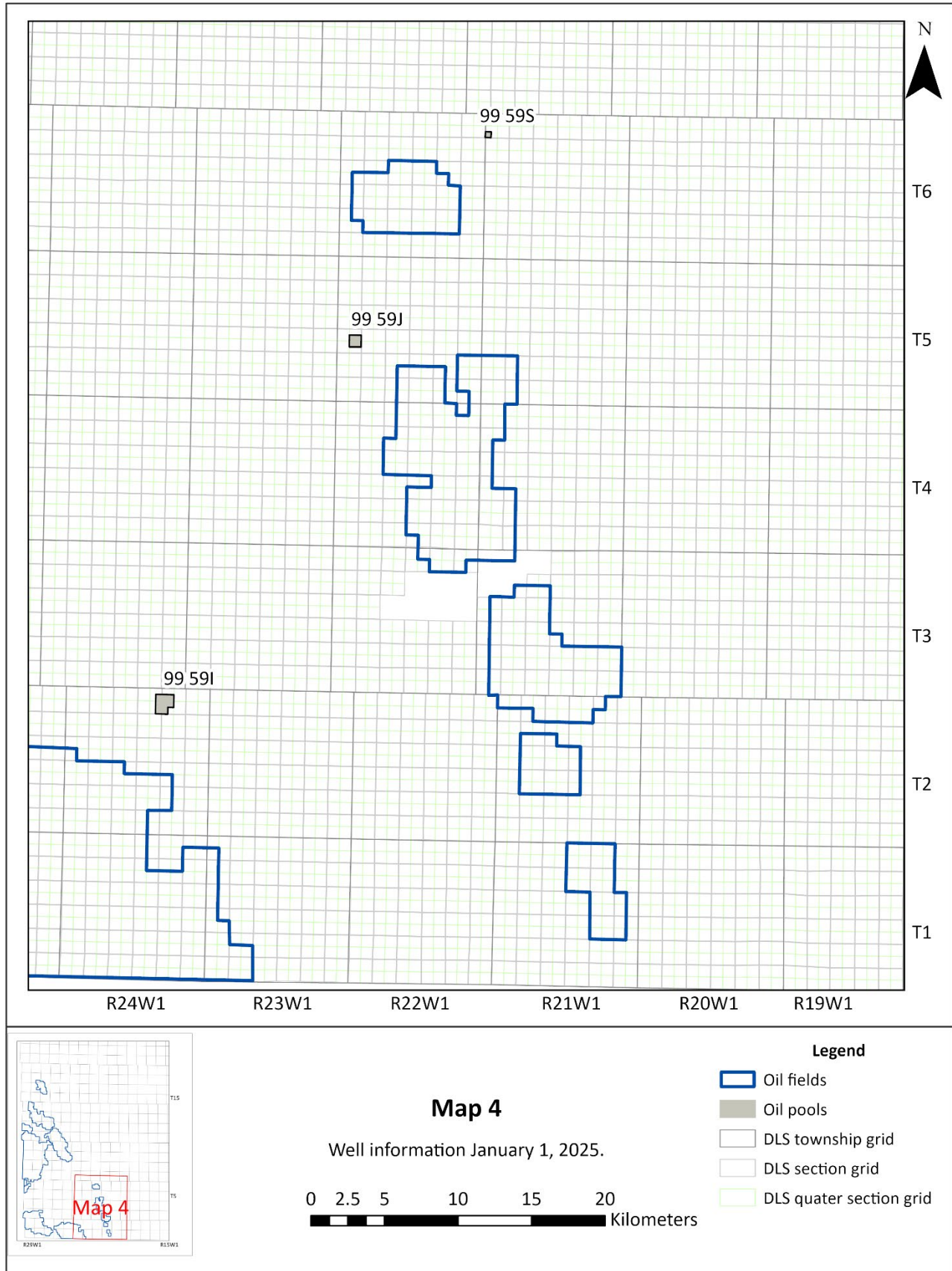


Figure 31: Map 4; Lodgepole Formation undifferentiated pools (59).

