



**Manitoba's Designated
Oil Fields & Pools
2011**

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**Manitoba Innovation Energy & Mines
Manitoba Petroleum Branch**

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FOREWORD

This annual report was compiled by P. Fulton-Regula, M.Sc., P.Geo. for the Director of the Petroleum Branch 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 1st 2011. It states the names and numerical codes used in the Manitoba Oil and Gas Information System 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 Petroleum Branch.

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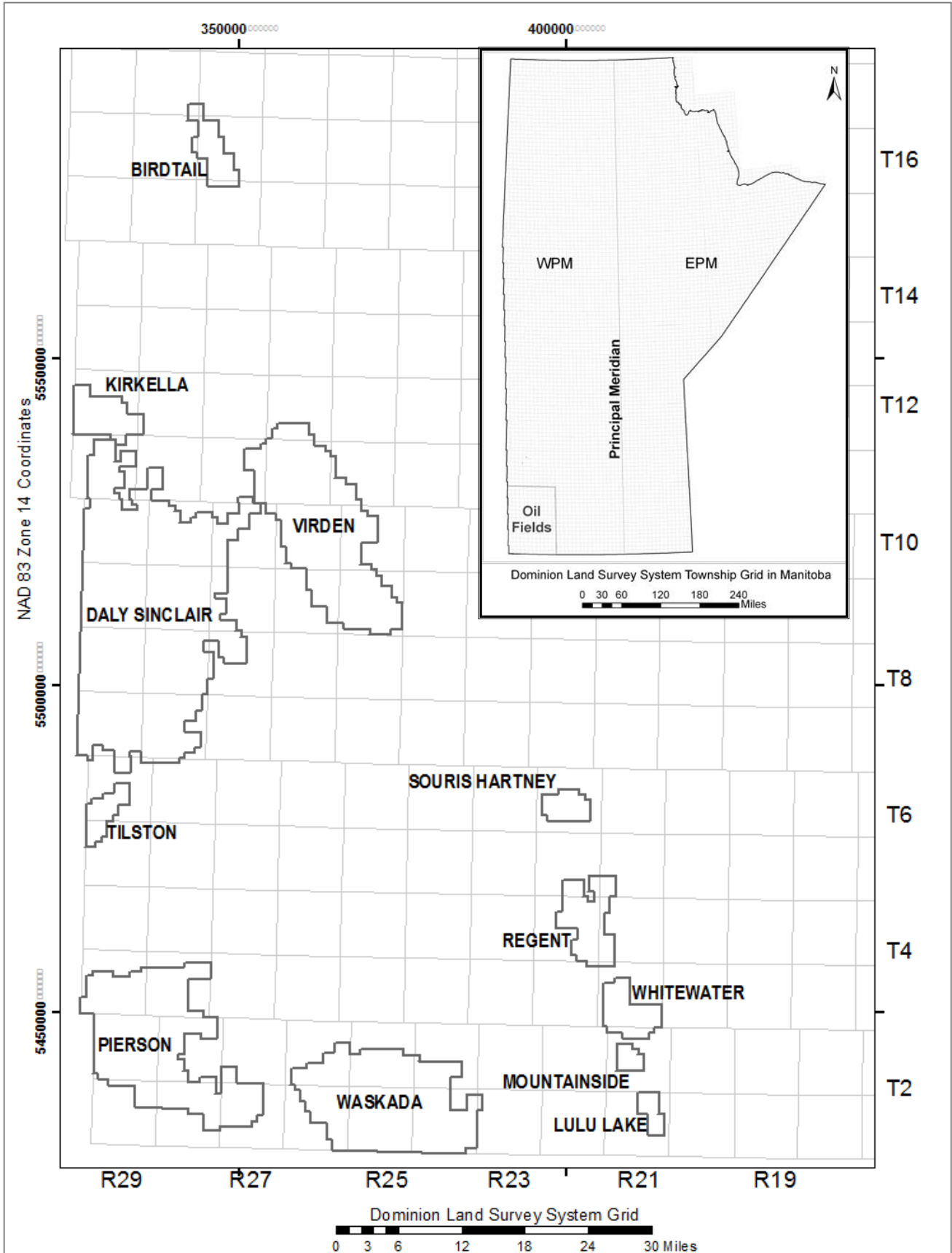


Figure 1 – 2011 Oil Field Location Map

Manitoba Petroleum Branch

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MANITOBA'S DESIGNATED FIELDS

Effective **January 1, 2011**, the following Fields are designated under clause 11(4)(b) of The Oil and Gas Act.

The area encompassed by each Field is outlined on the reference plats listed on pages 9 to 18. All Fields and Pools are drawn on the Dominion Land Survey System Grid, a description of which can be found on page 67.



Keith Lowdon, Director

FIELD	CODE	PLAT
Daly Sinclair Field	01	p. 9
Tilston Field	02	p. 10
Waskada Field	03	p. 11
Lulu Lake Field	04	p. 10
Viriden Field	05	p. 12
Whitewater Field	06	p. 13
Pierson Field	07	p. 14
Kirkella Field	09	p. 15
Souris Hartney Field	10	p. 16
Regent Field	13	p. 17
Mountainside Field	14	p. 13
Birdtail Field	15	p. 18

**MANITOBA'S DESIGNATED FIELDS
(FIELD PLATS)**

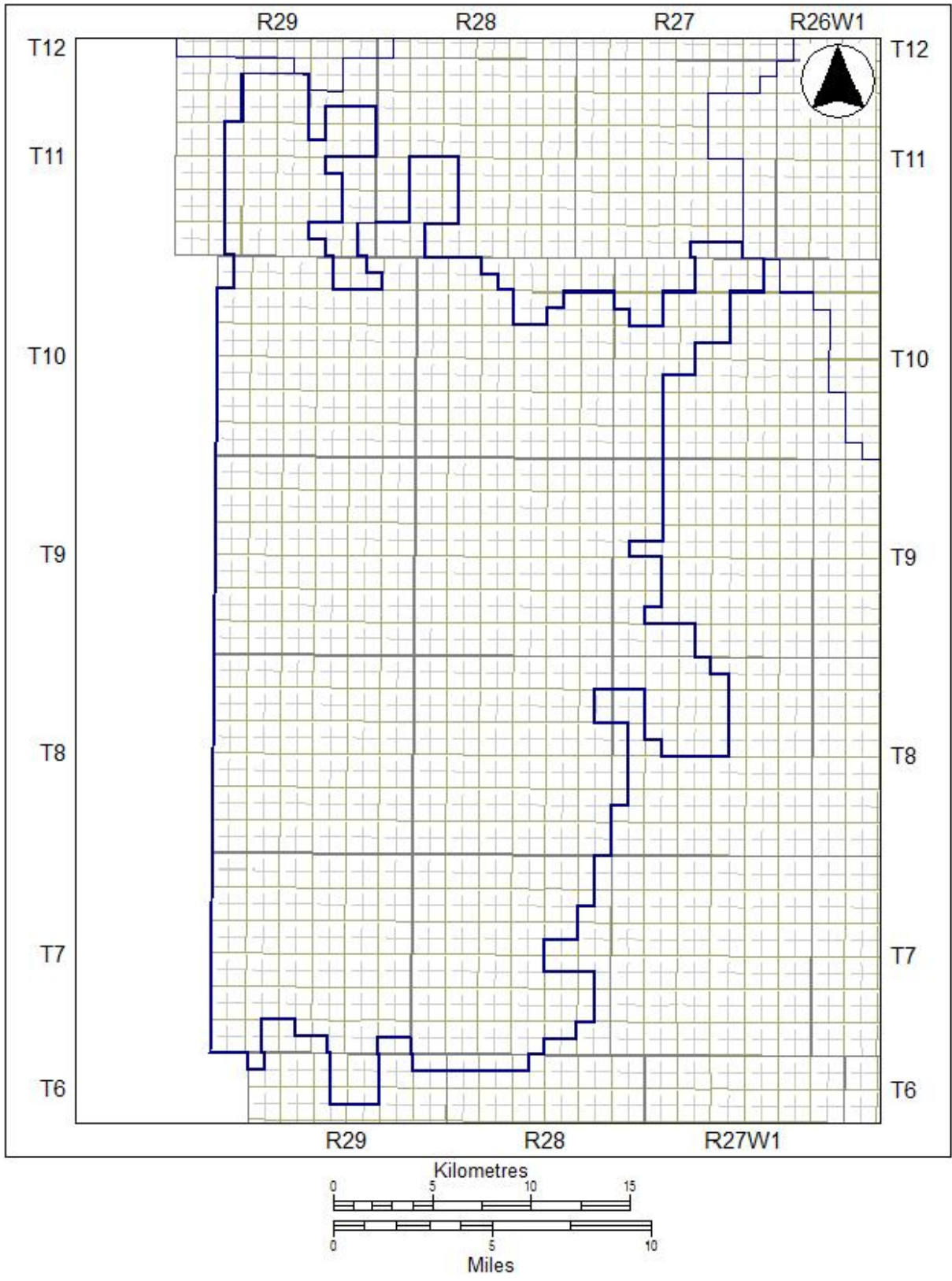


Figure 1 - Daly Sinclair Field (01)

(Drawn on the DLS System Quarter Section Grid)

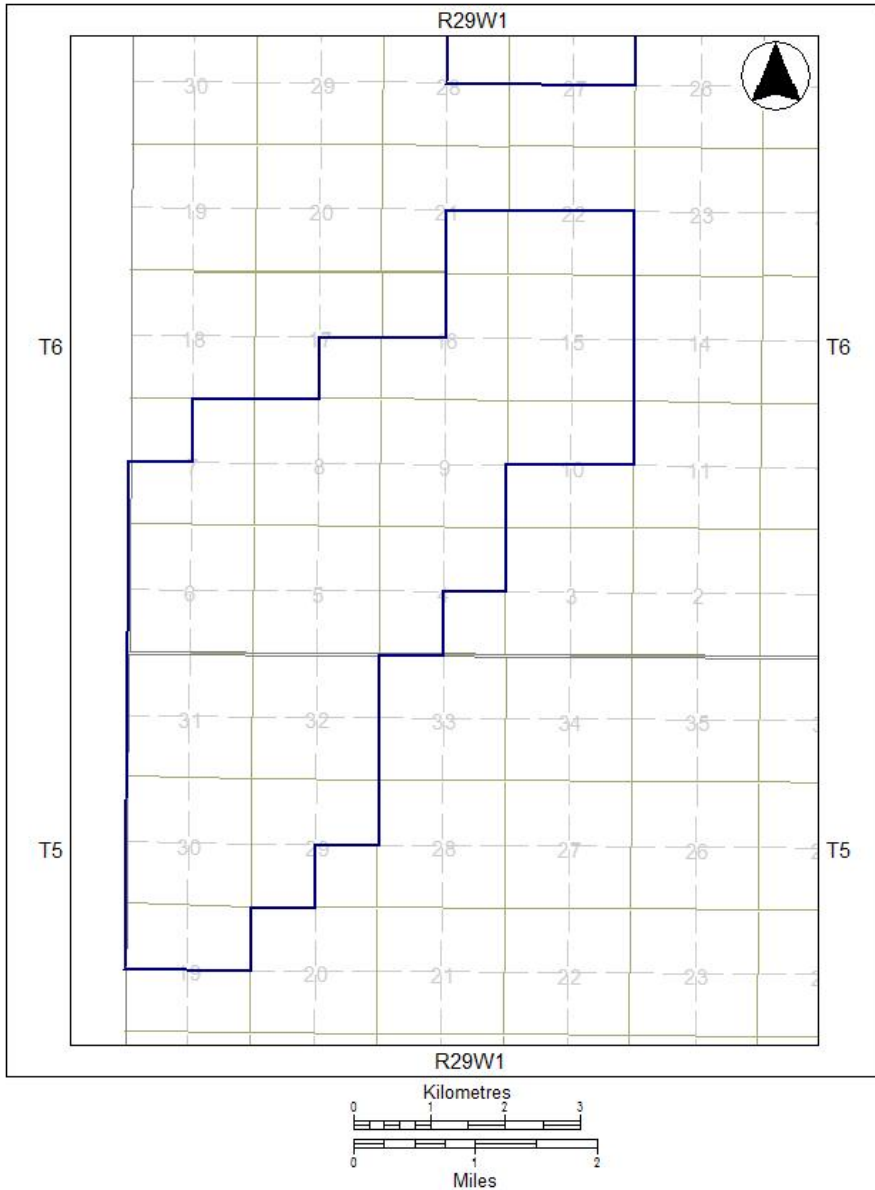


Figure 2 - Tilston Field (02)

(Drawn on the DLS System Quarter Section Grid)

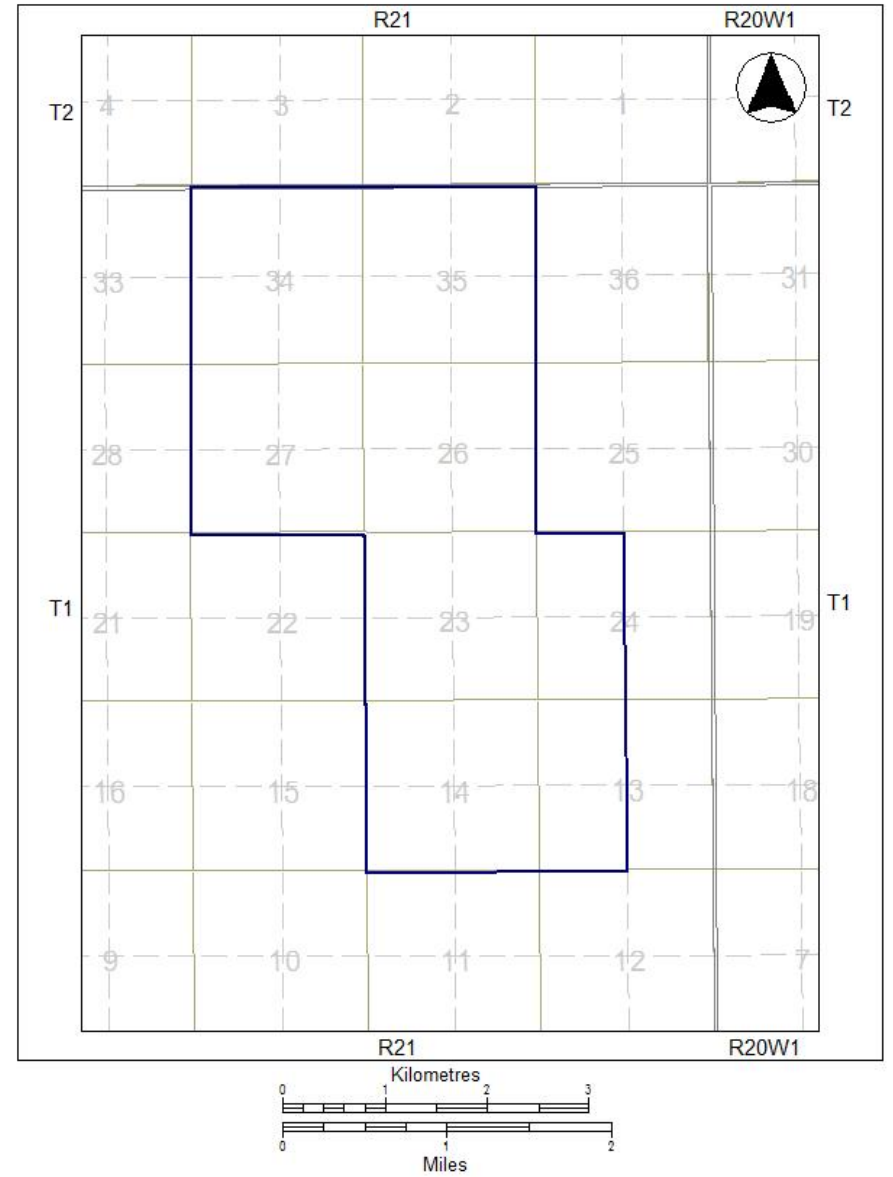


Figure 4 - Lulu Lake Field (04)

(Drawn on the DLS System Quarter Section Grid)

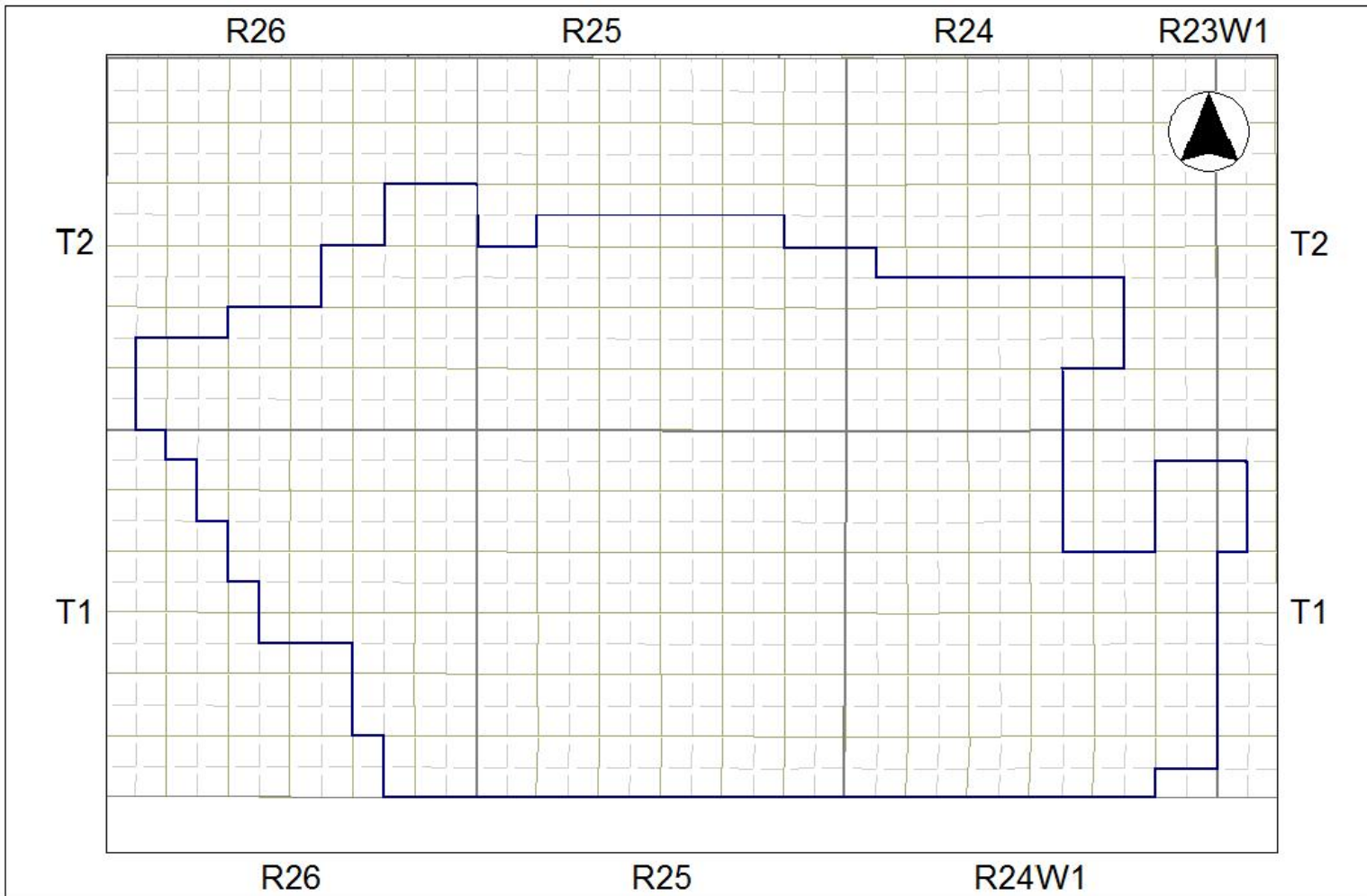


Figure 5 - Waskada Field (04)
 (Drawn on the DLS System Quarter Section Grid)

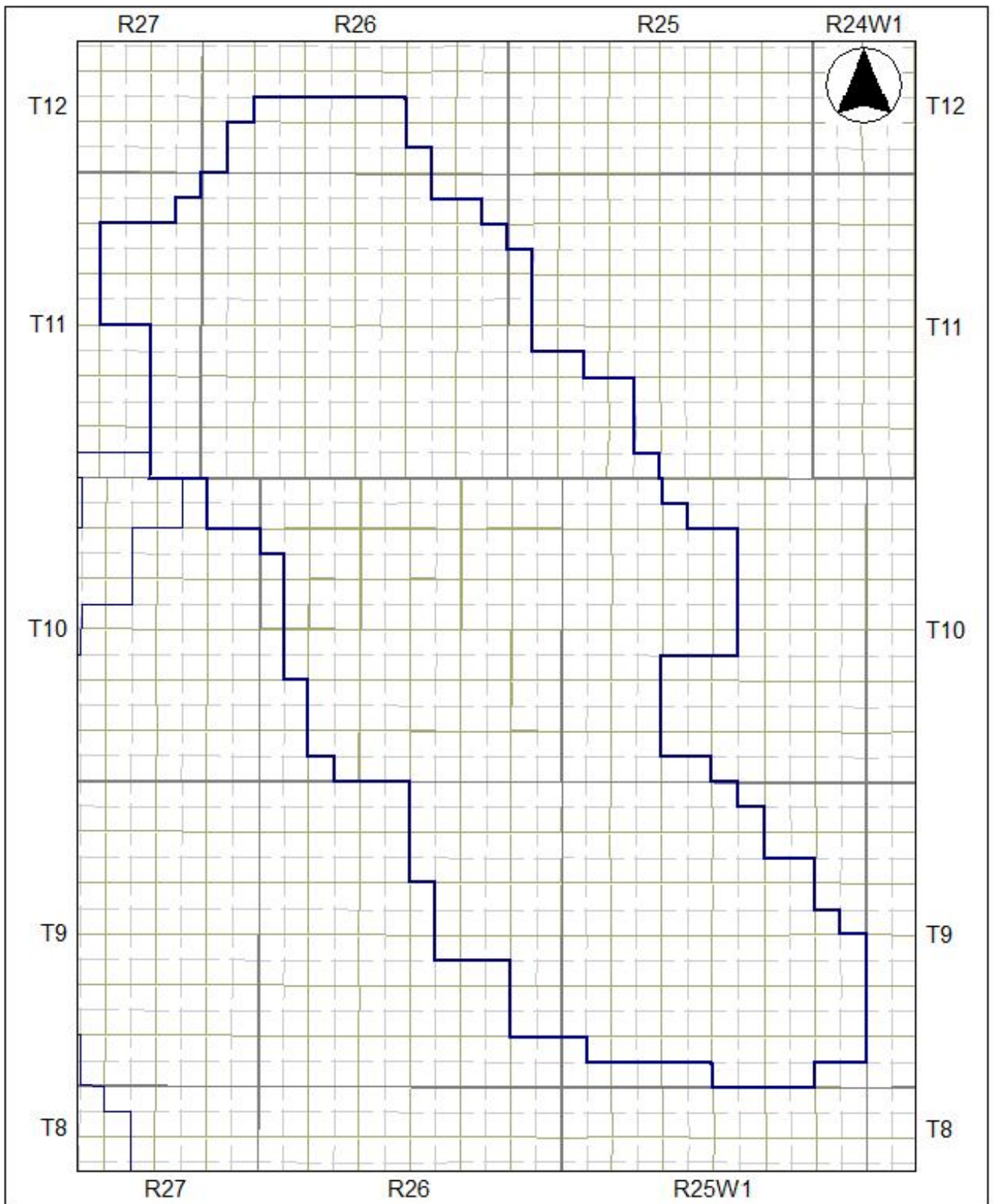


Figure 6 - Virden Field (05)
 (Drawn on the DLS System Quarter section grid)

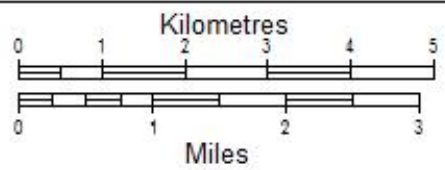
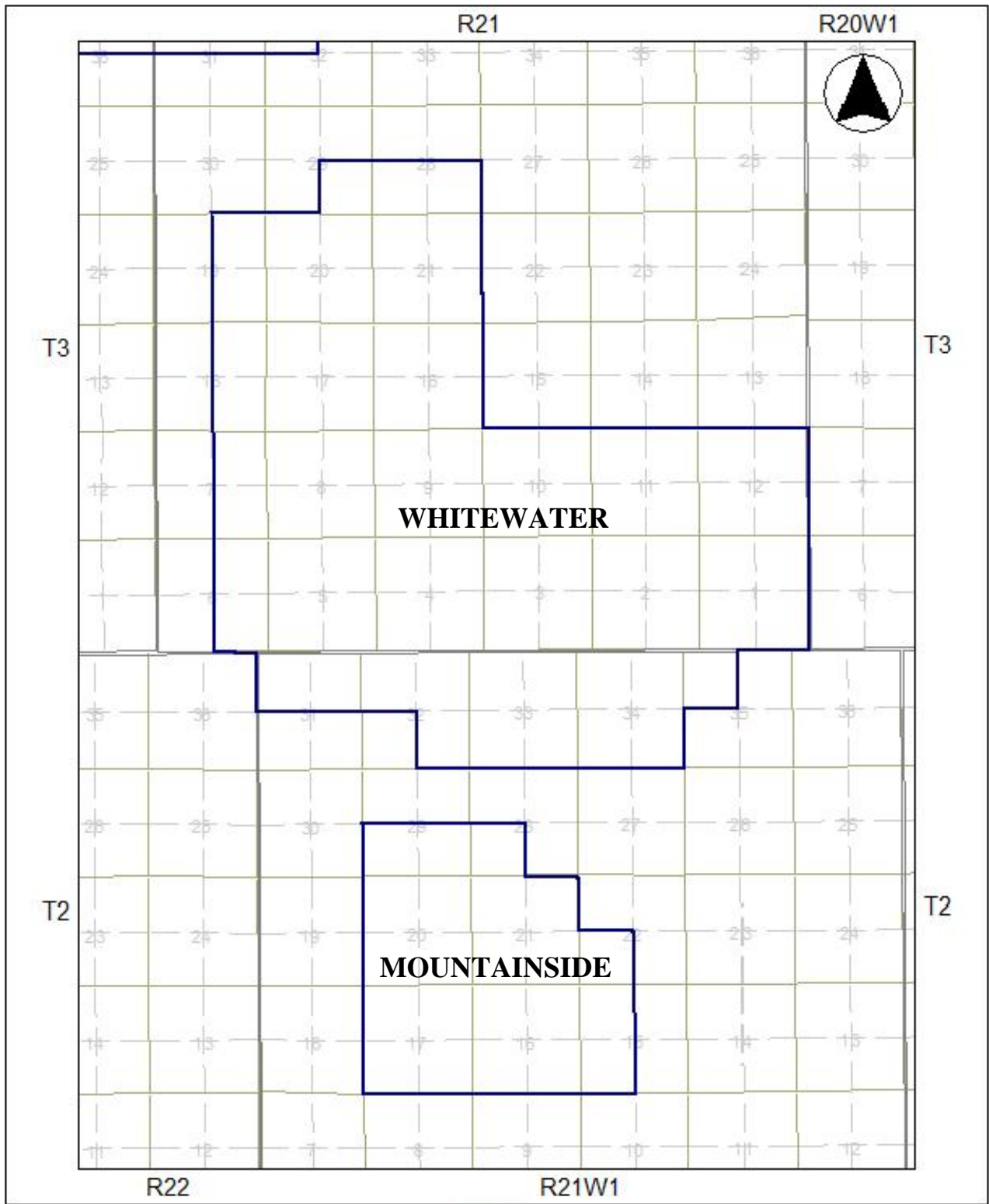


Figure 7 - Whitewater (06) & Mountainside Fields (14)
 (Drawn on the DLS System Quarter Section Grid)

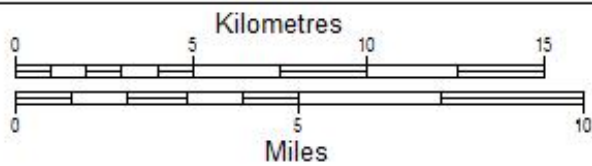
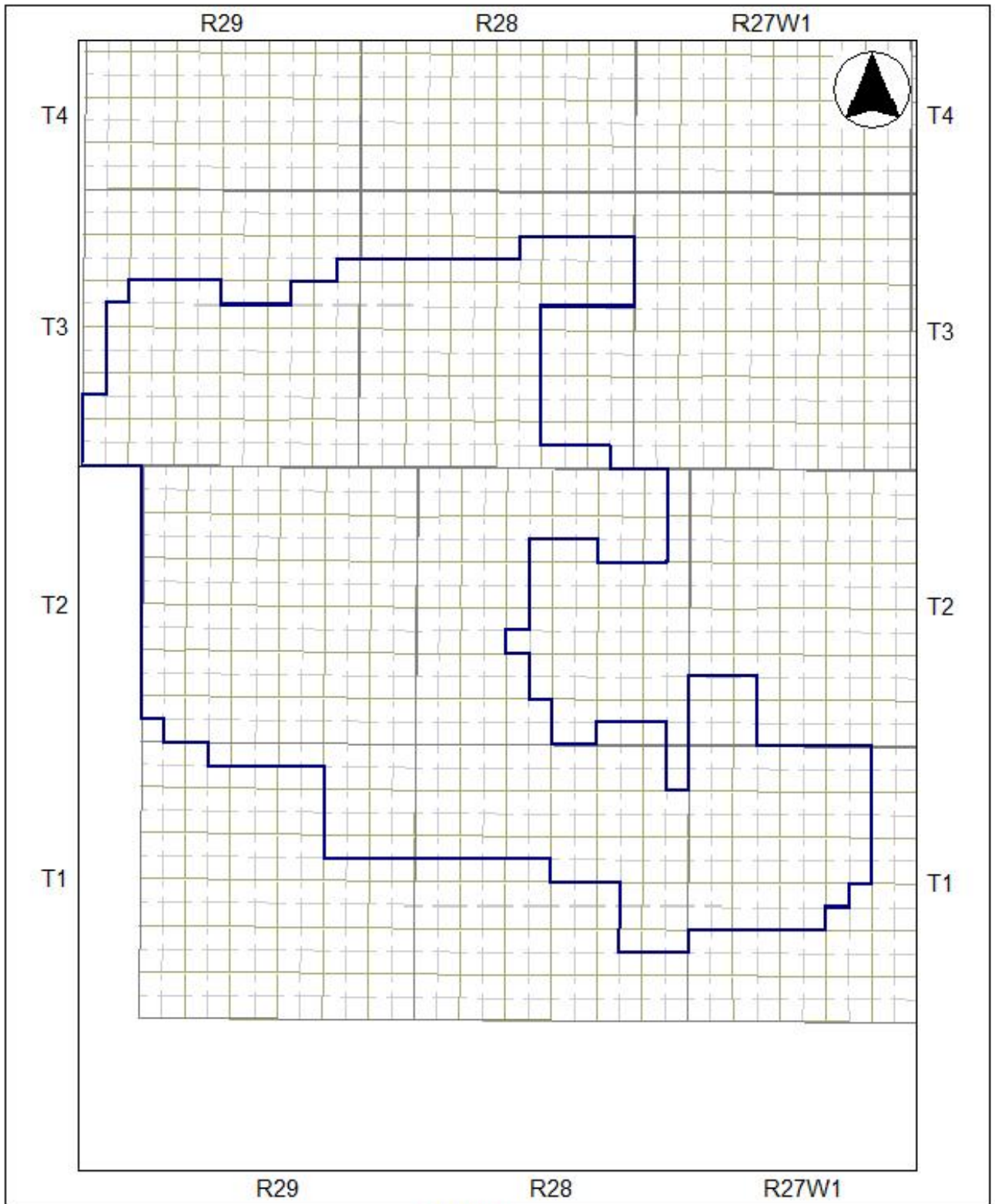


Figure 8 - Pierson Field (07)
 (Drawn on the DLS System Quarter section grid)

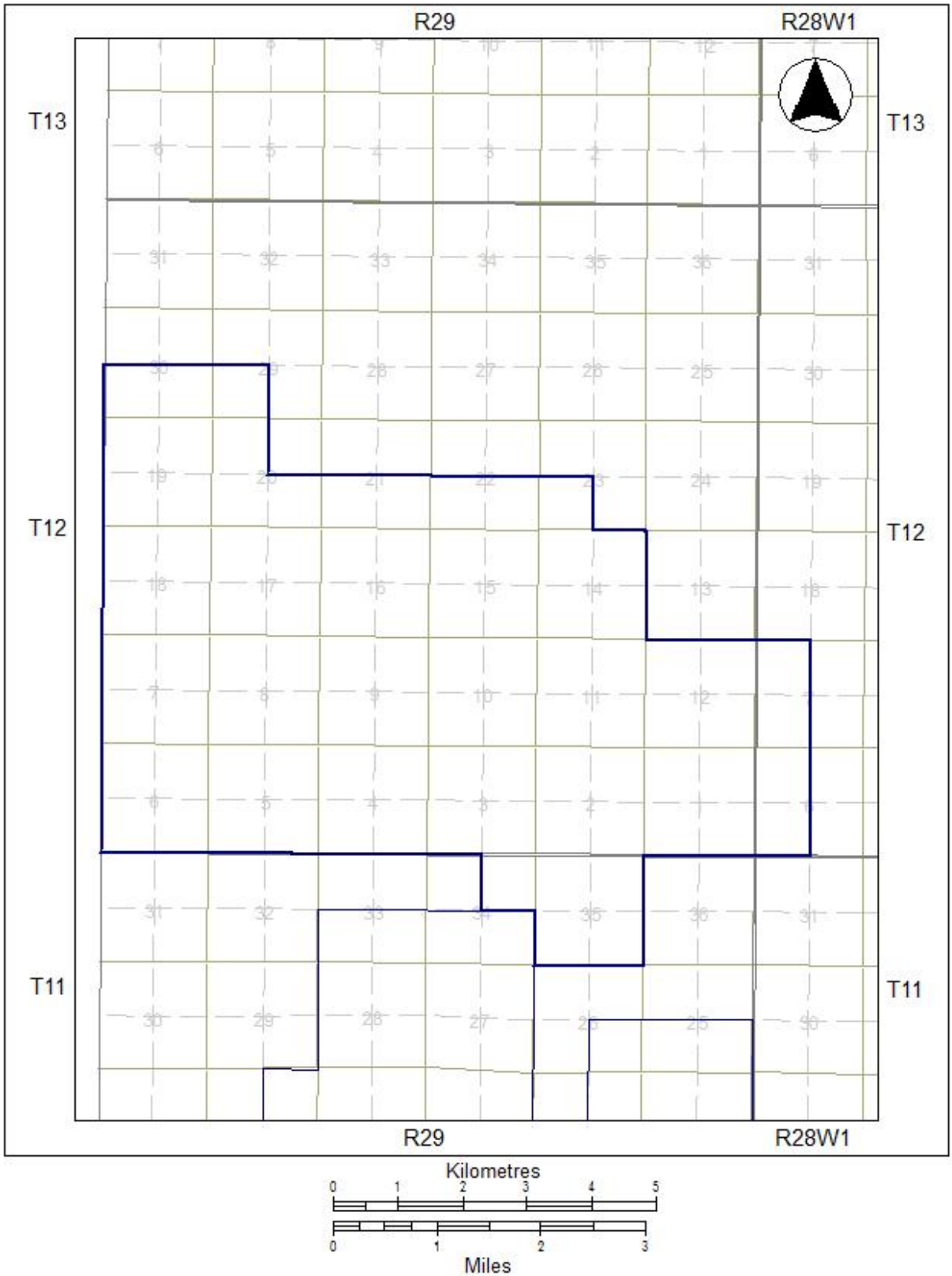


Figure 9 - Kirkella Field (09)
 (Drawn on the DLS System Quarter section grid)

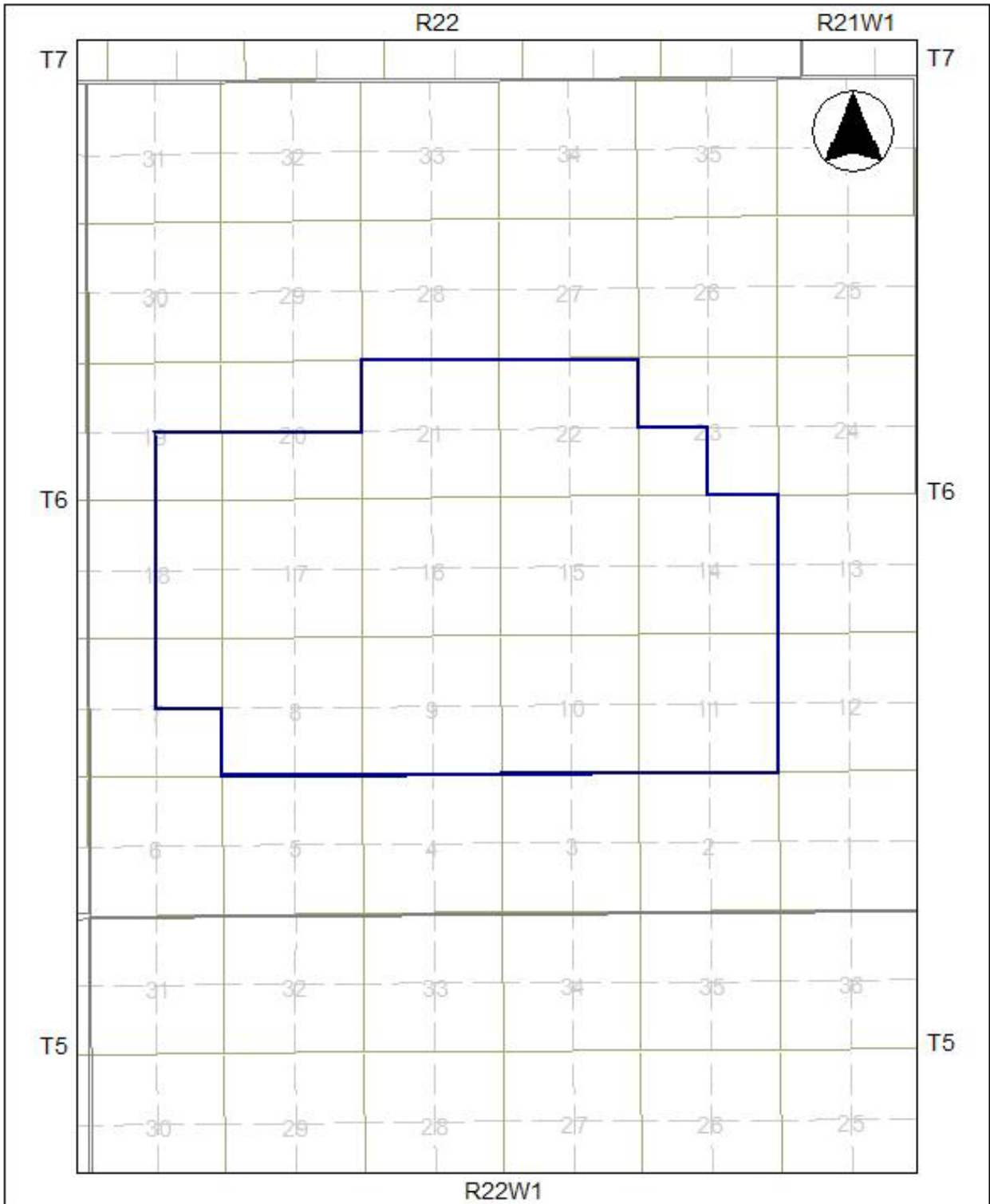


Figure 10 - Souris Hartney Field (10)
 (Drawn on the DLS System Quarter section grid)

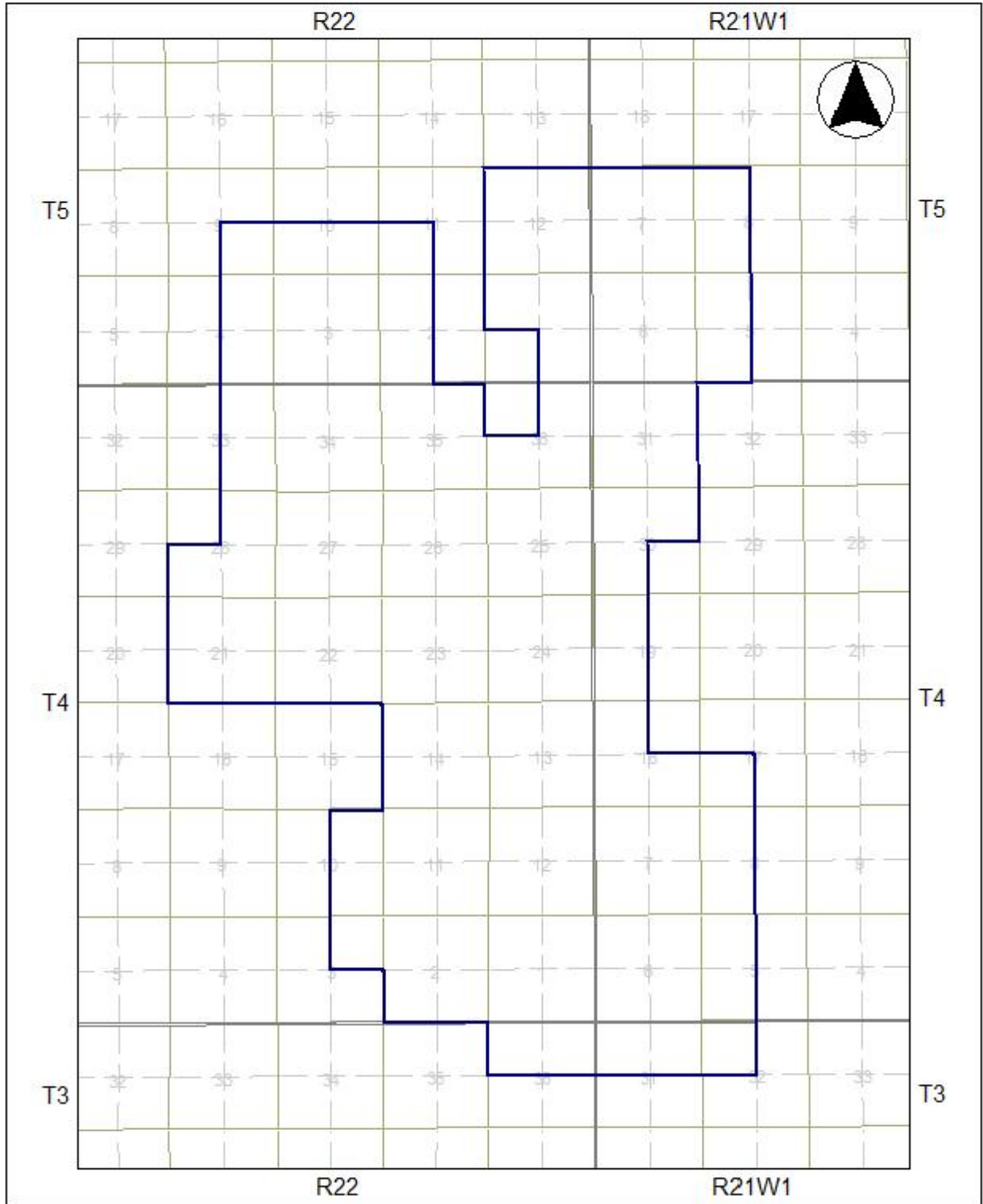


Figure 11 - Regent Field (13)
 (Drawn on the DLS System Quarter section grid)

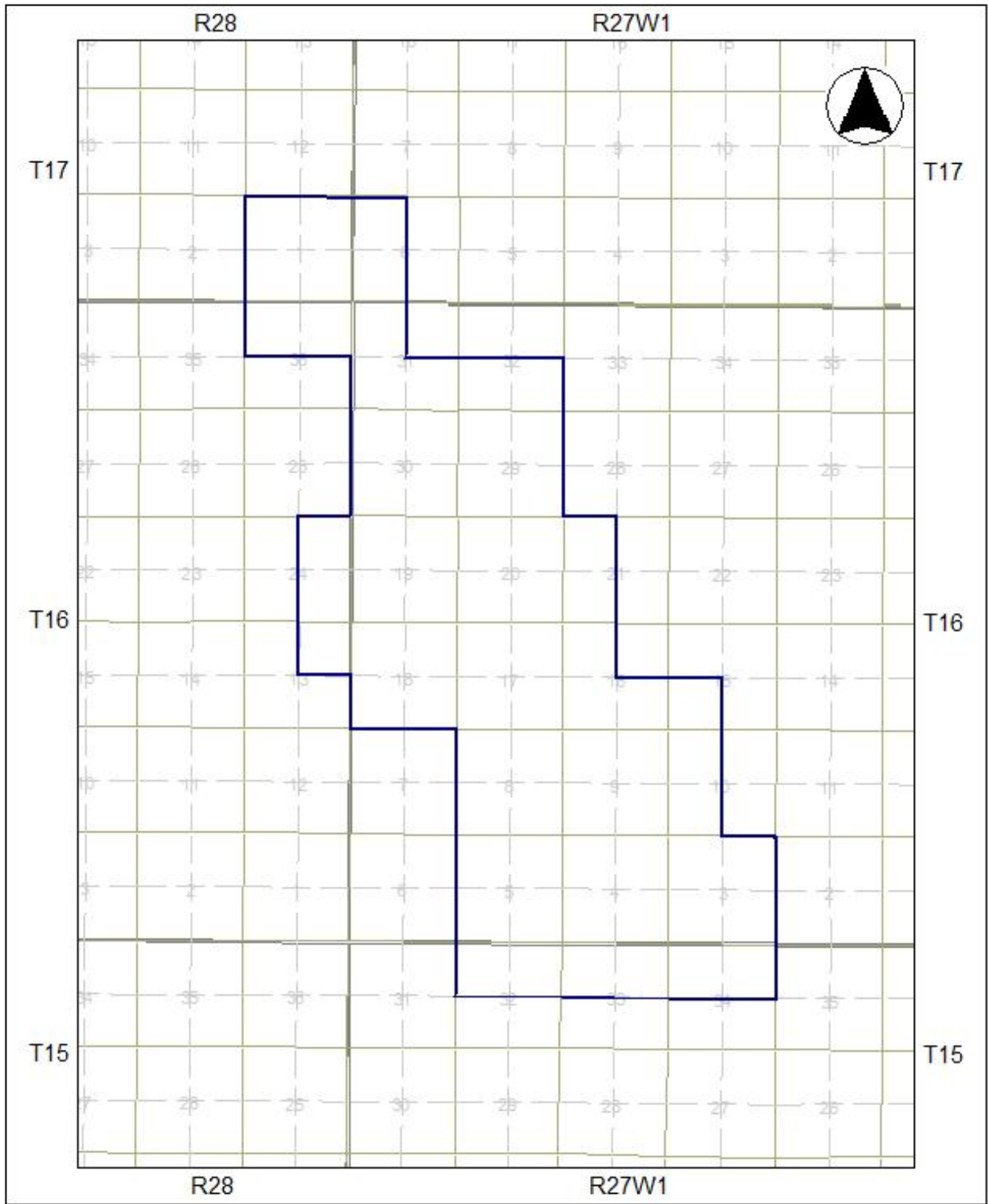


Figure 12 – Birdtail Field (15)
 (Drawn on the DLS System Quarter section grid)

MANITOBA'S DESIGNATED POOLS

Effective **January 1, 2011** the following Pools are designated under clause 11(4)(a) of the Oil and Gas Act.

The area encompassed by each Pool and stratigraphic interval is described herein, or outlined on the reference plats listed on pages 26 to 66.

A handwritten signature in black ink, appearing to read "Keith Lowdon". The signature is written in a cursive style with a large initial "K" and a long, sweeping underline.