APPENDIX A - Grid and Scale

The grid used in all the field and pool maps within this report are in the Dominion Land Survey (DLS) system for western Canada and north is always to the top of the map. The Prairie Provinces are divided north and south into 5 areas separated by meridians. The first or Principal meridian is in Manitoba and the area to the west of it is referred as W1 or WPM in all Unique Well Identifiers (UWI). The area between meridians is divided into ranges (R) each 6 miles wide. These ranges are cross-divided by township lines which run east-west six miles apart, to form townships (T) six miles square. (Figure 1)

Each Township is divided into Sections (Sec) one mile square (640 acres per section) and there are 36 sections in a Township, 6 sections wide by 6 sections high. Each Section is numbered as shown in Figure 45.

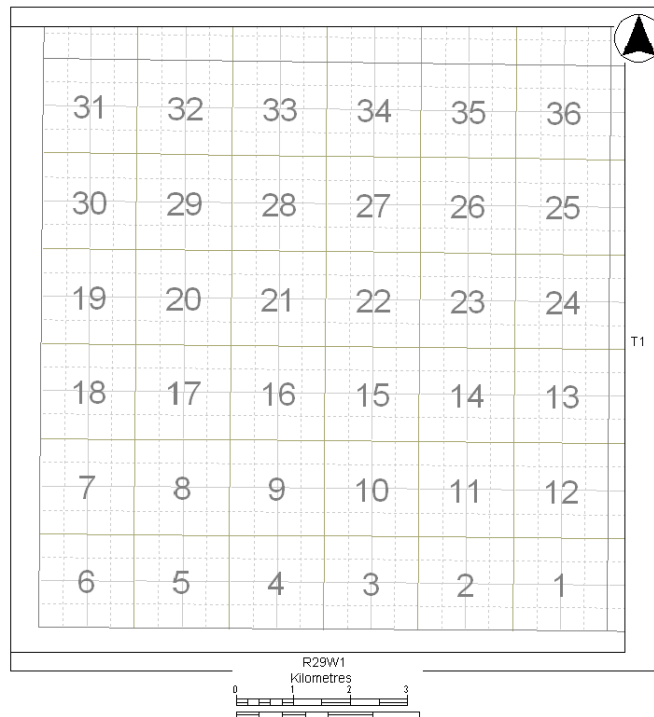


Figure 32: DLS system sections in a township.

Each Section is divided into 16 legal subdivisions (LSD), 4 LSD's wide by 4 LSD's high, each 402.36m² or 40 acres. Pool boundaries are adjusted by LSD. Each LSD is numbered as shown in section 1 of Figure 45. Each section can also be split into ¼ sections as shown in Figure 46. This is important to note as field boundaries are adjusted by ¼ section. Each ¼ section consists of 4 LSD's and a ¼ section is 804.72m² or 160 acres.

A map reference is given in the format of a legal survey system reference, LSD-Sec-Township-Range W1, i.e. 02-09-010-29W1. This is incorporated into the Unique Well Identifier (UWI) a code used to identify each oil well in Manitoba. A UWI's first three numbers indicate: 'Survey system code' 'Location' 'Exception code'/legal survey system/event sequence code i.e.100/16-09-010-09W1/00. The DLS system is always represented by a designated code of 01.