Keith Lowdon, Director

MANITOBA'S DESIGNATED POOLS

POOL	CODE	PLAT (Page #)	REFERENCE WELL	
			UWI	INTERVAL (meters KB)
DALY SINCLAIR FIELD				
Lodgepole A	01 59A	27	100/14-04-010-28W1/00	725.4-821.4
Lodgepole B	01 59B	27	100/13-14-009-28W1/00	736.4-832.7
Lodgepole C	01 59C	27	100/03-33-008-27W1/00	736.7-837.0
Lodgepole D	01 59D	27	100/07-26-009-29W1/00	783.3-883.3
Lodgepole E	01 59E	27	100/13-21-010-28W1/00	718.5-802.2
Lodgepole I	01 59I	27	100/05-07-010-29W1/00	822.0-865.0
Lodgepole K	01 59K	27	100/08-30-010-29W1/00	788.0-877.5
Lodgepole P	01 59P	27	100/03-27-010-29W1/00	769.0-853.2
Lodgepole S	01 59S	27	100/15-12-009-29W1/00	816-819
Lodgepole T	01 59T	27	100/08-17-010-29W1/00	808.0-813.0
Lodgepole V	01 59V	27	100/04-07-009-28W1/00	798-804
Lodgepole W	01 59W	27	100/10-18-007-29W1/00	927.5-932.5
Lodgepole X	01 59X	27	100/02-21-007-28W1/00	
Lodgepole Y	01 59Y	27	100/03-03-009-29W1/00	822.5-825.5
Lodgepole Z	01 59Z	27	100/16-35-008-29W1/00	812.0-880.0
Lodgepole AA	01 59AA	27	100/06-15-008-28W1/00	778.0-888.0
Lodgepole BB	01 59BB	27	100/15-17-008-28W1/00	793.0-903.0
Lodgepole CC	01 59CC	27	100/12-05-009-29W1/00	839.0-951.0
Lodgepole DD	01 59DD	27	100/06-33-008-28W1/00	769.0-872.0
Lodgepole EE	01 59EE	27	100/15-05-008-28W1/00	826.5-832.5
Lodgepole FF	01 59FF	27	100/12-11-011-29W1/00	730.5-733.5; 748.5-751
Lodgepole GG	01 59GG	27	100/06-16-011-29W1/00	744-783.3
Lodgepole HH	01 59HH	27	100/05-10-011-29W1/00	826.6-827.7
Lodgepole II	01 59II	27	100/11-27-011-29W1/00	836.5-838; 839-840
Bakken B	01 60B	28	100/10-29-010-28W1/00	811.5-817.0
Bakken G	01 60G	28	100/13-06-009-27W1/00	828.0-832.0
Bakken I	01 60I	28	100/02-23-009-28W1/02	829.8-834.7
Bakken J	01 60J	28	100/07-18-010-27W1/02	780.3-784.6
Bakken L	01 60L	28	100/16-10-010-28W1/02	809.5-813.0
Bakken P	01 60P	28	100/12-28-009-28W1/02	842.7-845.7
Bakken Q	01 60Q	28	100/03-27-009-28W1/02	746.0-748.0
Bakken U	01 60U	28	100/02-19-009-29W1/02	934.5-942.5
Bakken X	01 60X	28	100/05-16-010-28W1/02	824.5-826.0
Bakken Z	01 60Z	28	100/08-07-010-28W1/02	833.0-836.0
Bakken BB	01 60BB	28	100/04-08-010-29W1/02	887.4-890.5
Bakken-Three Forks A	01 62A	28	100/01-22-010-29W1/00	859.5-866.0
Bakken-Three Forks B	01 62B	28	100/04-21-009-29W1/02	917.0-927.0
Bakken-Three Forks D	01 62D	28	100/07-18-010-29W1/02	888.0-896.0
Bakken-Three Forks N	01 62N	28	103/04-24-010-28W1/02	814.0-917.0

POOL	CODE	PLAT (Page #)	REFERENCE WELL	
			UWI	INTERVAL (meters KB)
Bakken-Three Forks R	01 62R	28	100/16-31-009-27W1/02	832.5-834.5
Bakken-Three Forks S	01 62S	28	100/10-18-007-29W1/00	1061.5-1063
Bakken-Three Forks T	01 62T	28	100/11-07-007-29W1/00	1066-1072.4
Bakken-Three Forks V	01 62V	28	100/12-07-009-29W1/00	963-966
Bakken-Three Forks X	01 62X	28	100/03-34-006-29W1/00	1029-1041
Bakken-Three Forks Z	01 62Z	28	100/07-16-011-29W1/00	753-757.5; 842-846
Bakken-Three Forks AA	01 62AA	28	100/16-21-011-29W1/00	842-843
Bakken-Three Forks BB	01 62BB	28	100/08-17-011-28W1/00	849-851
Bakken-Three Forks CC	01 62CC	28	100/12-24-011-29W1/00	837-840; 842-846
Three Forks A	01 65A	29	100/01-14-008-29W1/00	967.0-969.0
Three Forks B	01 65B	29	100/09-30-007-28W1/00	969.0-971.0
TILSTON FIELD				
Mission Canyon 1 A	02 44A	30	100/06-31-005-29W1/00	940.0-969.0
Mission Canyon 1 C	02 44C	30	100/02-08-006-29W1/00	925.0-940.0
Mission Canyon 1 D	02 44D		100/11-15-006-29W1/00	907.0-910.5
WASKADA FIELD				
Favel A	03 10A	31	100/01-03-002-25W1/02	479.5-841.0
Favel B	03 10B	31	100/03-27-001-25W1/02	478.0-479.5
Favel C	03 10C	31	100/10-17-001-24W1/00	481.5-484.5
Lower Amaranth A	03 29A	32	100/11-30-001-25W1/03	884.5-920.5
Lower Amaranth I	03 29I	32	100/03-01-001-25W1/00	873.7-910.0
Lower Amaranth J	03 29J	32	100/01-03-001-25W1/00	885.0-920.5
Lower Amaranth K	03 29K	32	100/03-24-001-25W1/02	866.0-898.0
Lower Amaranth L	03 29L	32	100/10-04-001-25W1/00	890.2-923.4
Lower Amaranth O	03 29O	32	100/13-10-002-24W1/00	869.5-879.5
Mission Canyon 3b A	03 42A	33	100/11-30-001-25W1/03	920.5-929.6
Mission Canyon 3b B	03 42B	33	100/13-27-001-26W1/00	920.0-936.5
Mission Canyon 3b C	03 42C	33	100/05-07-001-25W1/00	931.5-941.0
Mission Canyon 3b E	03 42E	33	100/04-08-001-25W1/00	936.0-948.0
Mission Canyon 3b F	03 42F	33	100/11-22-001-26W1/02	929.5-948.0
Mission Canyon 3b G	03 42G	33	100/11-05-002-26W1/00	929.0-955.5
Mission Canyon 3a A	03 43A	34	100/01-25-001-26W1/00	928.0-950.0
Mission Canyon 3a B	03 43B	34	100/12-23-001-25W1/00	904.6-912.6
Mission Canyon 3a C	03 43C	34	100/12-26-001-26W1/00	924.0-940.0
Mission Canyon 3a D	03 43D	34	100/10-30-001-25W1/00	921.0-931.0
Mission Canyon 3a E	03 43E	34	100/02-12-001-26W1/02	930.0-944.0

POOL	CODE	PLAT (Page #)	REFERENCE WELL	
			UWI	INTERVAL (meters KB)
Mission Canyon 3a F	03 43F	34	100/15-05-001-25W1/00	931.0-941.0
Mission Canyon 3a G	03 43G	34	100/12-31-001-25W1/00	912.5-929.0
Mission Canyon 3a H	03 43H	34	100/06-18-002-25W1/00	899.0-907.0
Mission Canyon 3a I	03 43I	34	100/07-35-001-26W1/00	917.0-935.0
Mission Canyon 3a K	03 43K	34	100/06-19-001-25W1/00	924.0-934.0
Mission Canyon 3a L	03 43L	34	100/08-32-001-25W1/00	909.5-917.0
Mission Canyon 3a M	03 43M	34	100/10-10-001-25W1/00	915.0-925.0
Mission Canyon 3a N	03 43N	34	100/02-20-001-25W1/00	919.5-930.0
Mission Canyon 3a O	03 43O	34	100/10-04-001-25W1/00	931.5-933
Mission Canyon 1 A	03 44A	35	100/01-30-001-25W1/00	917.4-947.9
Mission Canyon 1 B	03 44B	35	100/09-13-001-26W1/00	920.5-967.4
Mission Canyon 1 C	03 44C	35	100/02-22-001-25W1/00	908.3-943.0
Mission Canyon 1 D	03 44D	35	100/04-09-002-25W1/00	986.0-912.0
Mission Canyon 1 E	03 44E	35	100/06-33-001-25W1/00	905.5-942.0
Mission Canyon 1 F	03 44F	35	100/02-27-001-25W1/00	902.5-930.0
Mission Canyon 1 G	03 44G	35	100/04-05-001-24W1/00	910.0-937.0
Mission Canyon 1 H	03 44H	35	100/03-24-001-25W1/00	898.0-910.0
Mission Canyon 1 I	03 44I	35	100/02-14-002-25W1/00	882.0-915.0
Mission Canyon 1 I	03 44J	35	100/04-24-002-26W1/00	898.0-900.0
Mission Canyon 1 K	03 44K	35	100/02-33-001-24W1/00	871.7-900.0
Mission Canyon 1 L	03 44L	35	100/04-12-001-24W1/00	941.5-946.0
Mission Canyon 1 M	03 44M	35	100/09-25-001-24W1/00	939.5-941.5
Mission Canyon 1 N	03 44N	35	100/06-07-001-24W1/00	897.5-898.5
Mission Canyon 1 O	03 44O	35	100/13-09-002-24W1/00	865.0-873.0
Mission Canyon 1 P	03 44P	35	100/15-10-002-24W1/00	888.8-893.8
Mission Canyon 1Q	03 44Q	35	100/07-06-002-24W1/00	876.5-878.5
LULU LAKE FIELD				
Lodgepole WL A	04 52A	36	100/08-23-001-21W1/00	1008.5-1027.0
Lodgepole WL B	04 52B	36	100/15-27-001-21W1/00	1005.5-1024.0
VIRDEN FIELD				
Lodgepole A	05 59A	37	102/06-27-011-26W1/00	563.9-667.0
Lodgepole B	05 59B	37	100/06-28-010-26W1/00	623.0-726.0
Lodgepole C	05 59C	37	100/10-21-009-25W1/00	595.0-648.0
Lodgepole D	05 59D	37	100/07-11-009-25W1/00	598.9-655.3
Lodgepole E	05 59E	37	100/07-26-009-26W1/00	634.0-732.1
Lodgepole G	05 59G	37	100/10-01-011-27W1/00	647.0-710.0
WHITEWATER FIELD				
Lower Amaranth A	06 29A	38	100/04-21-003-21W1/02	745.0-757.7

POOL	CODE	PLAT (Page #)	REFERENCE WELL	
			UWI	INTERVAL (meters KB)
Lodgepole WL A	06 52A	39	100/16-17-003-21W1/00	759.6-786.1
Lodgepole WL B	06 52B	39	100/16-02-003-21W1/00	790.5-812.5
Lodgepole WL C	06 52C	39	100/05-04-003-21W1/00	923.0-1856.0 md
Lodgepole Virden A	06 53A	40	100/05-12-003-21W1/00	787.0-804.5
PIERSON FIELD				
Lower Amaranth A	07 29A	41	100/04-26-003-28W1/00	915.7-949.5
Lower Amaranth B	07 29B	41	100/12-30-002-28W1/02	955.0-992.0
Lower Amaranth E	07 29E	41	100/04-01-002-29W1/00	1016.0-1025.0
Lower Amaranth L	07 29L	41	100/02-26-001-29W1/00	1000.0-1038.0
Lower Amaranth P	07 29P	41	100/03-24-001-28W1/00	972-982
Lower Amaranth Q	07 29Q	41	100/11-21-001-27W1/00	945-963
Lower Amaranth – Mission Canyon 3b A	07 35A	42	100/14-17-002-29W1/02	997.0-1044.0
Lower Amaranth – Mission Canyon 3b B	07 35B	42	100/01-35-002-28W1/00	959.0-963.0
Lower Amaranth – Mission Canyon 3b C	07 35C	42	100/04-34-002-28W1/00	975.4-976.0
Lower Amaranth – Mission Canyon 3b D	07 35D	42	100/15-20-002-28W1/02	975.0-979.0
Mission Canyon 3 B	07 41B	43	100/14-05-002-28W1/02	1007.5-1030.0
Mission Canyon 3 C	07 41C	43	100/12-06-003-29W1/00	1165.0-1605.0 md
Mission Canyon 3 D	07 41D	43	100/07-21-001-27W1/00	
Mission Canyon 3b B	07 42B	44	100/08-07-003-28W1/00	981.5-990.6
Mission Canyon 3b C	07 42C	44	100/06-17-003-29W1/00	1002.0-1016.0
Mission Canyon 3b D	07 42D	44	100/13-32-002-29W1/00	1021.1-1033.3
Mission Canyon 3b E	07 42E	44	100/11-30-002-28W1/00	990.0-1002.0
Mission Canyon 3b F	07 42F	44	100/14-20-002-28W1/02	987.5-1003.4
Mission Canyon 3b J	07 42J	44	100/13-33-001-28W1/00	1002.0-1026.0
Mission Canyon 3b K	07 42K	44	100/05-30-001-28W1/00	1025.0-1043.5
Mission Canyon 3b L	07 42L	44	100/06-23-002-29W1/00	1012-1020
Mission Canyon 3b M	07 42M	44	100/08-06-002-27W1/00	967.7-969.7
Mission Canyon 3a A	07 43A	45	100/08-16-003-29W1/00	999.7-1018.0
Mission Canyon 3a B	07 43B	45	100/09-18-003-28W1/00	976.9-990.6
Mission Canyon 3a C	07 43C	45	100/04-12-003-29W1/00	995.0-1015.0
Mission Canyon 3a E	07 43E	45	100/06-10-003-28W1/00	970.3-985.0
Mission Canyon 3a F	07 43F	45	100/14-05-003-29W1/03	1085.0-1385.0 md

POOL	CODE	PLAT (Page #)	REFERENCE WELL	
			UWI	INTERVAL (meters KB)
Mission Canyon 1 A	07 44A	46	100/04-25-003-28W1/00	948.0-980.0
KIRKELLA FIELD				
Lodgepole Dolomite A	09 51A	47	100/14-08-012-29W1/00	725.0-742.0
Lodgepole Dolomite B	09 51B	47	100/04-19-012-29W1/00	729.0-744.0
Lodgepole Daly A	09 54A	48	100/14-10-012-29W1/00	722.4-734.3
Lodgepole Daly B	09 54B	48	100/05-17-012-29W1/00	746.0-755.0
Lodgepole Daly C	09 54C	48	100/04-18-012-29W1/00	745.5-757.0
Lodgepole Daly D	09 54D	48	100/14-01-012-29W1/00	714.0-740.0
Lodgepole Daly E	09 54E	48	100/16-06-012-29W1/00	746.0-758.0
Lodgepole Crinoidal A	09 55A	49	100/10-03-012-29W1/00	758.0-761.5
Lodgepole Crinoidal B	09 55B	49	100/11-15-012-29W1/00	716.0-720.0 md
Lodgepole Crinoidal C	09 55C	49	100/15-10-012-29W1/00	715.0-729.0
Lodgepole A	09 59A	50	100/16-16-12-29W1/03	741.5-742.5; 752.5-753.5
Bakken-Three Forks A	09 62A	51	100/12-15-012-29W1/02	786.5-791.5
Bakken-Three Forks B	09 62B	51	100/16-03-012-29W1/02	809.0-811.0
Bakken-Three Forks C	09 62C	51	100/14-35-011-29W1/00	817-818.5
SOURIS HARTNEY FIELD				
Lodgepole Virden A	10 53A	52	100/04-16-006-22W1/00	653.2-671.8
REGENT FIELD				
Lodgepole WL A	13 52A	53	100/16-02004-22W1/00	761.5-780.0
Lodgepole WL B	13 52B	53	100/15-21-004-22W1/00	758.6-777.8
Lodgepole Virden A	13 53A	54	100/06-07-004-21W1/00	766.9-781.8
Lodgepole Virden B	13 53B	54	100/14-13-004-22W1/00	759.0-780.0
Lodgepole Virden D	13 53D	54	100/12-31-004-21W1/00	733.0-738.4
Lodgepole Virden E	13 53E	54	100/02-07-005-21W1/00	713.5-715
MOUNTAINSIDE FIELD				
Lodgepole WL A	14 52A	39	103/11-16-002-21W1/00	1078.0-1451.4
BIRDTAIL FIELD				

POOL	CODE	PLAT (Page #)	REFERENCE WELL	
			UWI	INTERVAL (meters KB)
Bakken A	15 60A	55	100/05-04-016-27W1/00	518.5-524.5
Bakken B	15 60B	55	100/09-09-016-27W1/00	518.5-527.5
Bakken C	15 60C	55	100/01-19-016-27W1/00	519.5-524.8
Bakken D	15 60D	55	100/04-03-016-27W1/00	525.5-530.5
Bakken E	15 60E	55	103/09-08-016-27W1/00	520.0-525.0
Bakken-Three Forks A	15 62A	55	100/09-30-016-27W1/00	535.5-538
Bakken-Three Forks B	15 62B	55	100/01-01-017-28W1/00	534.5-536.5
OTHER AREAS				
Melita A	99 19A	56	100/14-15-016-29W1/00	432.3-446.0
Melita B	99 19B	56	100/06-17-016-29W1/00	438-441
Lower Amaranth-Lodgepole	99 40A	57	100/03-33-008-24W1/00	570.0-584.0
Mission Canyon 1 A	99 44A	58	100/08-31-002-23W1/00	812.0-843.0
Mission Canyon 1 D	99 44D	59	100/16-02-003-26W1/00	879.0-922.0
Mission Canyon 1 E	99 44E	60	100/16-06-006-28W1/00	905.0-908.0
Mission Canyon 1 G	99 44G	60	100/02-16-006-26W1/00	855.0-1229.0 md
Mission Canyon 1 H	99 44H	60	100/03-13-006-27W1/00	786.5-790.0
Mission Canyon 1 J	99 44J	60	100/11-36-005-29W1/00	923.0-927.5
Mission Canyon 1 K	99 44K	60	100/09-02-007-27W1/00	777.0-779.5
Mission Canyon 1 L	99 44L	60	100/06-03-007-27W1/00	789.7-794.0
Mission Canyon 1 M	99 44M	58	100/05-35-002-24W1/00	842.0-845.0
Mission Canyon 1 O	99 44O	58	100/14-36-1-23W1/00	944-948
Lodgepole WL C	99 52C	61	100/13-19-004-22W1/00	762.0-775.7
Lodgepole Virden C	99 53C	62	100/05-32-002-23W1/00	827.0-828.5
Lodgepole A	99 59A	63	100/15-16-011-27W1/00	646.2-734.0
Lodgepole I	99 59I	64	100/11-35-002-24W1/00	960.0-1955 md, 1063-1308 md
Lodgepole J	99 59J	64	100/10-18-005-22W1/00	757.0-759; 764.0-765.5
Bakken-Three Forks L	99 62L	65	100/05-08-004-29W1/00	1209.5-1214.5
Bakken-Three Forks M	99 62M	65	100/10-08-006-28W1/00	1064.0-1066.0
Bakken-Three Forks V	99 62V	66	100/12-24-013-29W1/00	677-679
Bakken-Three Forks W	99 62W	66	100/14-09-013-28W1/00	672-674

Appendix B Manitoba Pool Codes p. 69.

**MANITOBA'S DESIGNATED POOLS
(POOL PLATS)**

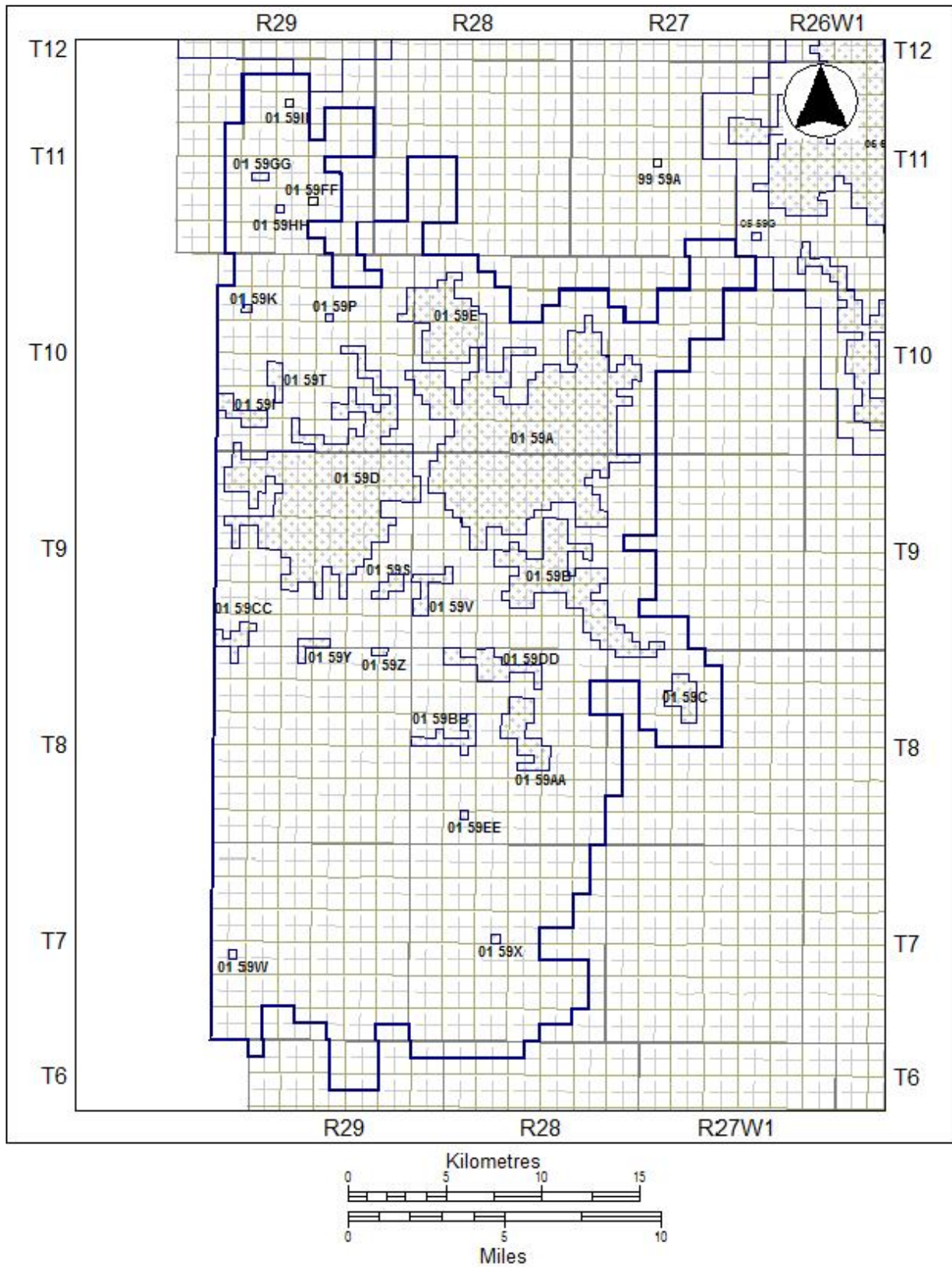


FIGURE 13 - DALY SINCLAIR LODGEPOLE POOLS (01 59A - 01 59II)
 (Drawn on the DLS System Quarter Section Grid)

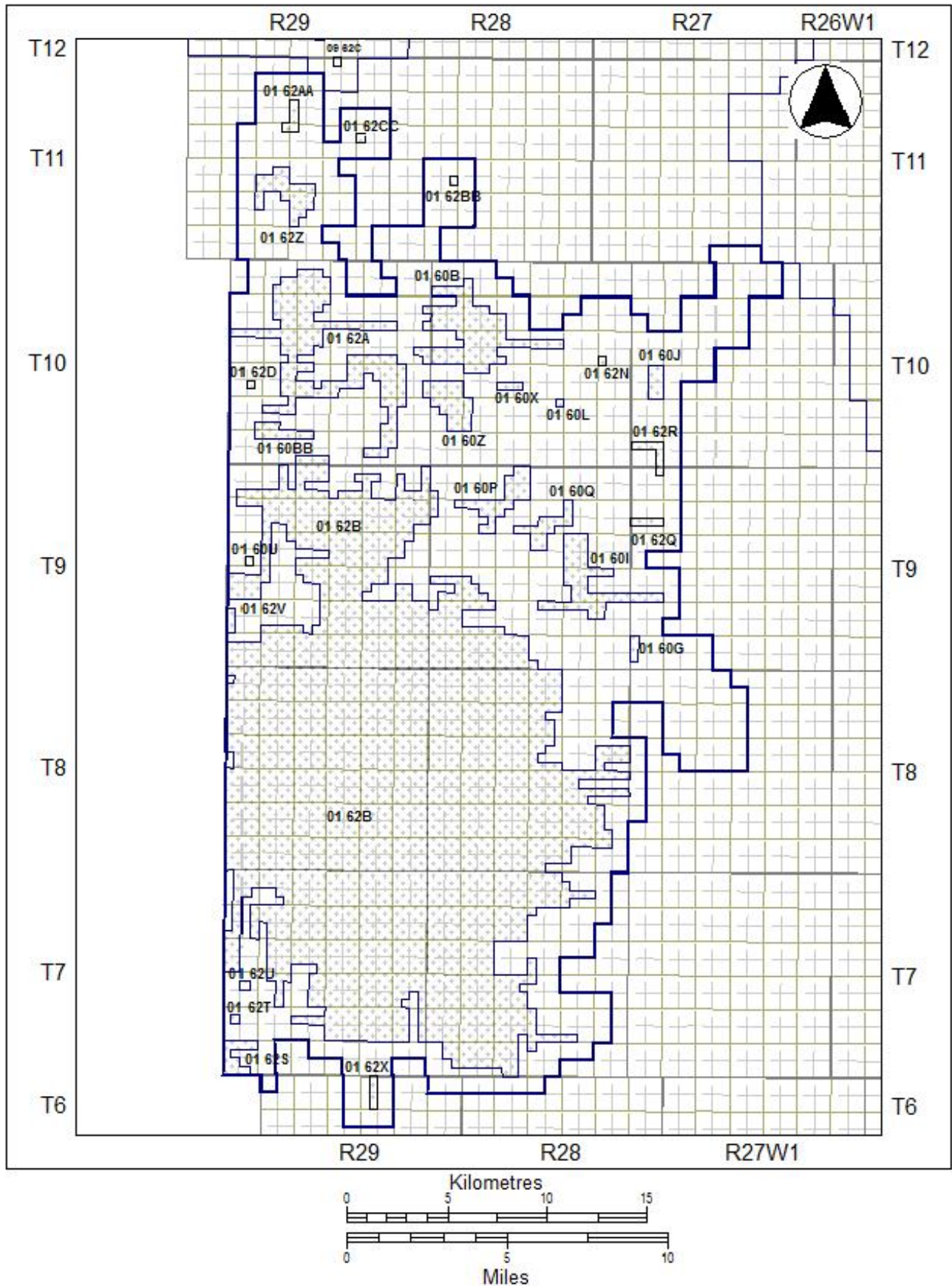


FIGURE 14 - DALY SINCLAIR BAKKEN & BAKKEN-THREE FORKS POOLS (01 60A - 01 60BB & 01 62A – 01 62CC) (Drawn on the DLS System Quarter Section Grid)

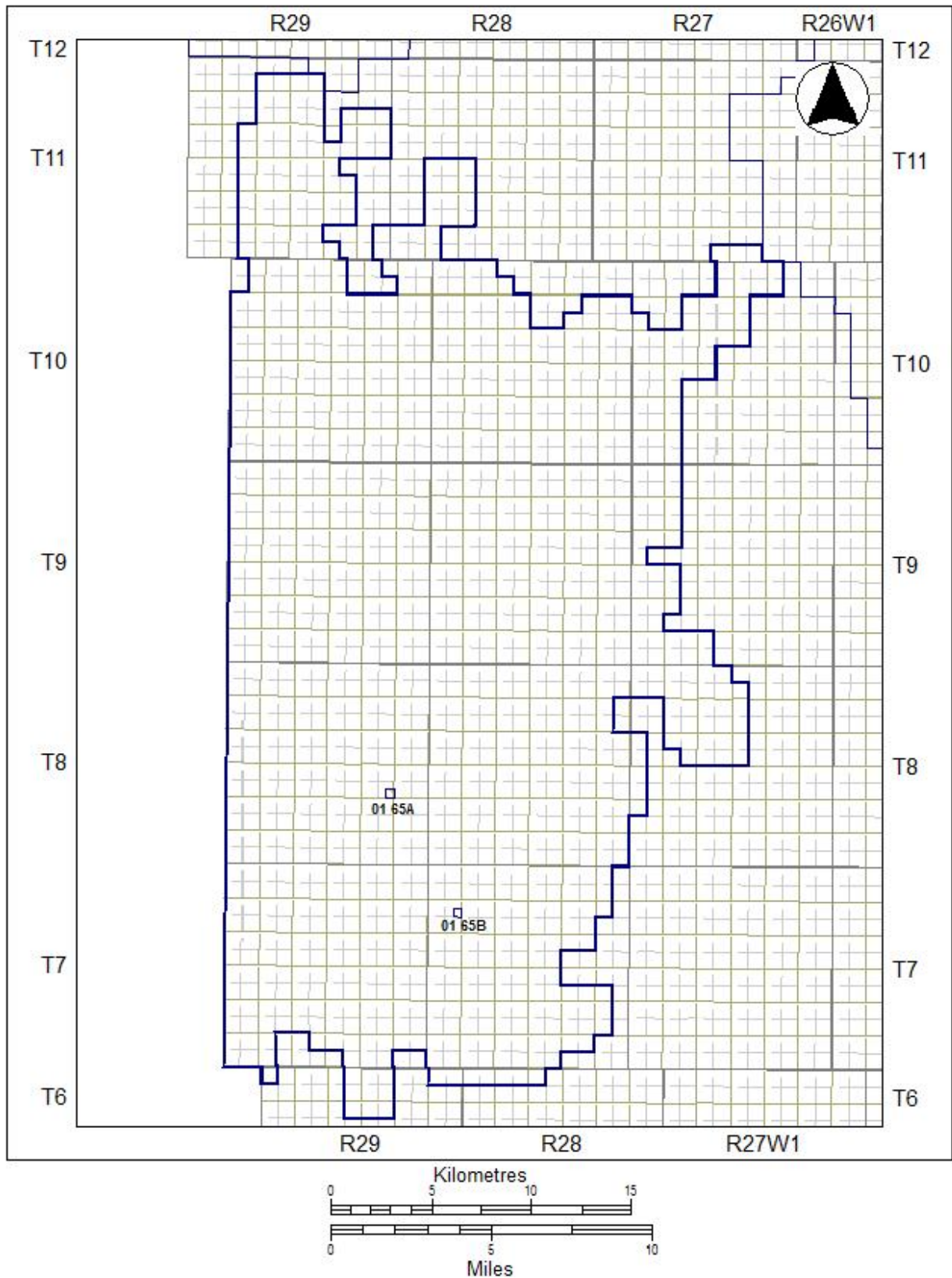


FIGURE 15 - DALBY SINCLAIR THREE FORKS POOLS (01 65A & 01 65B)
 (Drawn on the DLS System Quarter Section Grid)

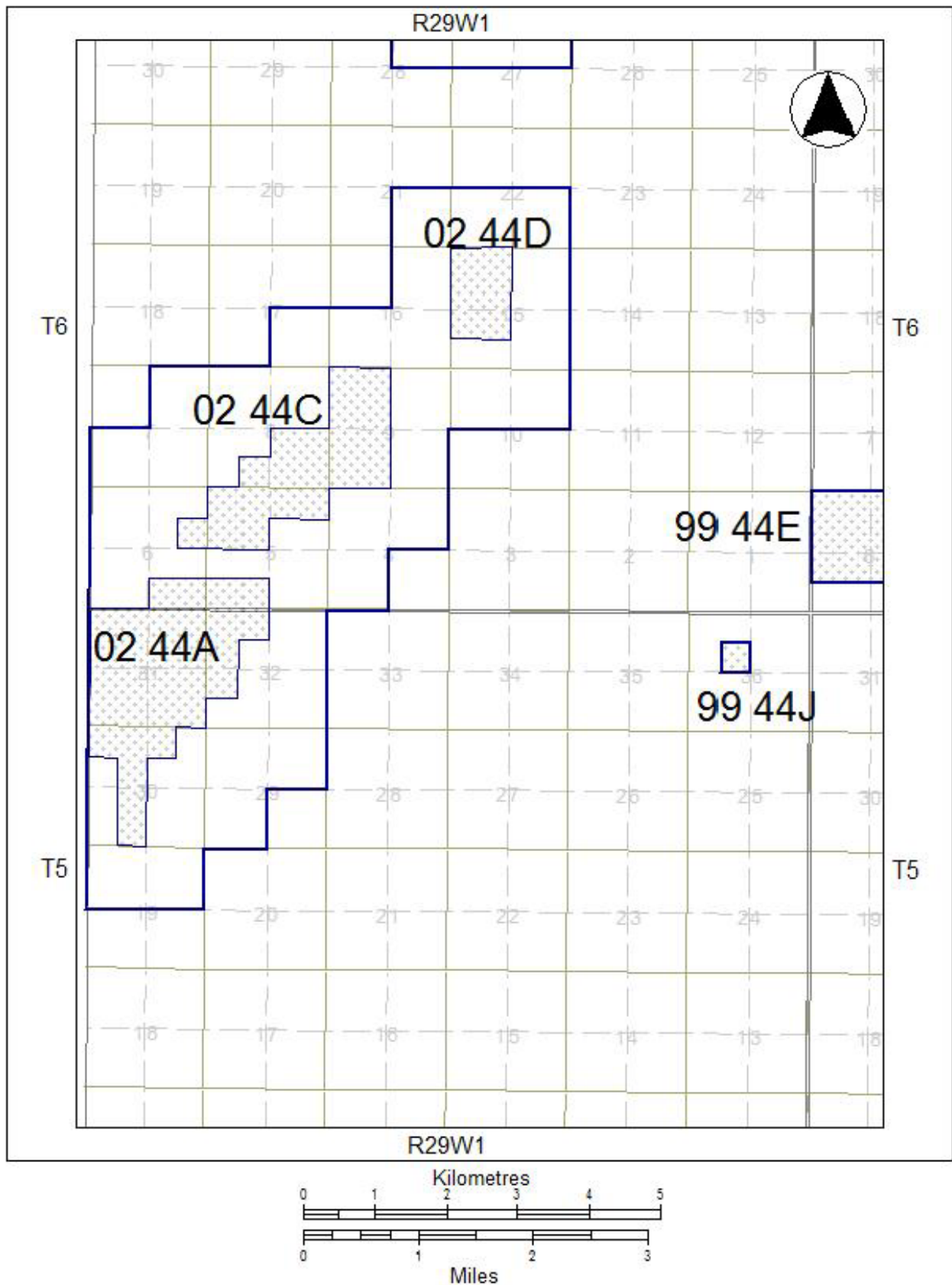


FIGURE 16 - TILSTON MISSION CANYON 1 POOLS (02 44A - 02 44D)
 (Drawn on the DLS System Quarter Section Grid)

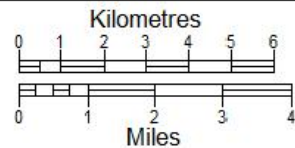
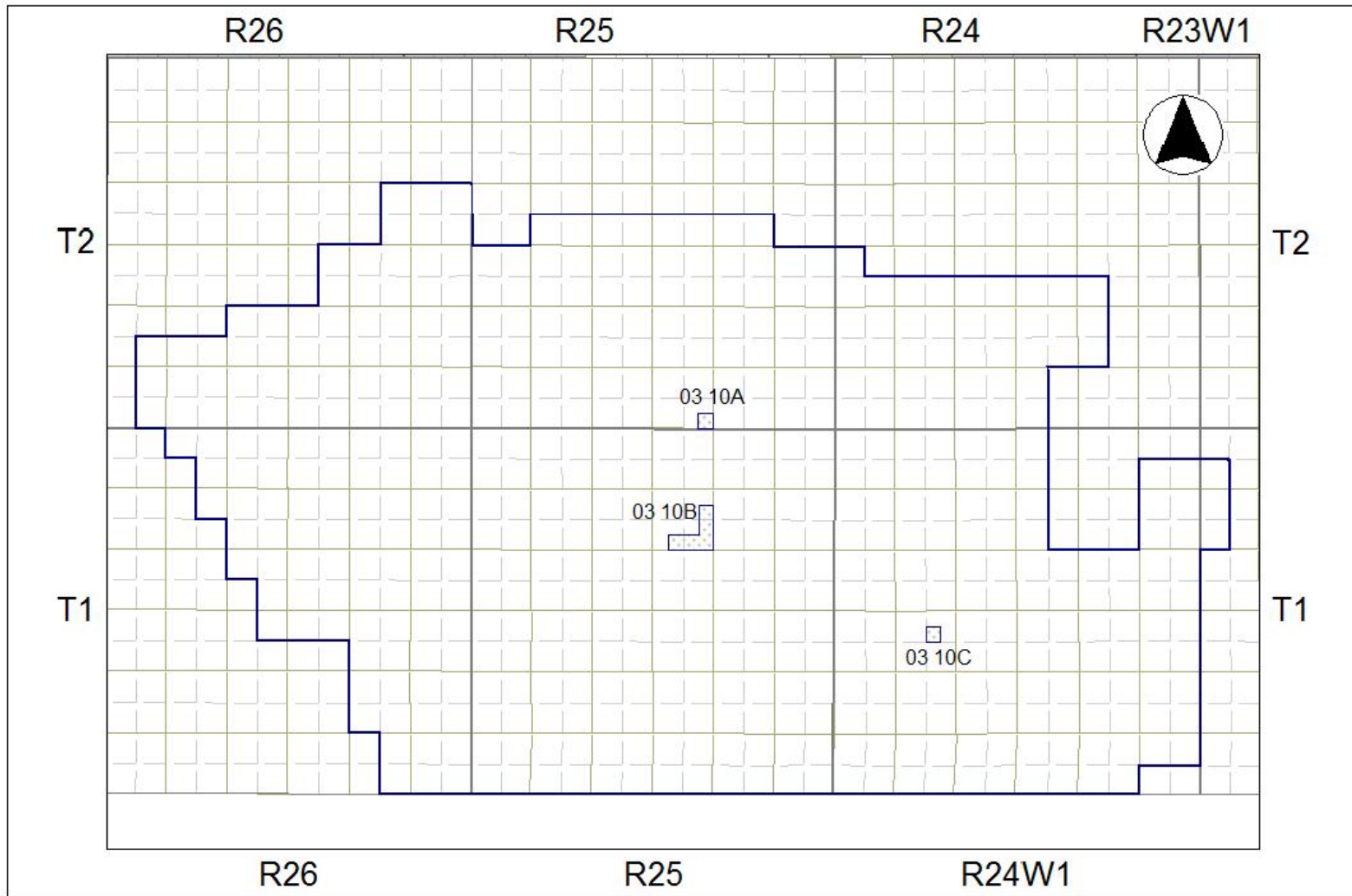


FIGURE 17 - WASKADA FAVEL POOLS (03 10A – 03 10C)
 (Drawn on the DLS System Quarter Section Grid)

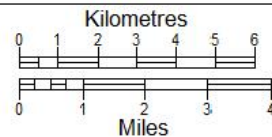
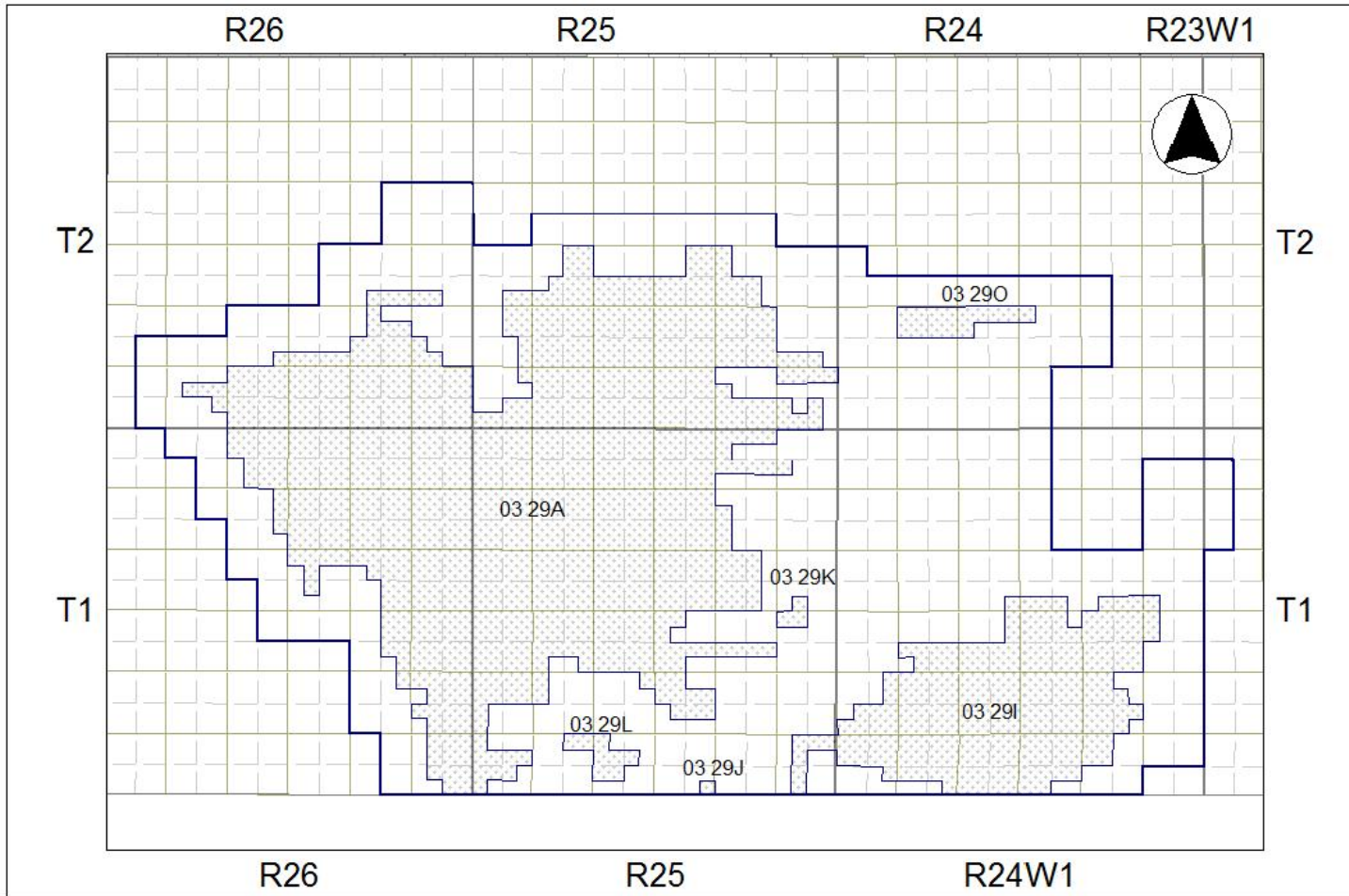


FIGURE 18 - WASKADA LOWER AMARANTH POOLS (03 29A – 03 29O)
 (Drawn on the DLS System Quarter Section Grid)

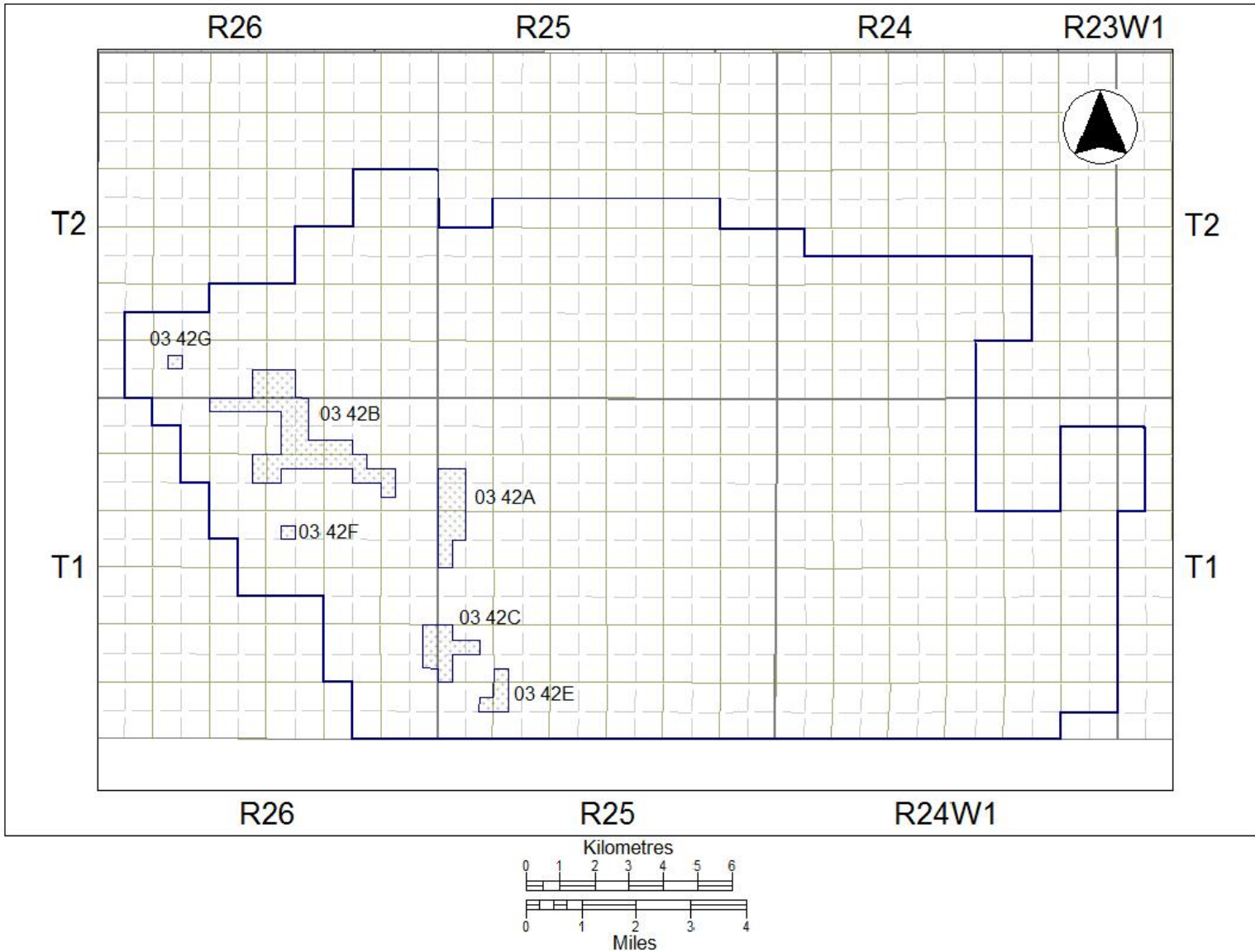


FIGURE 19 - WASKADA MISSION CANYON 3B POOLS (03 42A - 03 42G)
 (Drawn on the DLS System Quarter Section Grid)

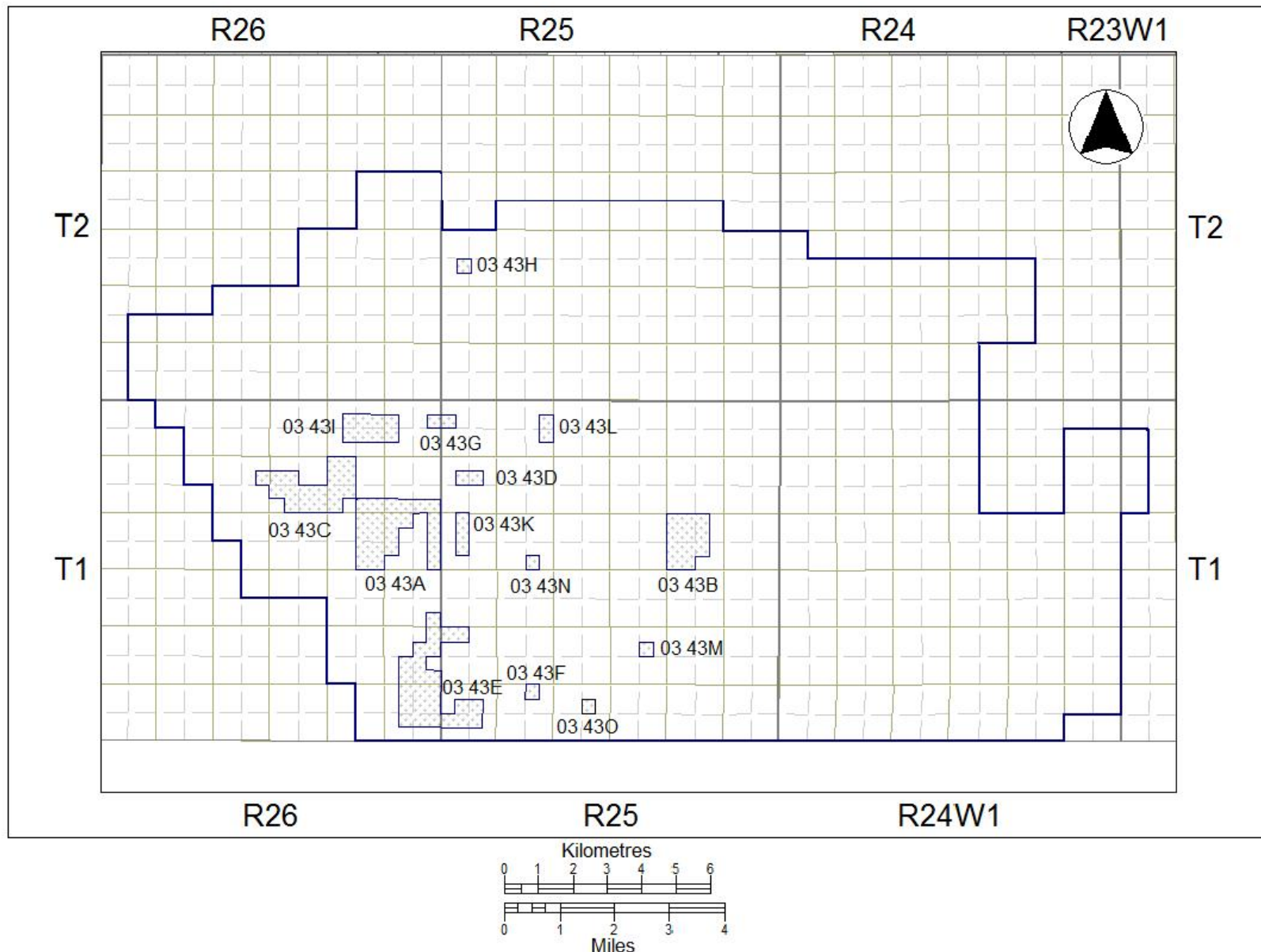


FIGURE 20 - WASKADA MISSION CANYON 3A POOLS (03 43A - 03 43M)
 (Drawn on the DLS System Quarter Section Grid)