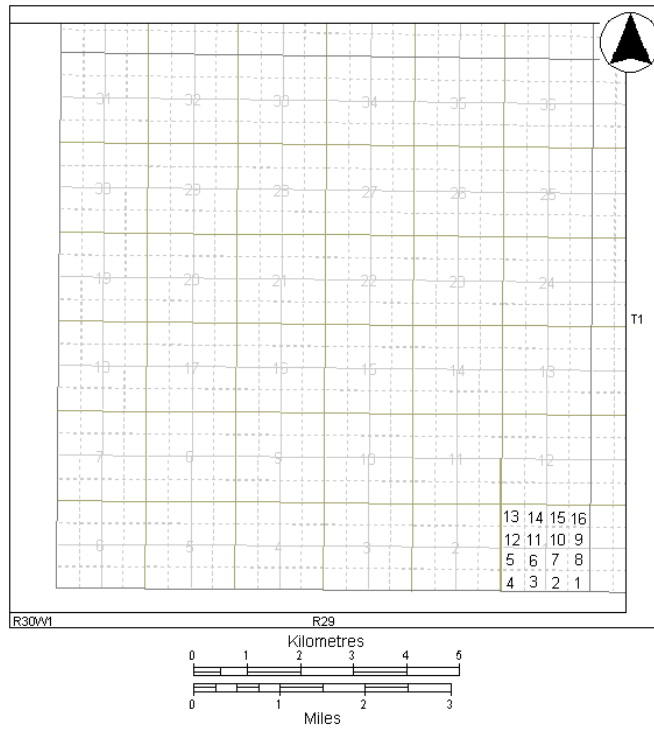


Figure 33: DLS system legal subdivisions in a section.

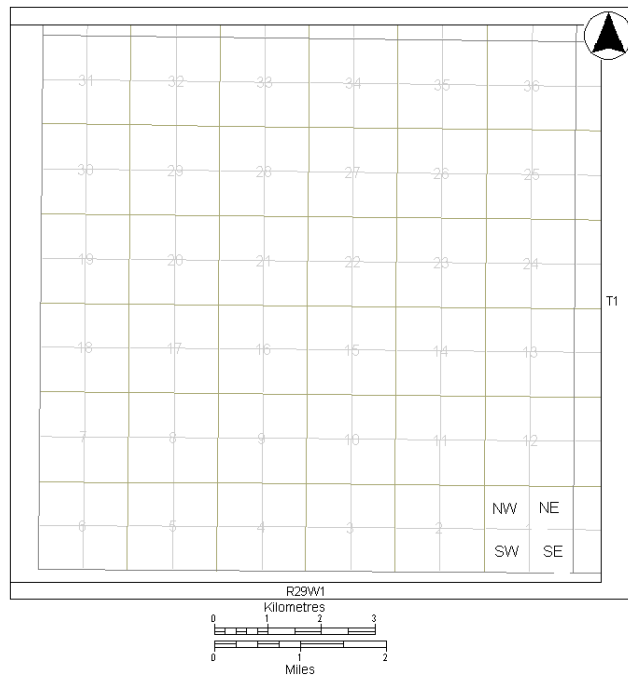


Figure 34: DLS system quarter section illustration.

APPENDIX B - Manitoba pool codes by Formation

CODE	FORMATION OR MEMBER	CODE	FORMATION OR MEMBER
10	Favel Formation	56	Lodgepole Formation, Scallion Member (was 55)
11	Ashville Formation, Newcastle Member	59	Lodgepole Formation, undifferentiated
15	Swan River Formation	60	Bakken Formation
19	Melita Formation	62	Bakken – Torquay formation
21	Reston Formation	65	Torquay Formation
22	Melita-Reston-Amaranth-Lodgepole, undifferentiated	71	Birdbear Formation
23	Upper Amaranth Formation	72	Duperow Formation
26	Triassic, undifferentiated	73	Souris River Formation
29	Lower Amaranth, undifferentiated	74	Dawson Bay Formation
35	Lower Amaranth – Mission Canyon 3b (MC-3b)	75	Prairie Evaporite Formation
39	Mississippian, undifferentiated	76	Winnipegosis Formation (formerly 75)
40	Lower Amaranth – Lodgepole undifferentiated	78	Devonian, undifferentiated (formerly 79)
41	Mission Canyon Formation, MC-3 Member, undiff.	79	Silurian, Interlake Group
42	Mission Canyon Formation, MC-3b Member	80	Stonewall Formation
43	Mission Canyon Formation, MC-3a Member	81	Stony Mountain Formation
44	Mission Canyon Formation, MC-1 Member	82	Red River Formation
49	Mission Canyon Formation, undifferentiated	85	Winnipeg Formation
51	Lodgepole Formation, Dolomitic	89	Ordovician, undifferentiated
52	Lodgepole Formation, Whitewater Lake Member	90	Cambrian, Deadwood Formation
53	Lodgepole Formation, Virden Member	99	Precambrian
54	Lodgepole Formation, Daly Member	100	Lower Paleozoic, Undifferentiated
55	Lodgepole Formation, Crinoidal Cruickshank facies		

January 1, 2025