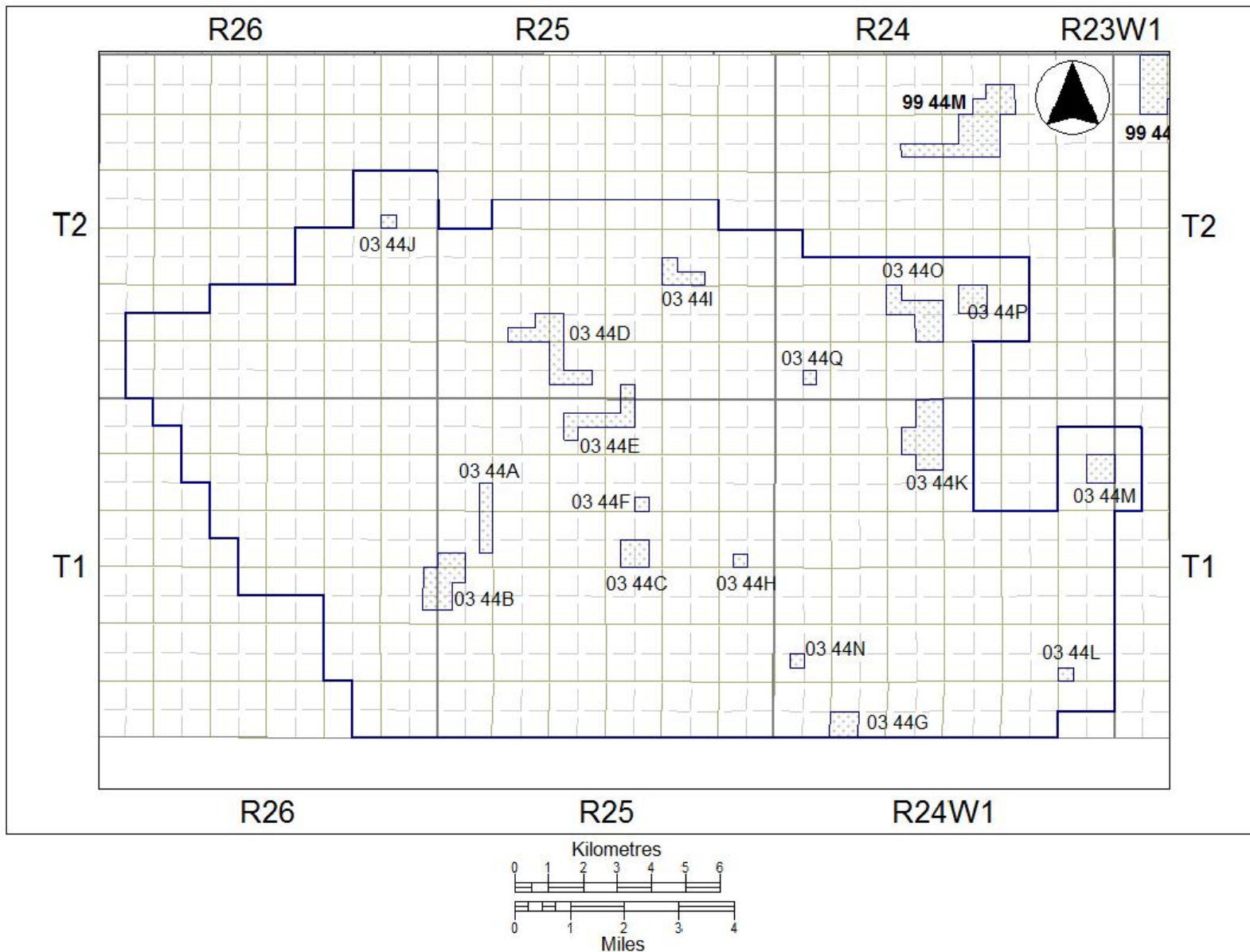


FIGURE 21 - WASKADA MISSION CANYON 1 POOLS (03 44A – 03 44Q)
 (Drawn on the DLS System Quarter Section Grid)

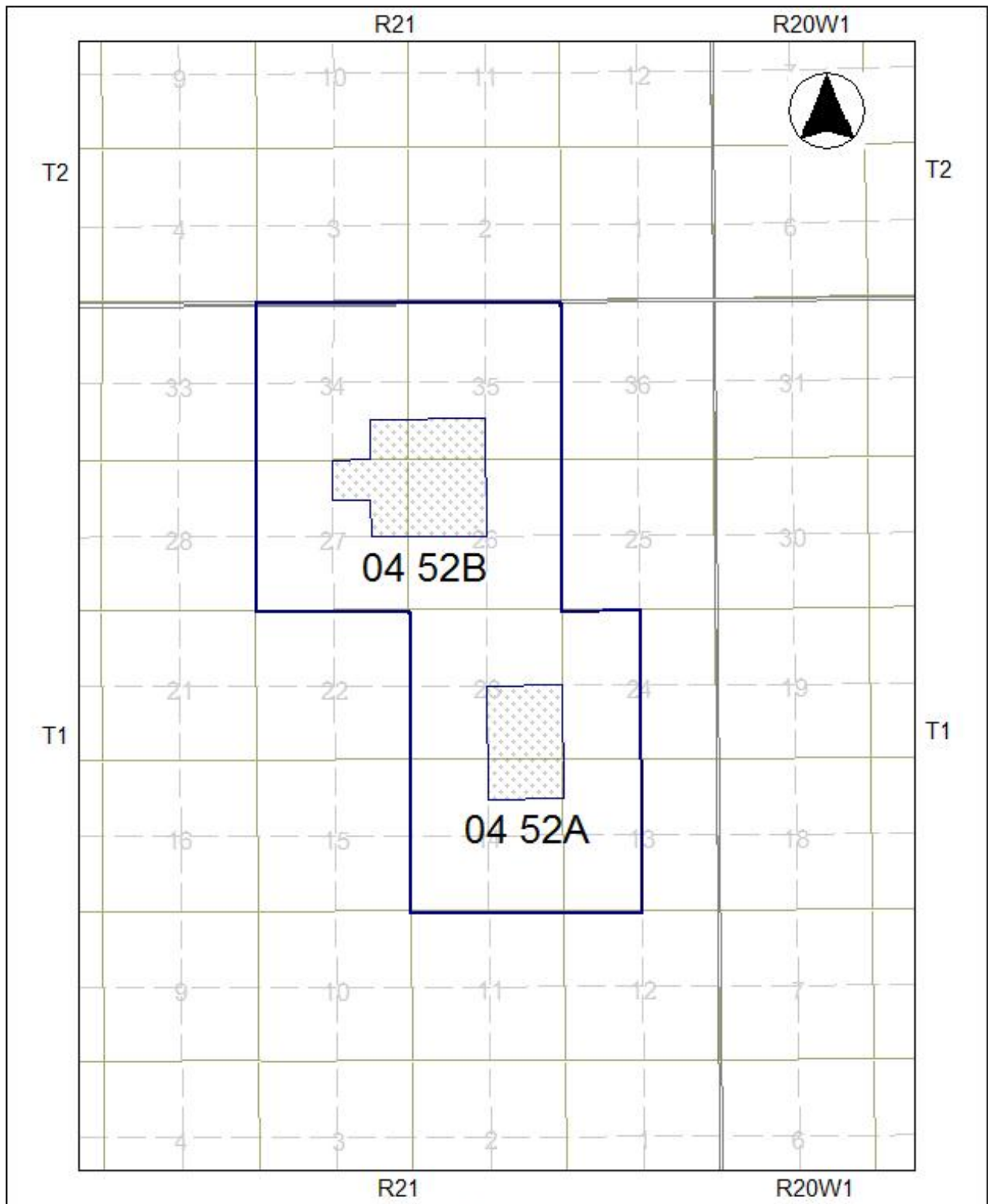


FIGURE 22 - LULU LAKE LODGEPOLE WHITEWATER LAKE POOLS (04 52A – 04 52B)
 (Drawn on the DLS System Quarter Section Grid)

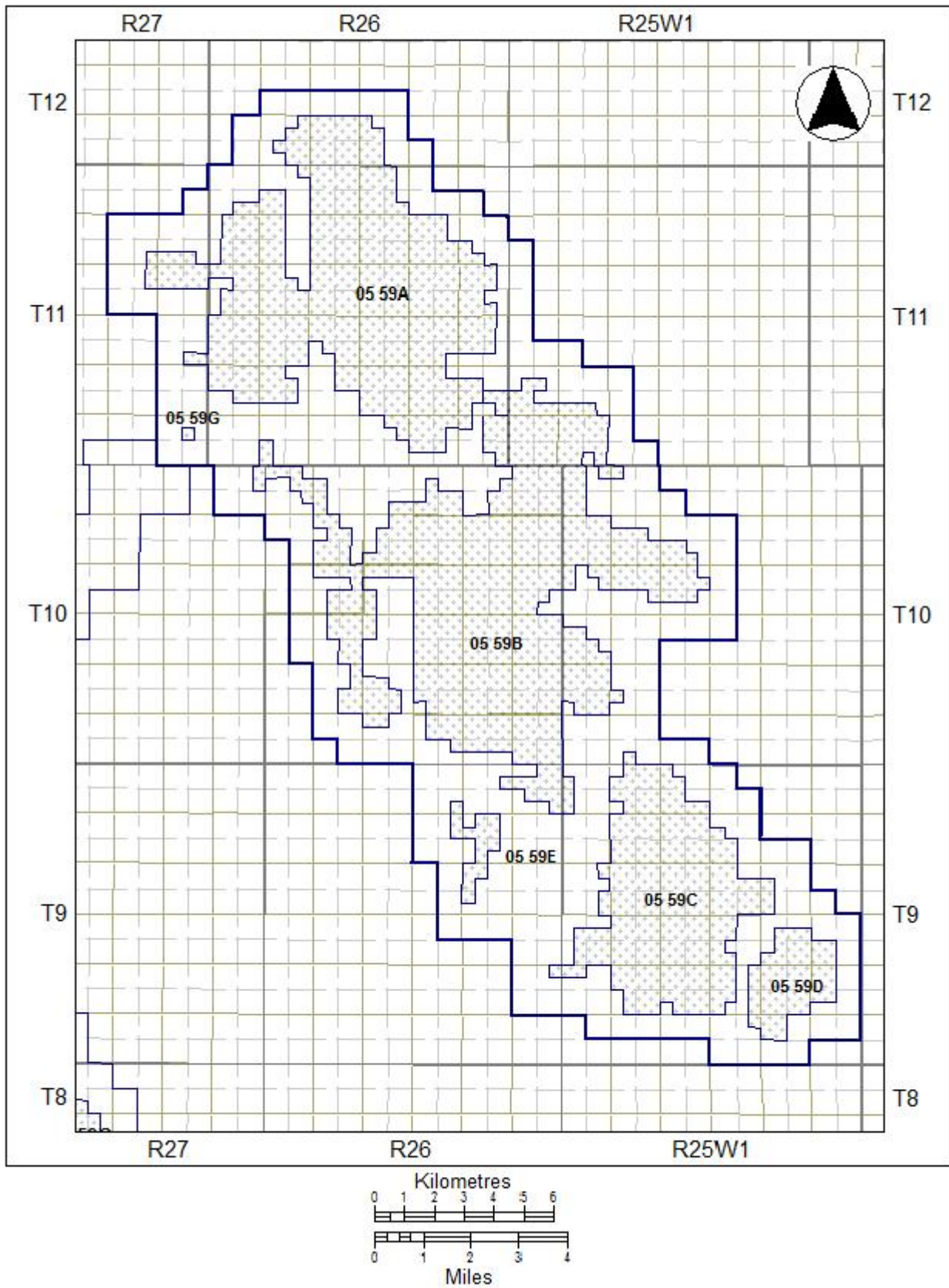


FIGURE 23 - VIRDEN LODGEPOLE POOLS (05 59A – 05 59G)
 (Drawn on the DLS System Quarter Section Grid)

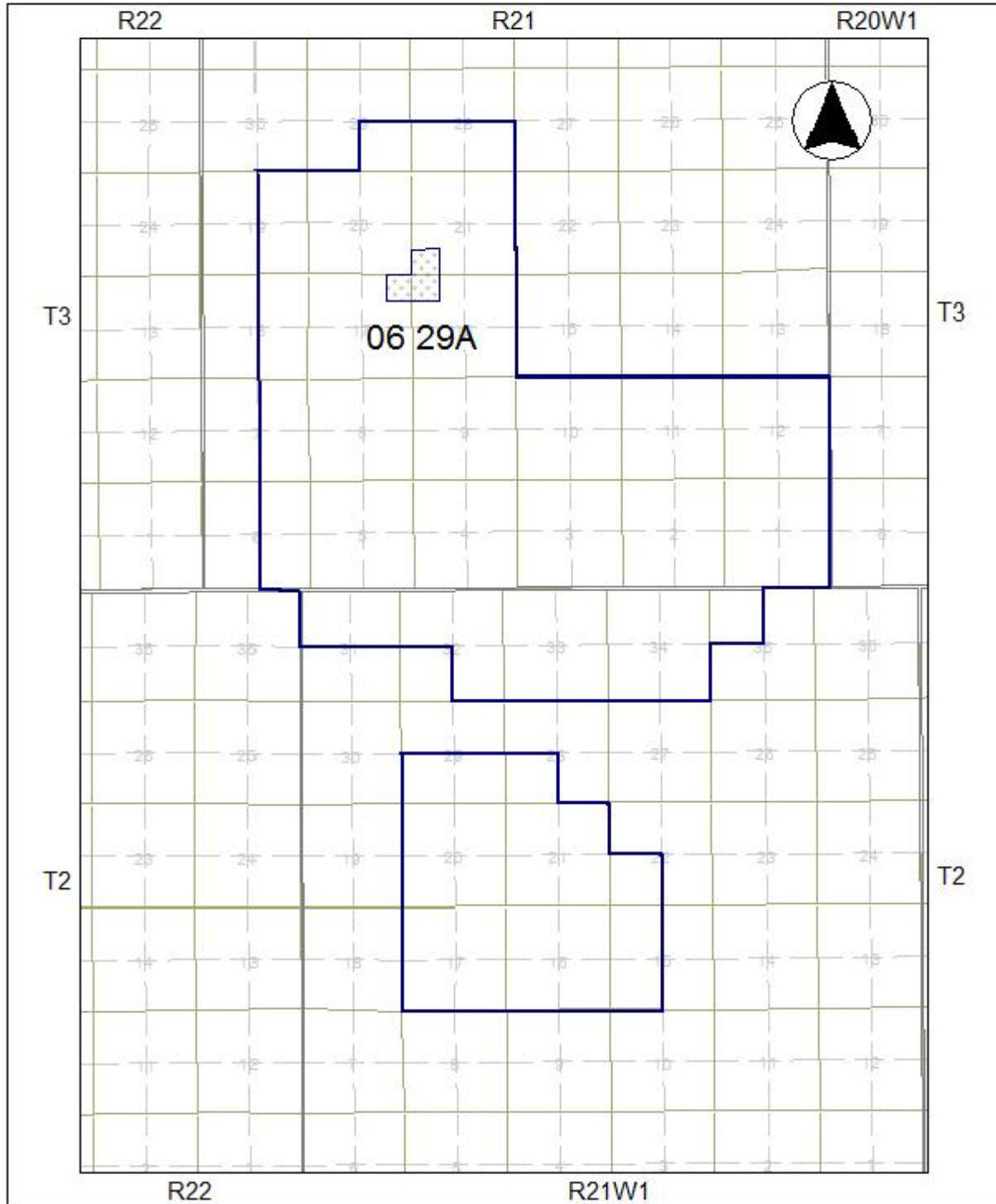


FIGURE 24 - WHITEWATER LOWER AMARANTH A POOL (06 29A)
 (Drawn on the DLS System Quarter Section Grid)

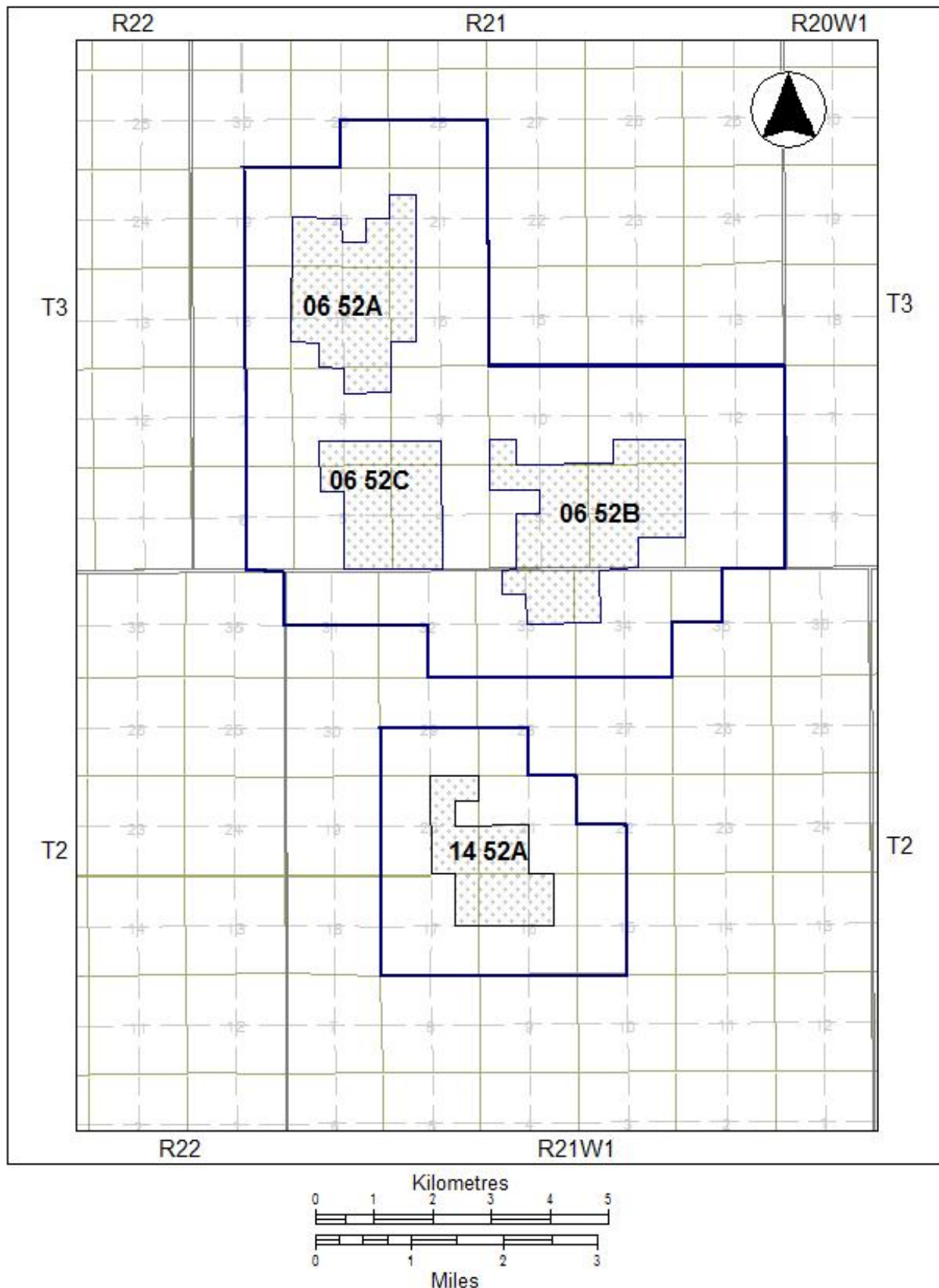


FIGURE 25 - WHITEWATER & MOUNTAINSIDE LODGEPOLE WHITEWATER LAKE POOLS (06 52A - 06 52C & 14 52A) (Drawn on the DLS System Quarter Section Grid)

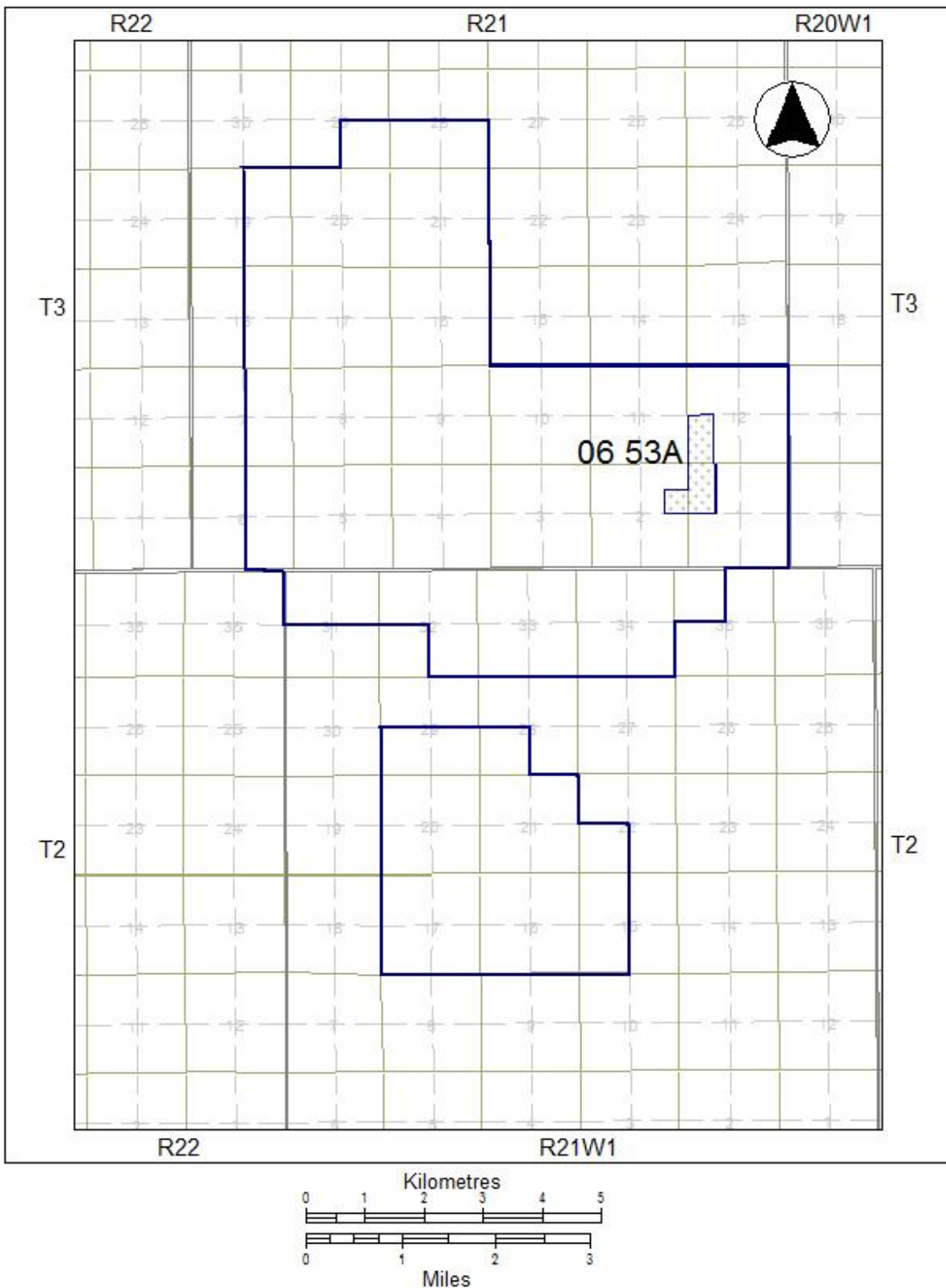


FIGURE 26 - WHITEWATER LODGEPOLE VIRDEN POOL (06 53A)
 (Drawn on the DLS System Quarter Section Grid)

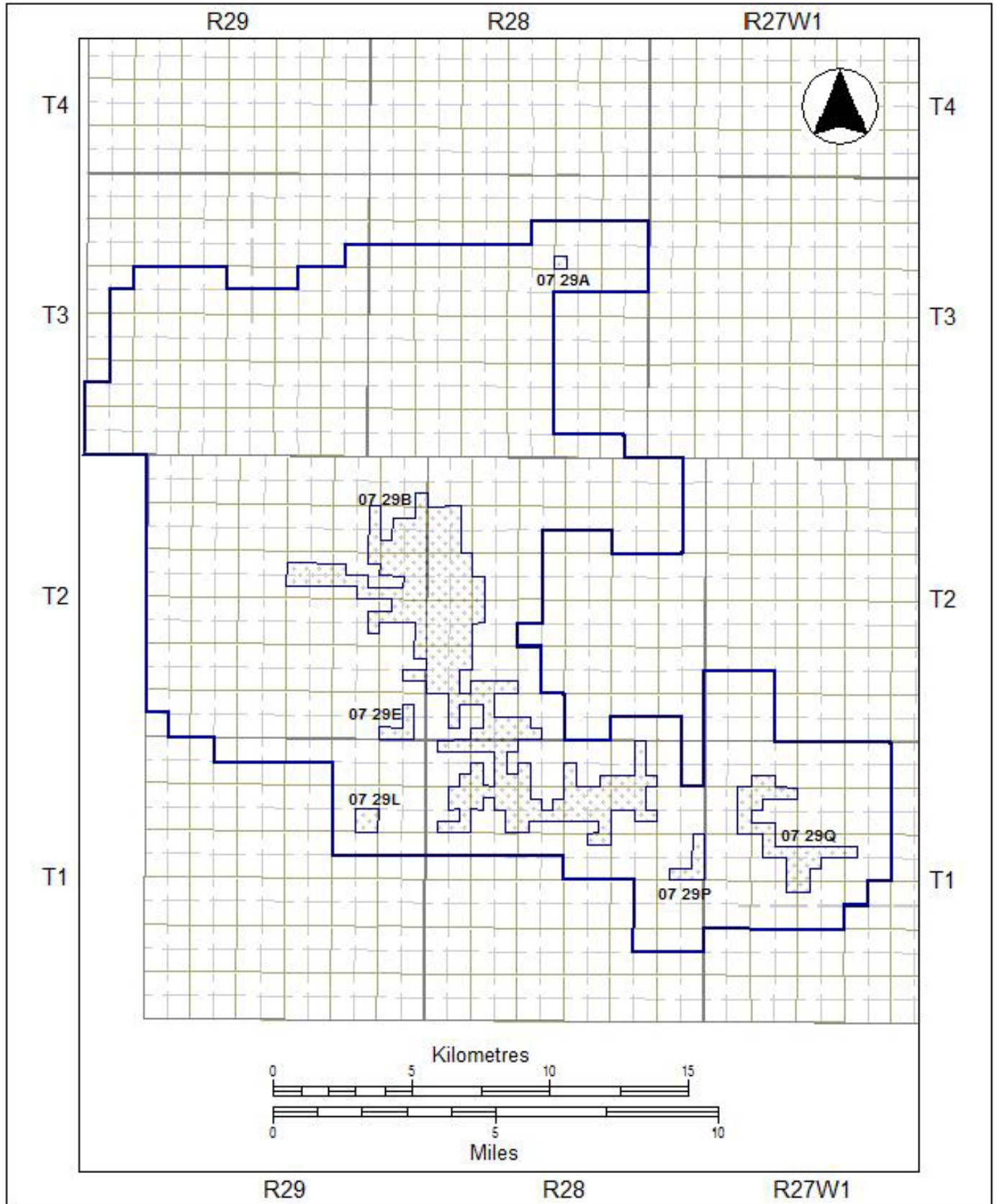


FIGURE 27 - PIERSON LOWER AMARANTH POOLS (07 29A – 07 29Q)
 (Drawn on the DLS System Quarter Section Grid)

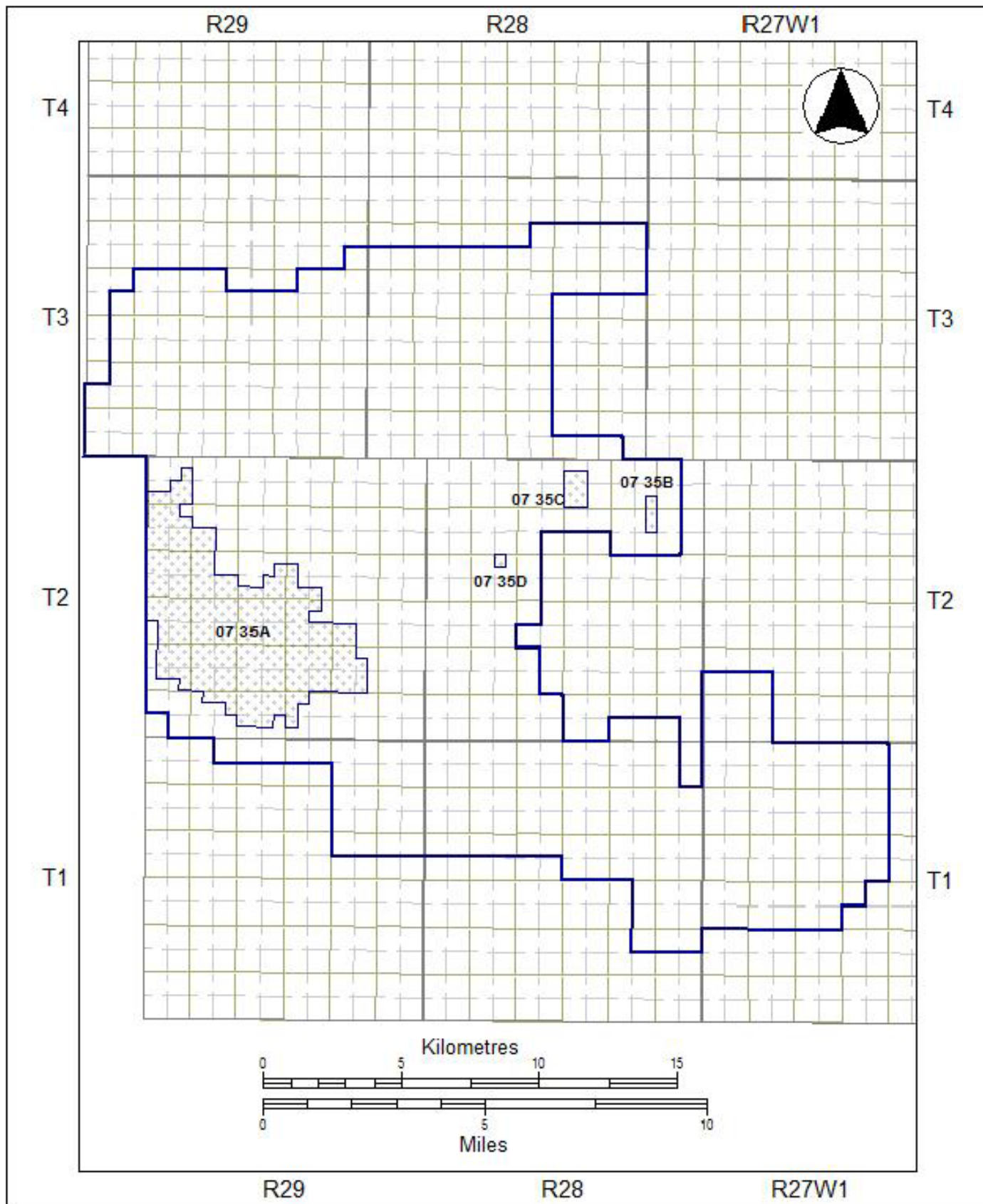


FIGURE 28 - PIERSON LOWER AMARANTH – MISSION CANYON 3B POOLS (07 35A – 07 35D) (Drawn on the DLS System Quarter Section Grid)

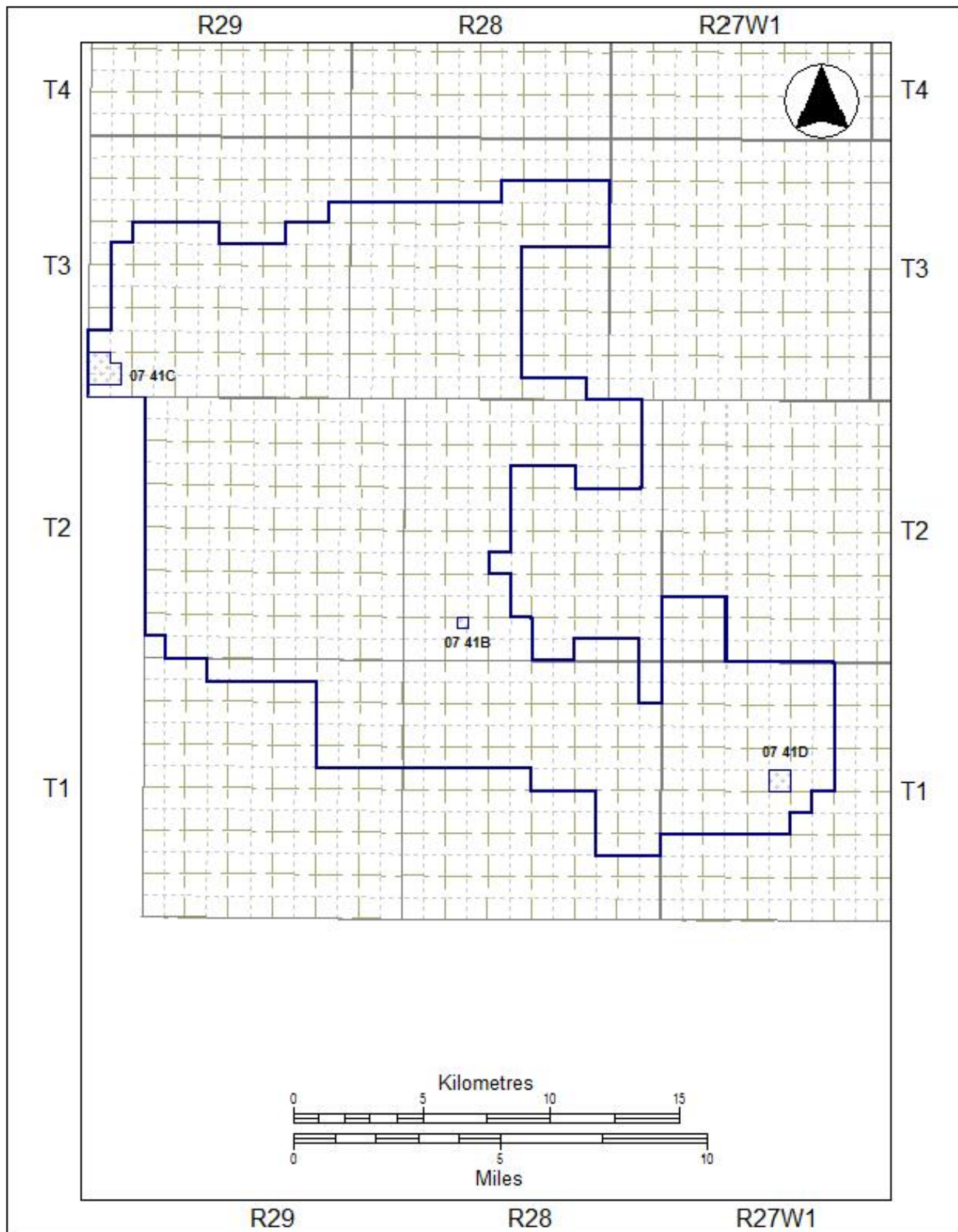


FIGURE 29 - PIERSON MISSION CANYON 3 POOLS (07 41B & 07 41D)
 (Drawn on the DLS System Quarter Section Grid)

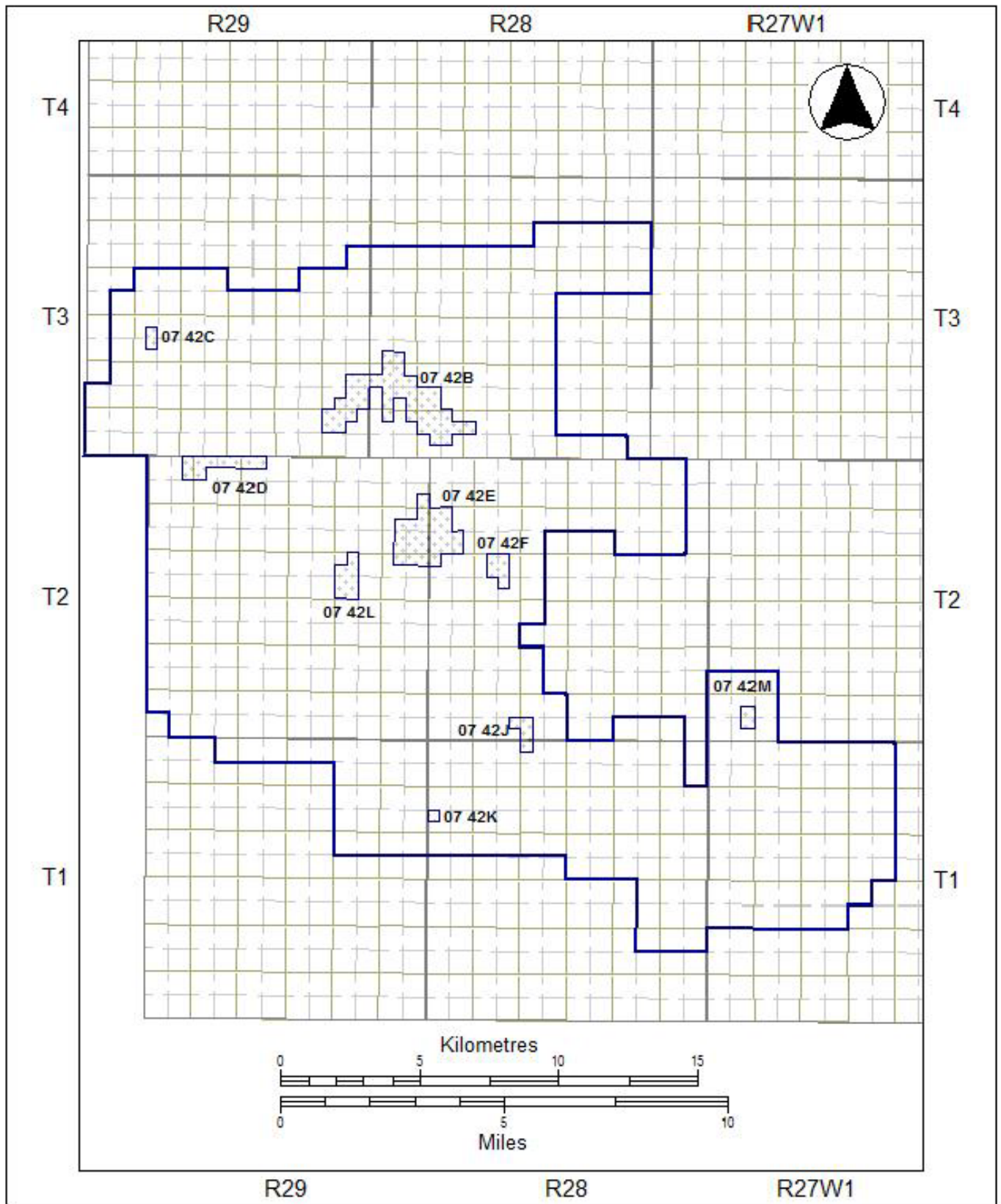


FIGURE 30 - PIERSON MISSION CANYON 3b POOLS (07 42B – 07 42M)
 (Drawn on the DLS System Quarter Section Grid)

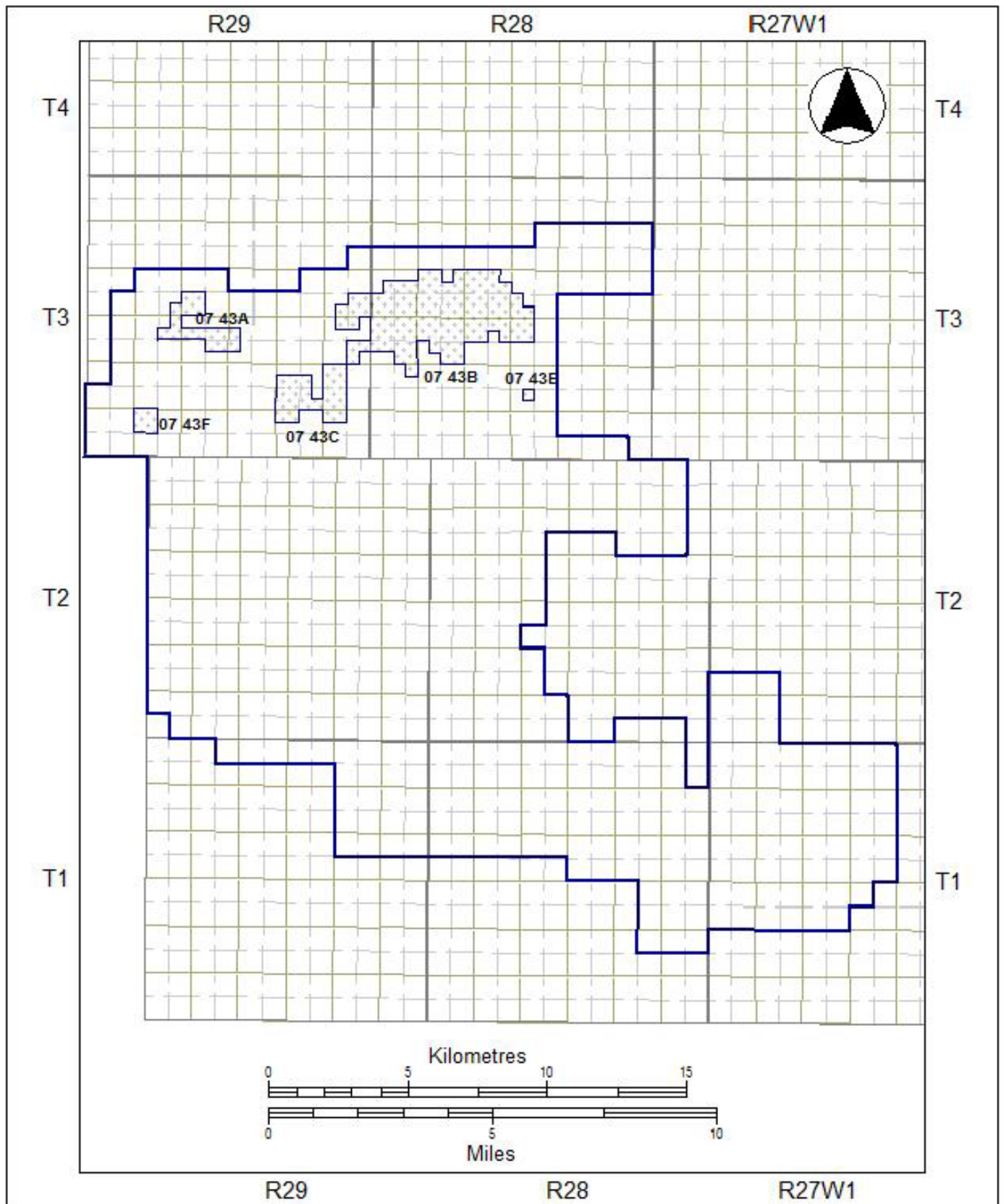


FIGURE 31 - PIERSON MISSION CANYON 3a POOLS (07 43A – 07 43F)
 (Drawn on the DLS System Quarter Section Grid)

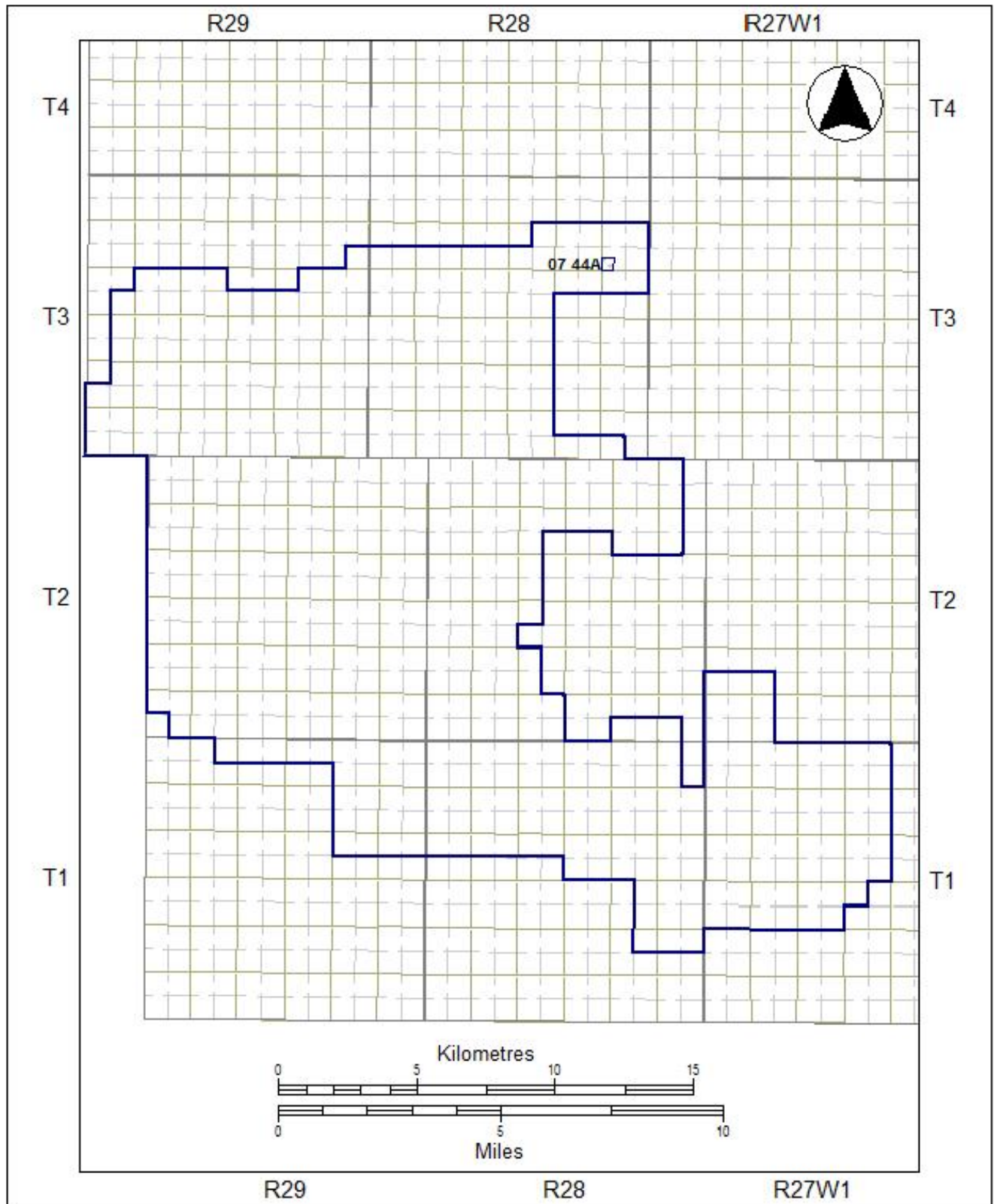


FIGURE 32 - PIERSON MISSION CANYON 1A POOL (07 44A)
 (Drawn on the DLS System Quarter Section Grid)

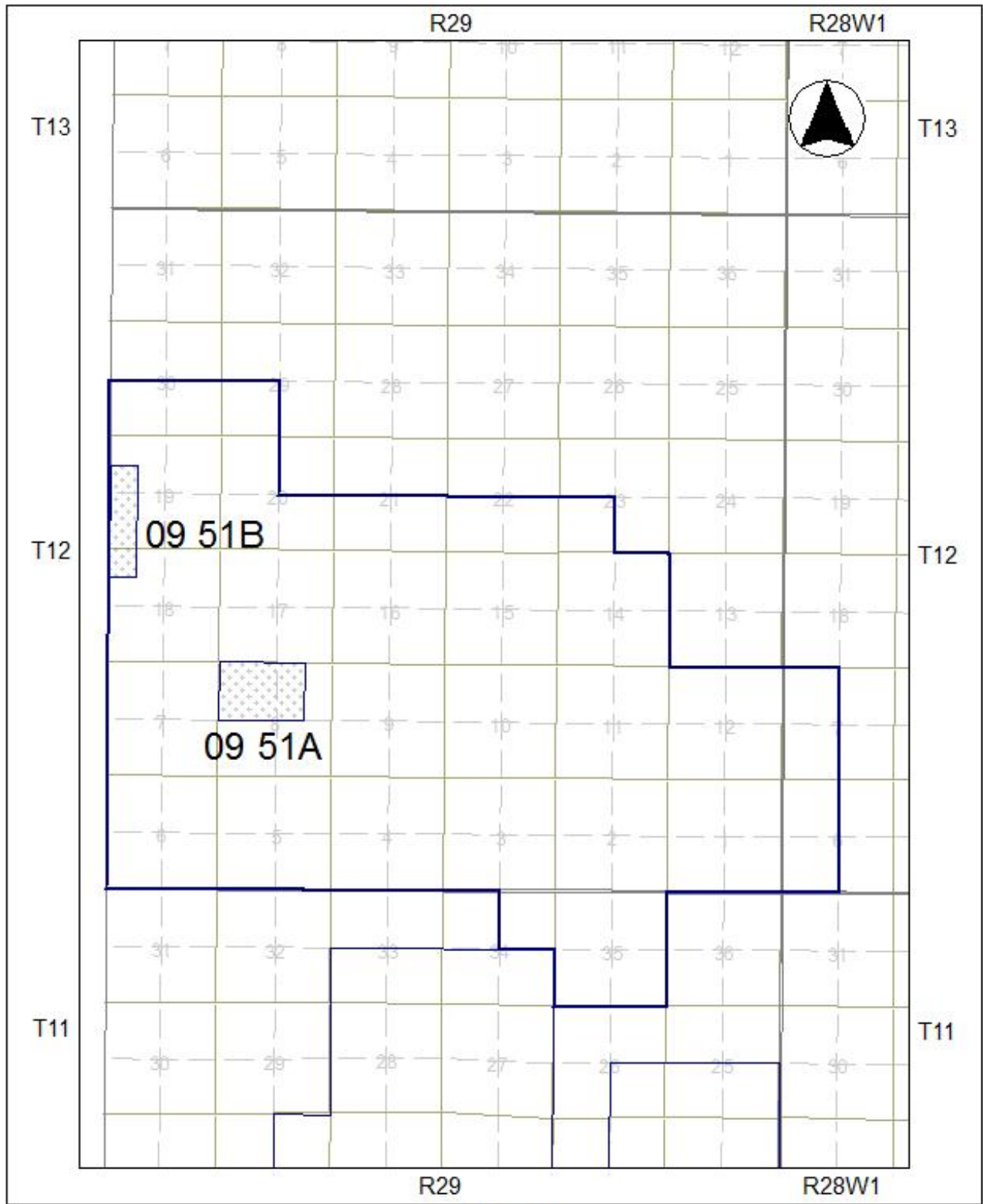


FIGURE 33 - KIRKELLA LODGEPOLE DOLOMITE POOLS (09 51A – 09 51B)
 (Drawn on the DLS System Quarter Section Grid)

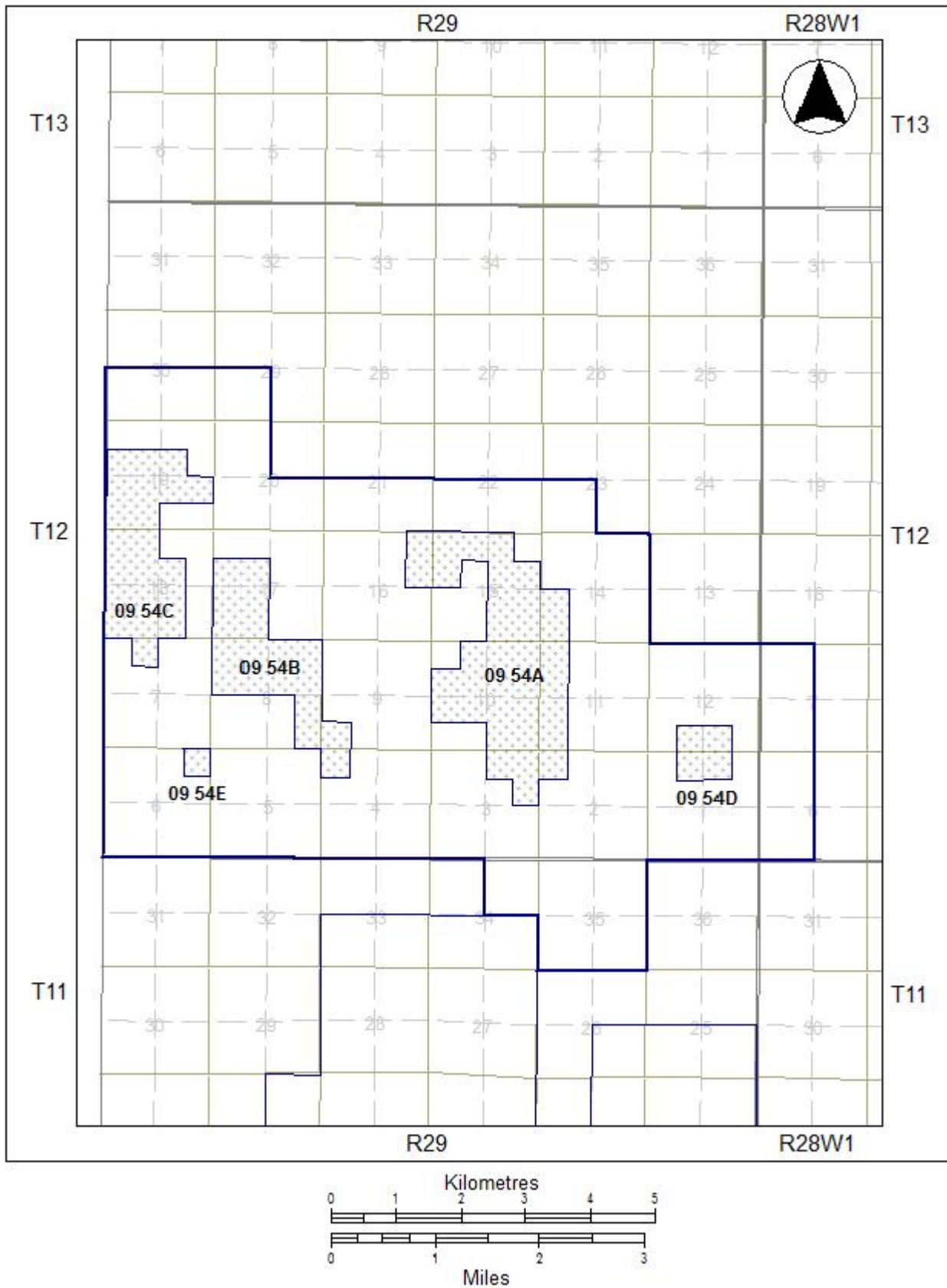


FIGURE 34 - KIRKELLA LODGEPOLE DALY POOLS (09 54A – 09 54E)
 (Drawn on the DLS System Quarter Section Grid)

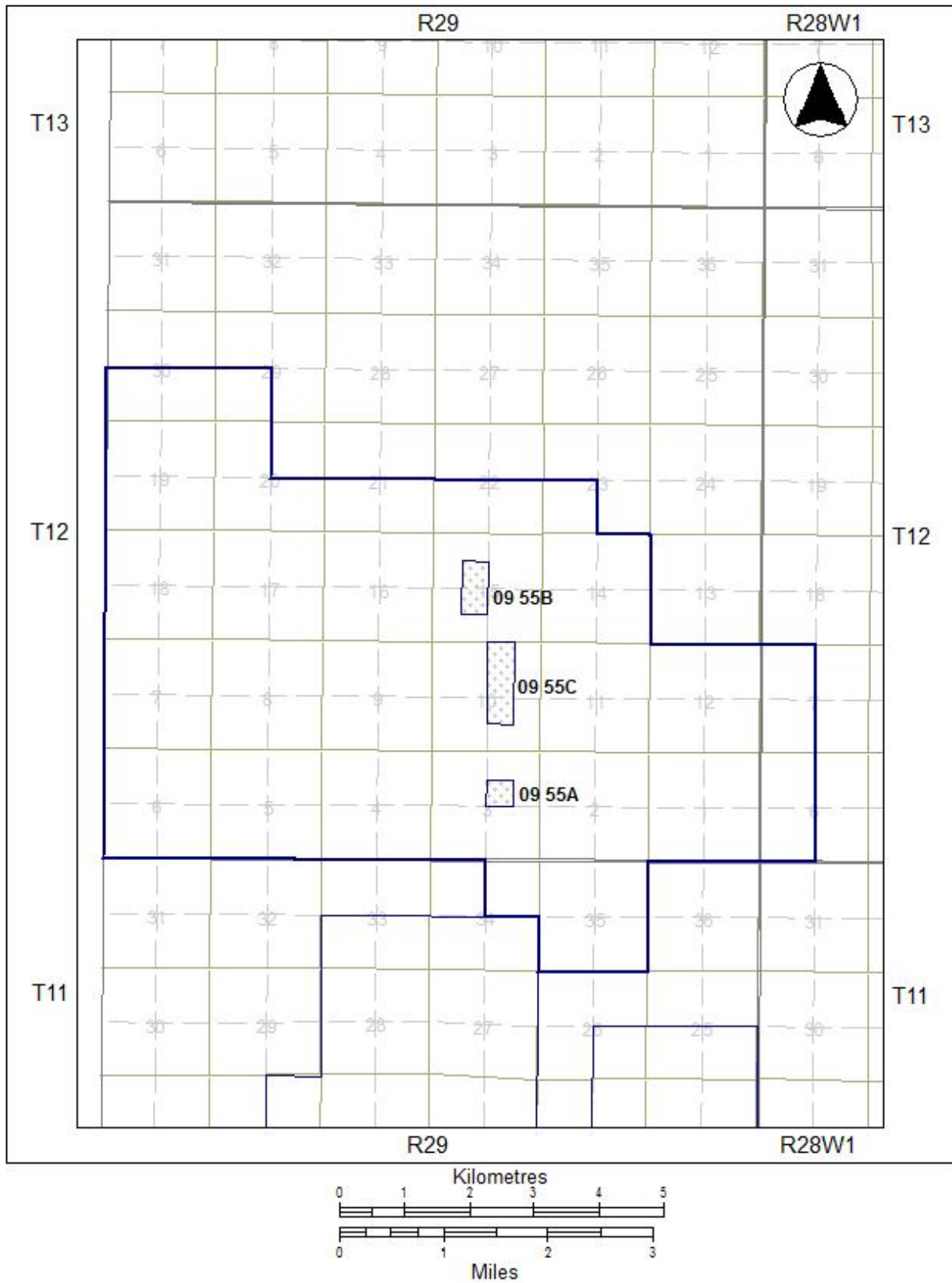


FIGURE 35 - KIRKELLA LODGEPOLE CRINOIDAL POOLS (09 55A – 09 55C)
 (Drawn on the DLS System Quarter Section Grid)

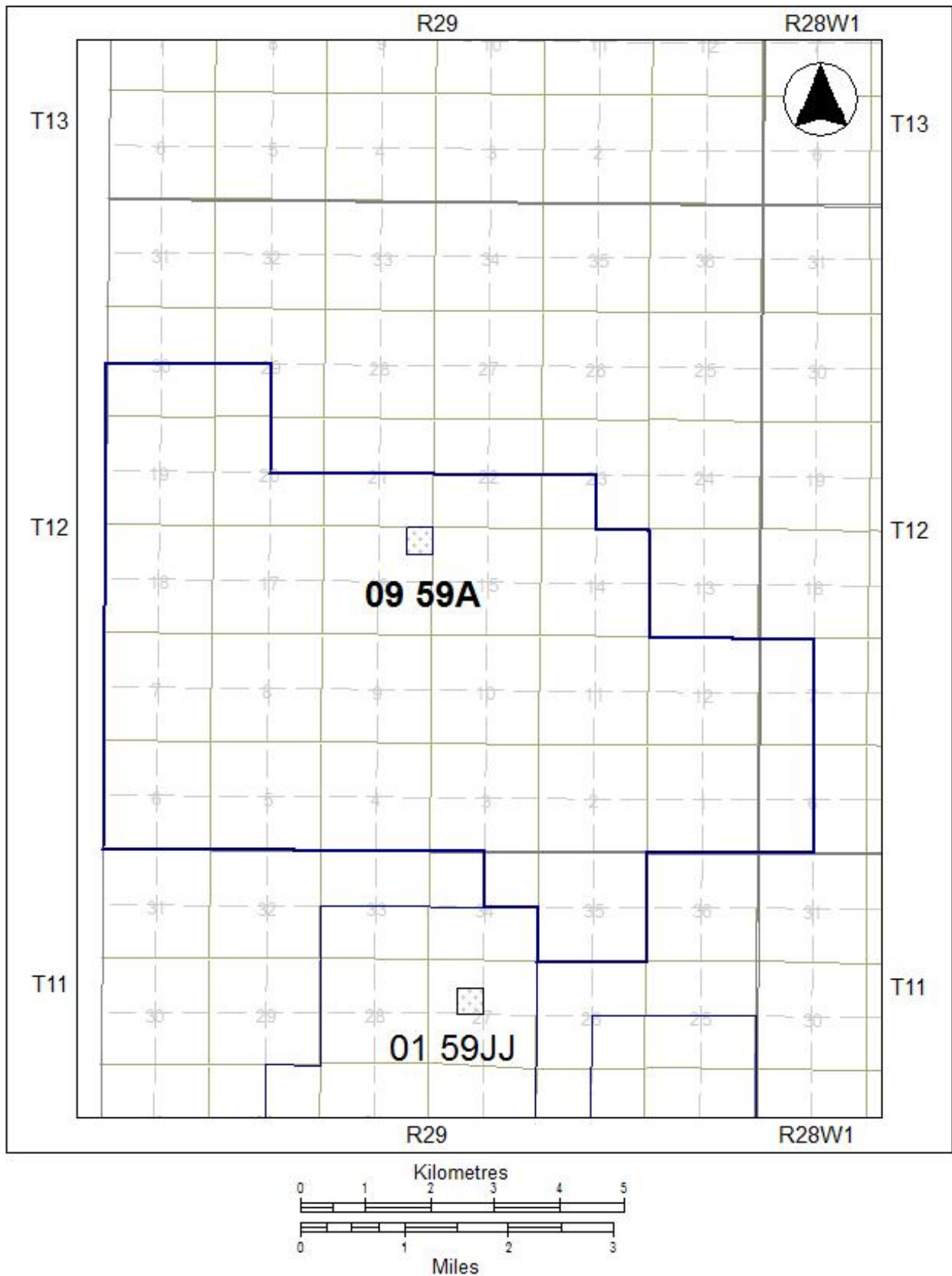


FIGURE 36 - KIRKELLA LODGEPOLE POOLS (09 59A)
 (Drawn on the DLS System Quarter Section Grid)

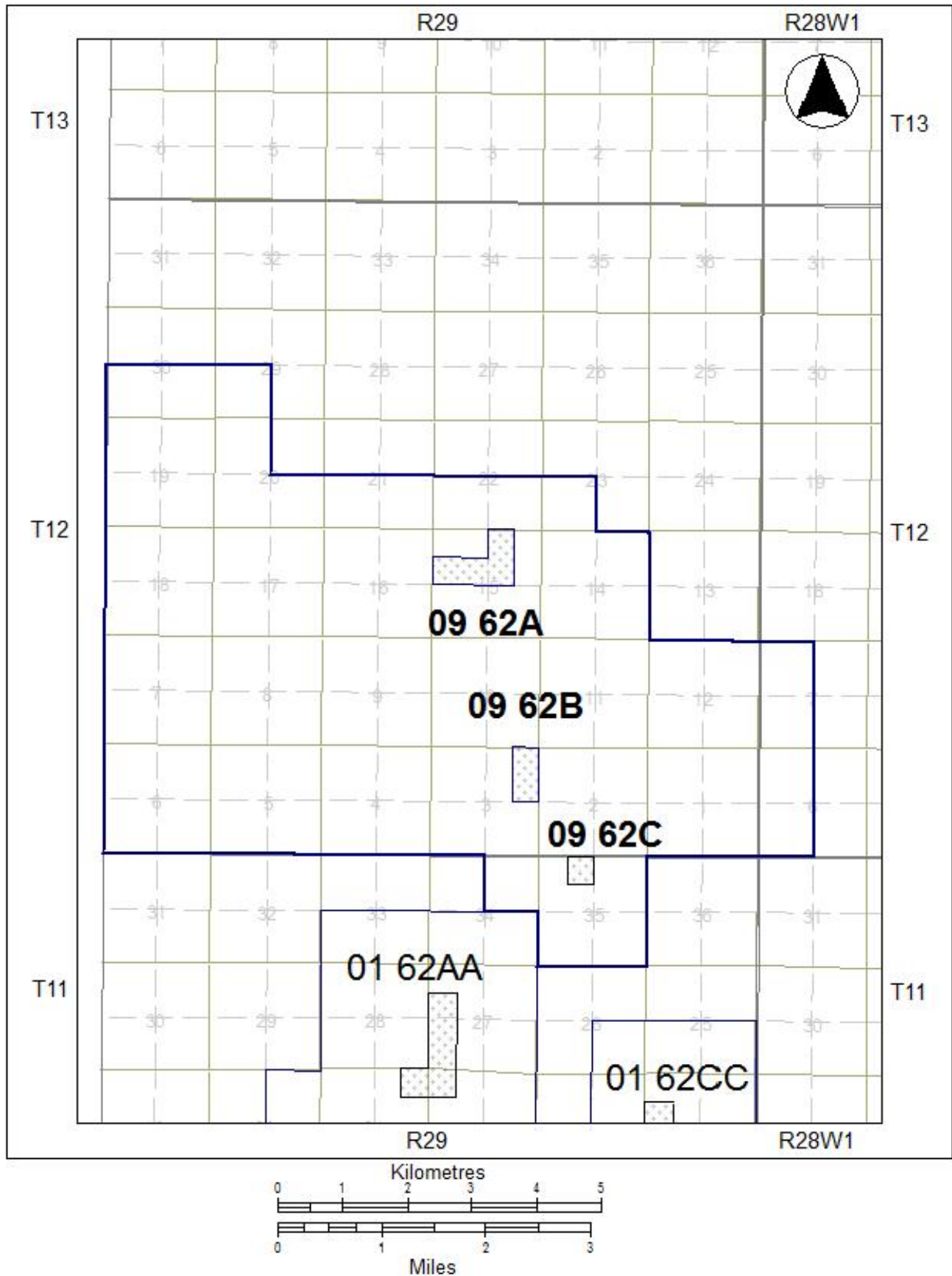


FIGURE 37 - KIRKELLA BAKKEN – THREE FORKS POOLS (09 62A - 09 62C)
 (Drawn on the DLS System Quarter Section Grid)

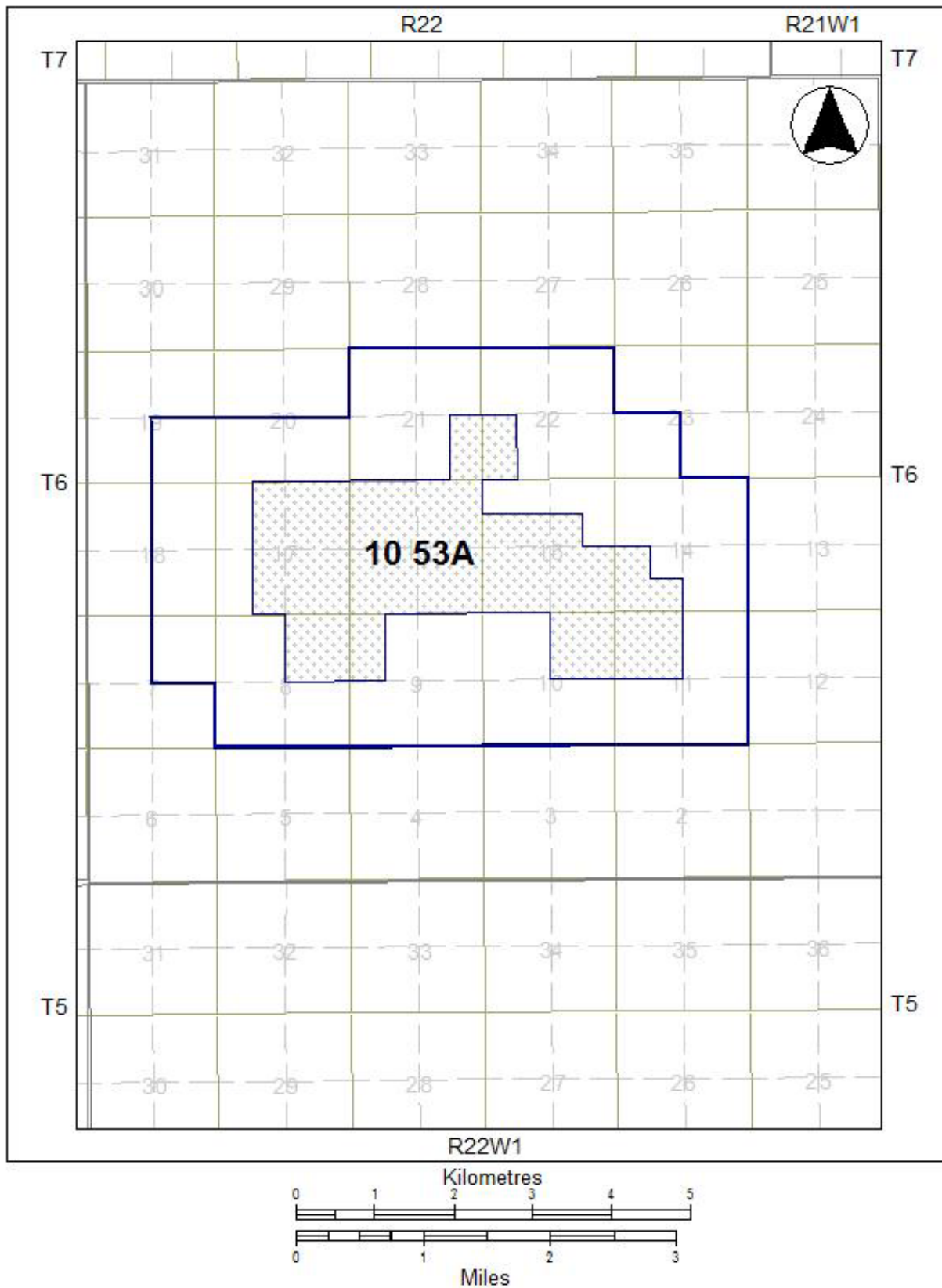


FIGURE 38 - SOURIS HARTNEY LODGEPOLE VIRDEN A POOL (10 53A)
 (Drawn on the DLS System Quarter Section Grid)

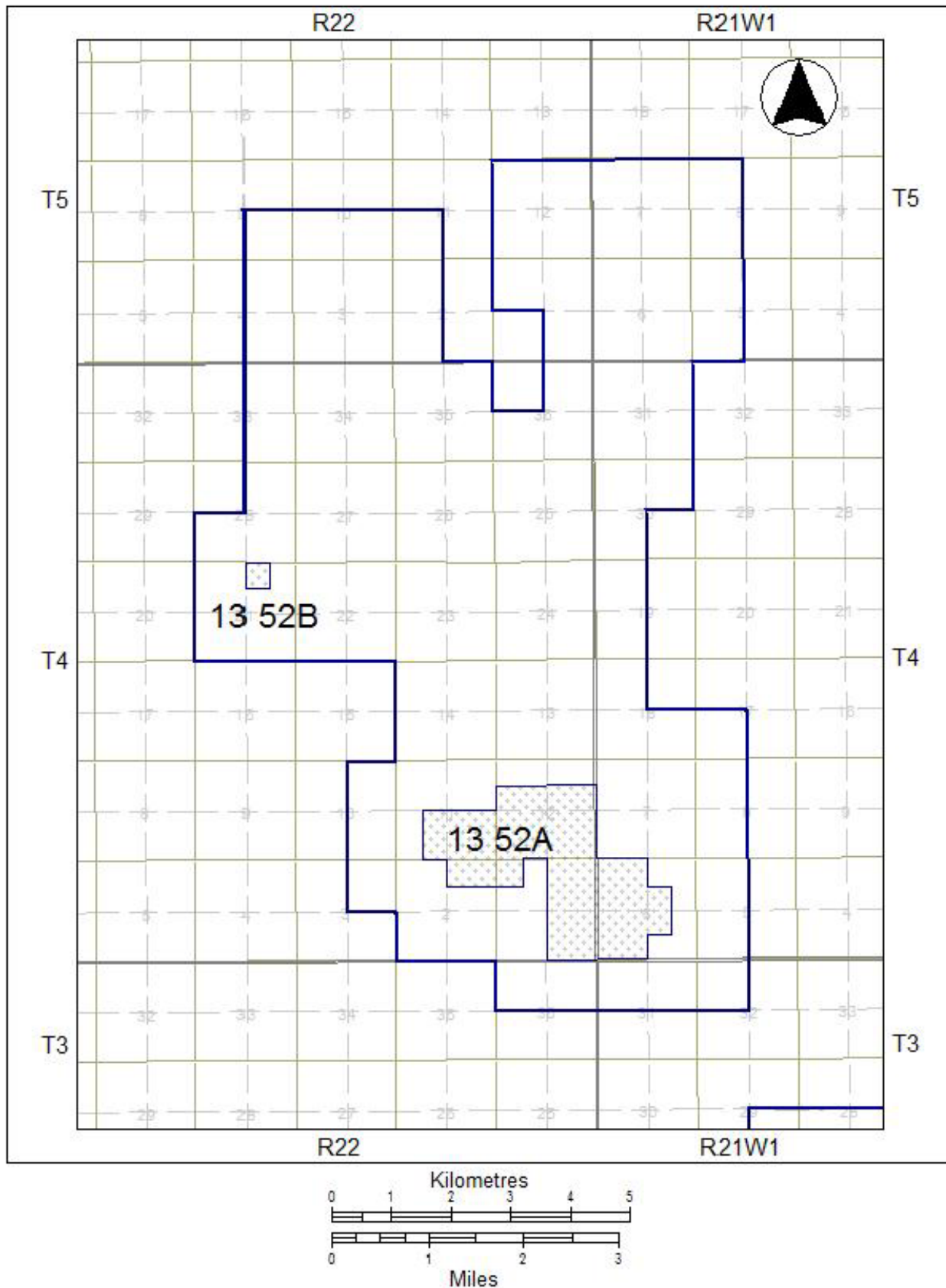


FIGURE 39 - REGENT LODGEPOLE WHITEWATER LAKE POOLS (13 52A-13 52B) (Drawn on the DLS System Quarter Section Grid)

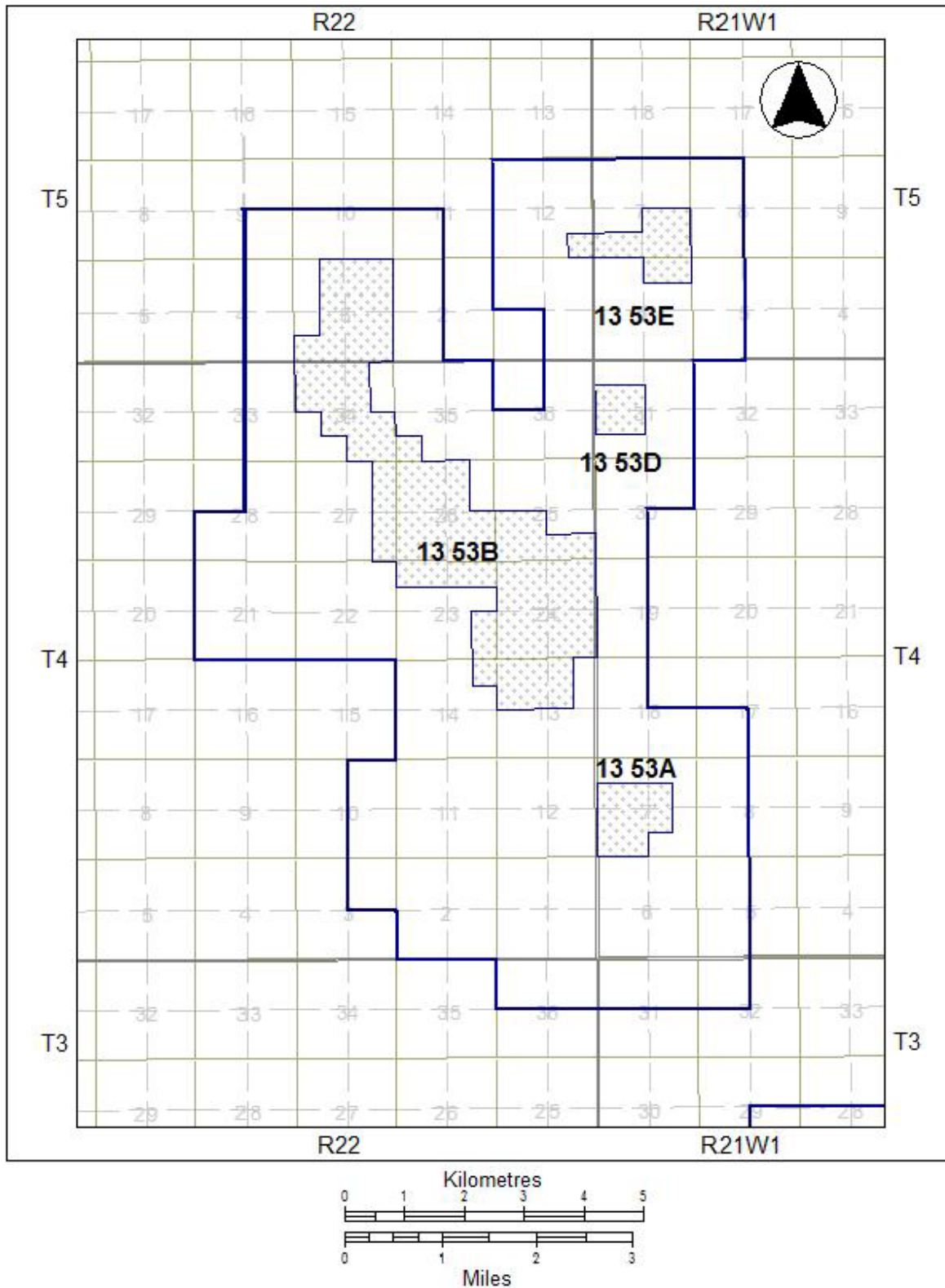


FIGURE 40 - REGENT LODGEPOLE VIRDEN POOLS (13 53A - 13 53E)
 (Drawn on the DLS System Quarter Section Grid)

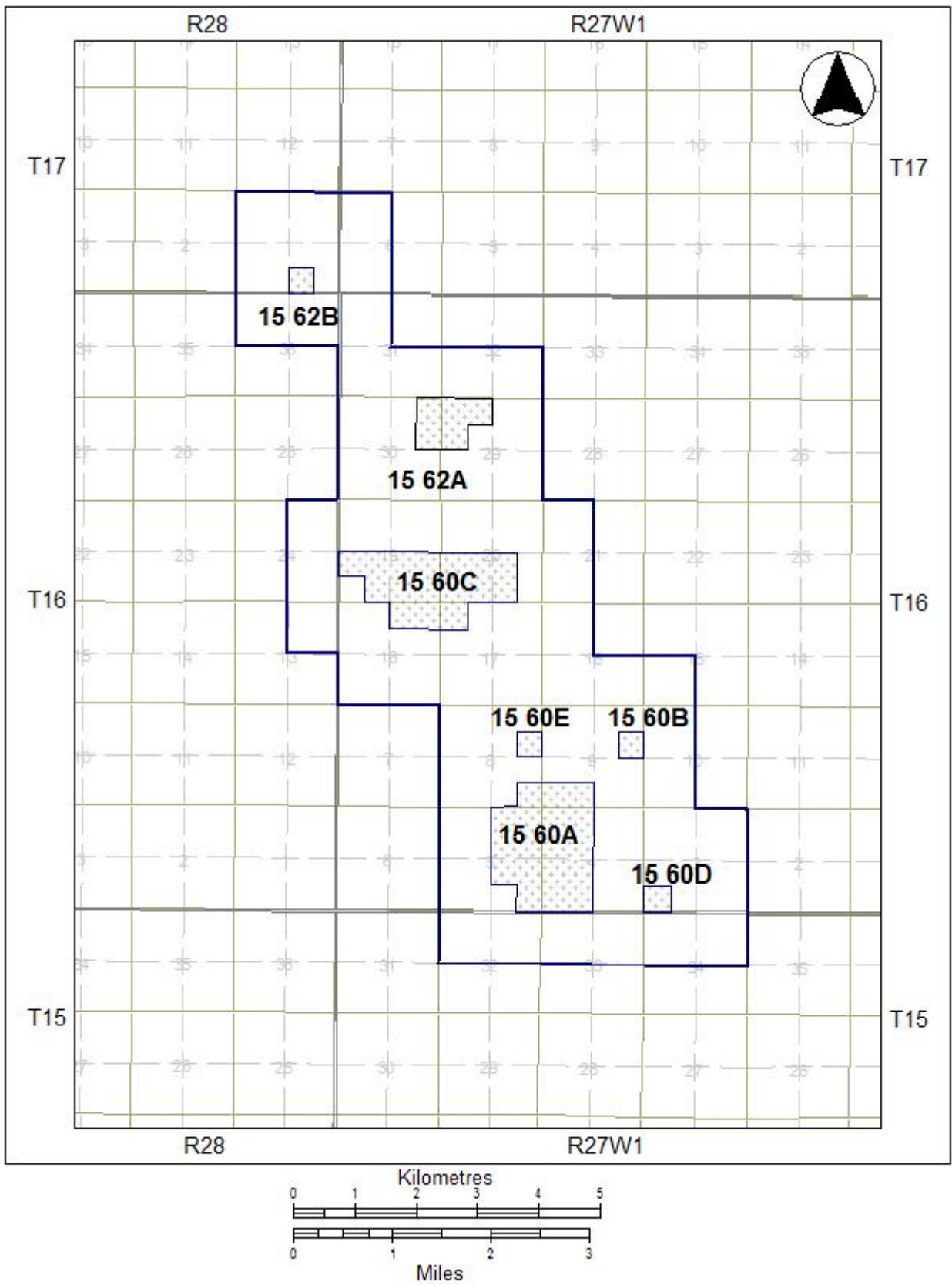


FIGURE 41 - BIRDTAIL BAKKEN & BAKKEN-THREE FORKS POOLS (15 60A – 15 60E & 15 62A - 15 62B) (Drawn on the DLS System Quarter Section Grid)

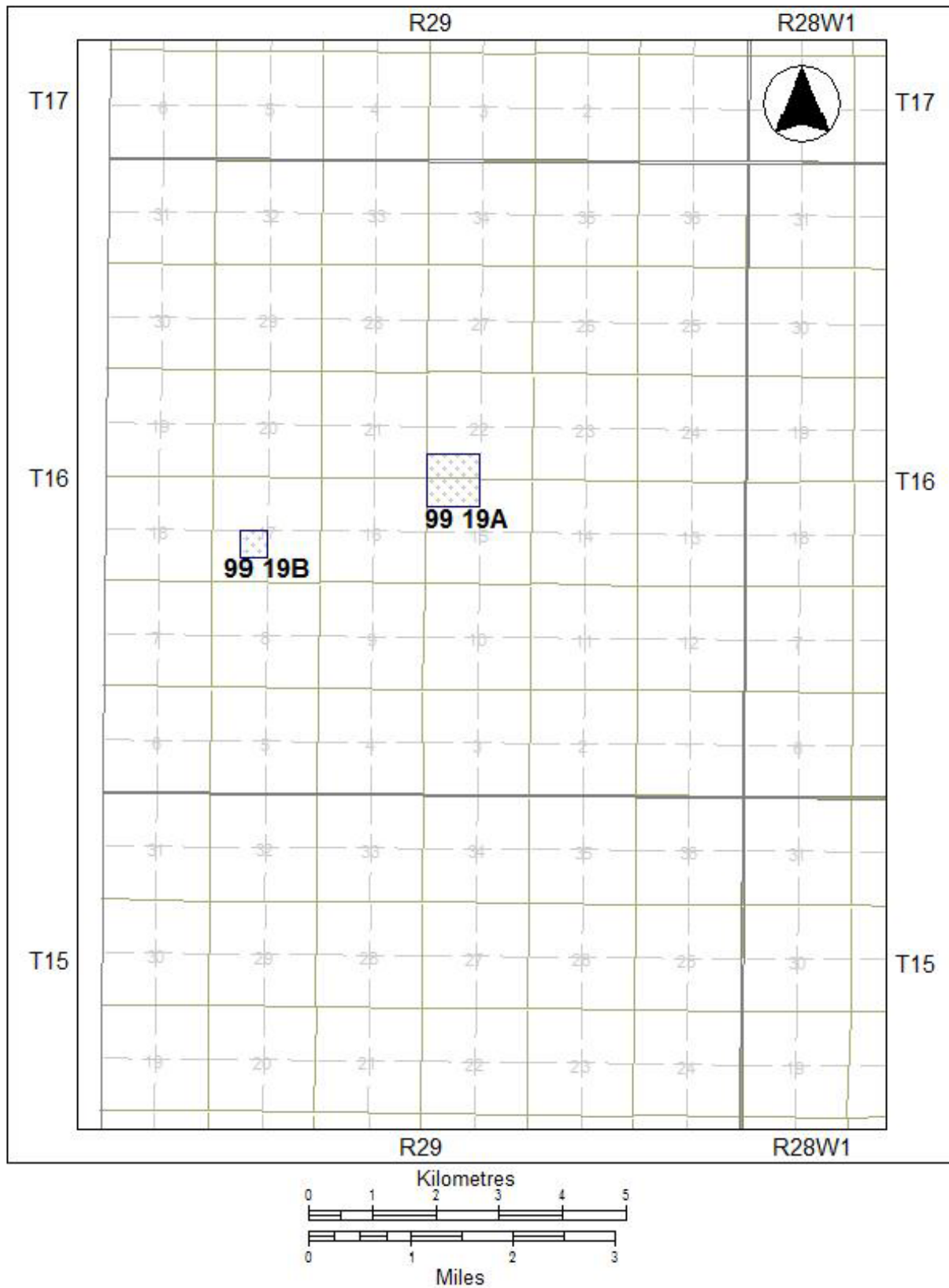


FIGURE 42 - OTHER AREAS MELITA A POOL (99 19A & 99 19B)
 (Drawn on the DLS System Quarter Section Grid)

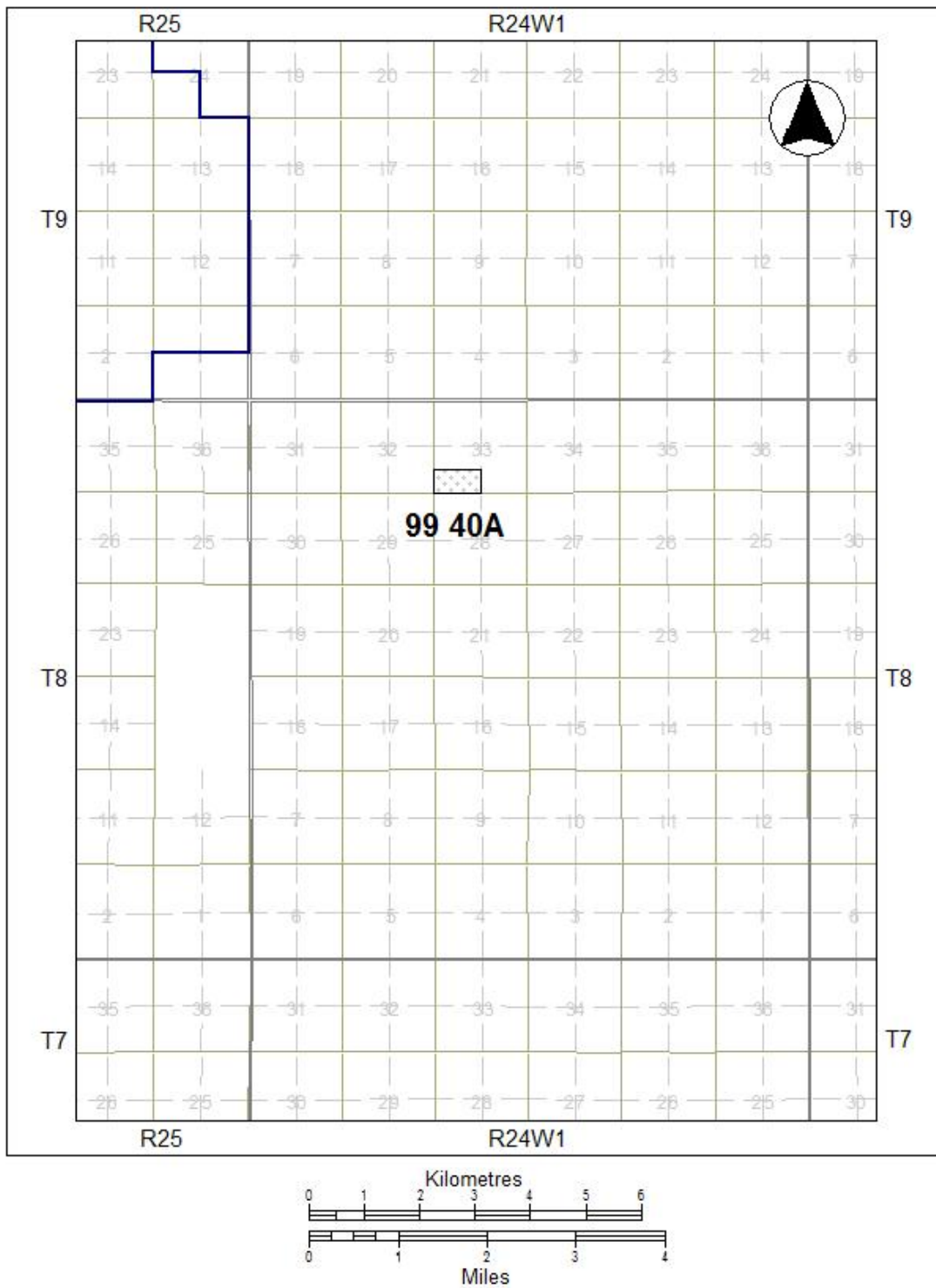


FIGURE 43 - OTHER AREAS LOWER AMARANTH – LODGEPOLE A POOL (99 40A)
 (Drawn on the DLS System Quarter Section Grid)

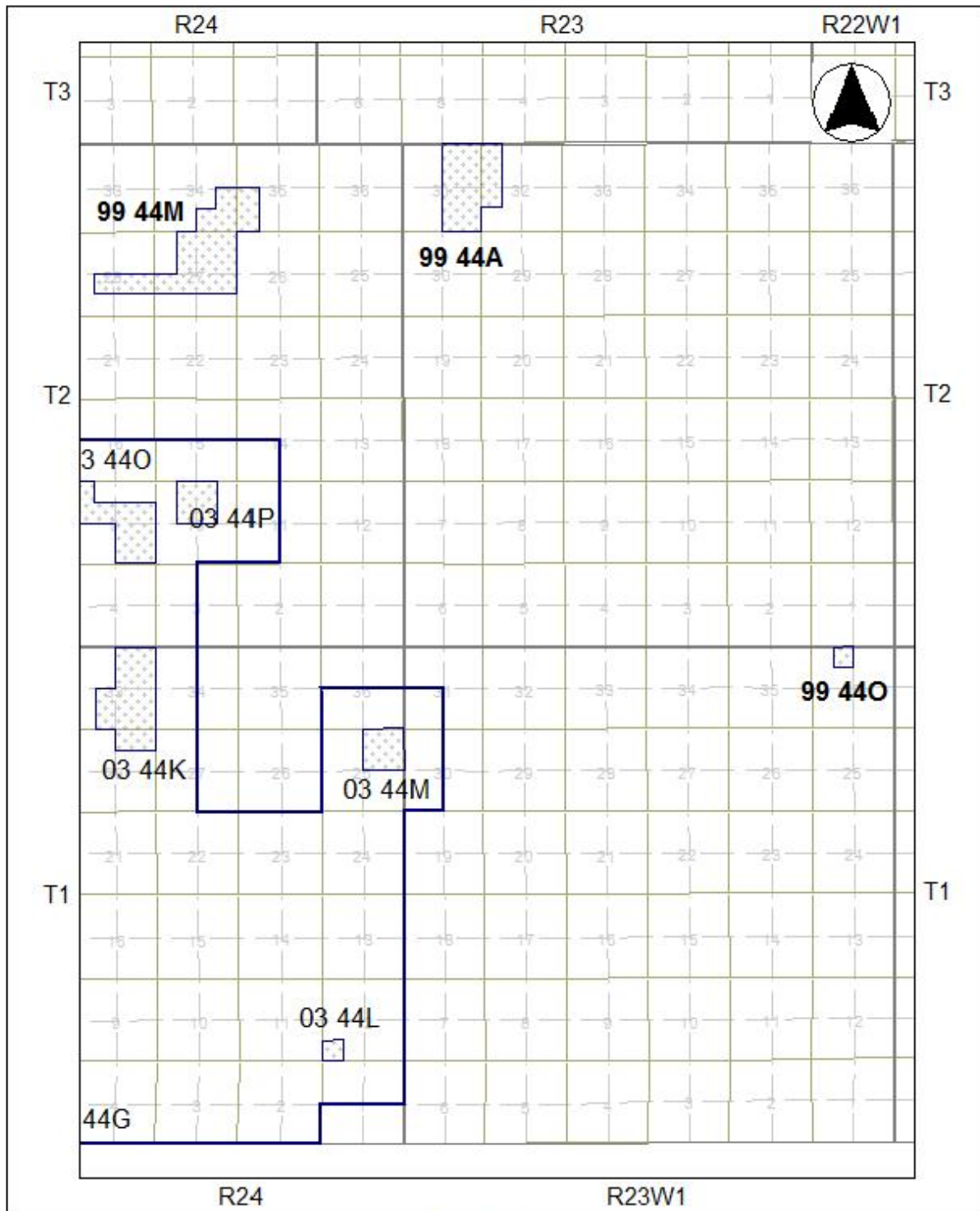


FIGURE 44 - OTHER AREAS MISSION CANYON 1 POOLS (99 44A, 99 44M & 99 44O)
 (Drawn on the DLS System Quarter Section Grid)

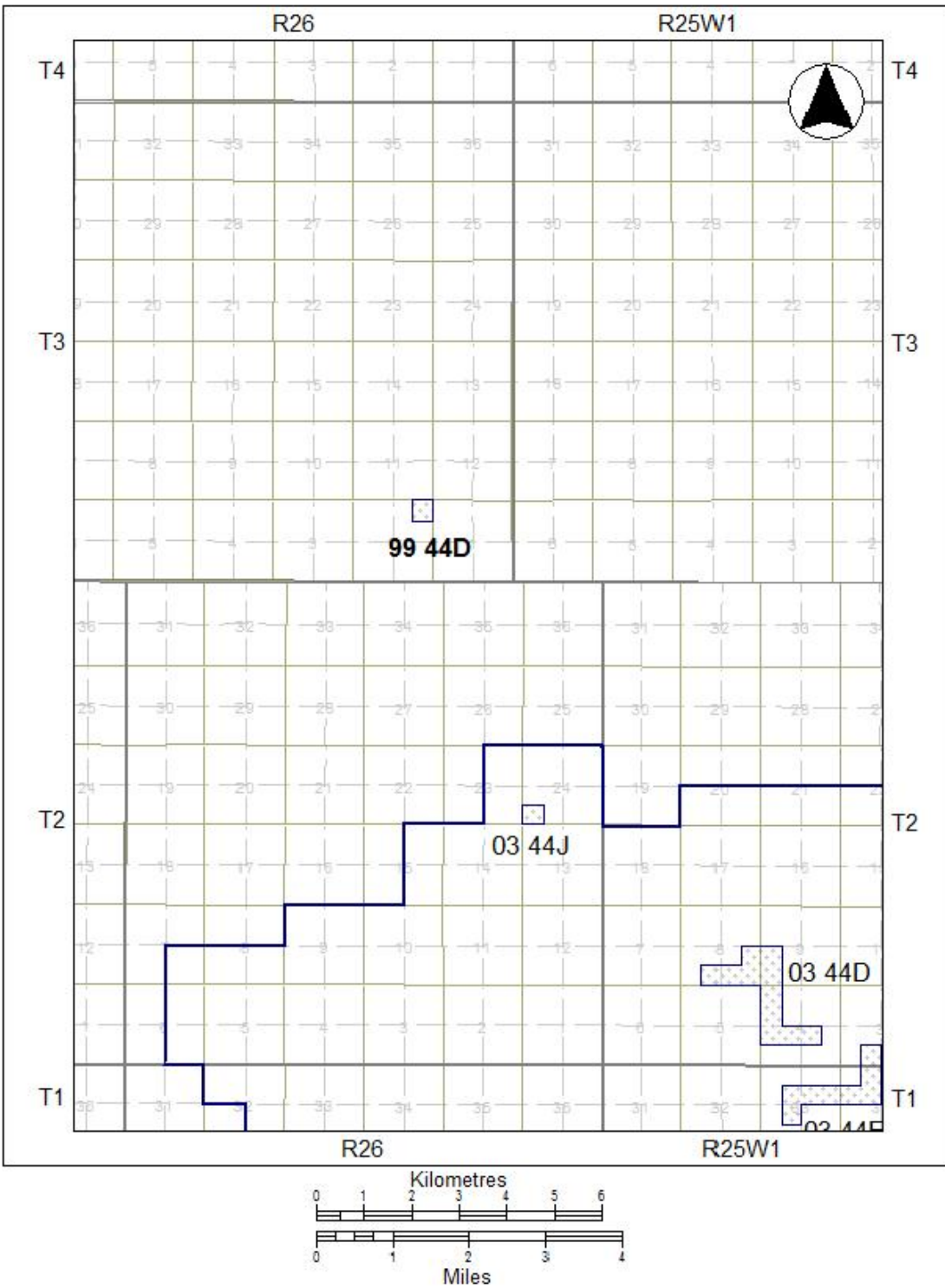


FIGURE 45 - OTHER AREAS MISSION CANYON 1 POOLS (99 44D)
 (Drawn on the DLS System Quarter Section Grid)

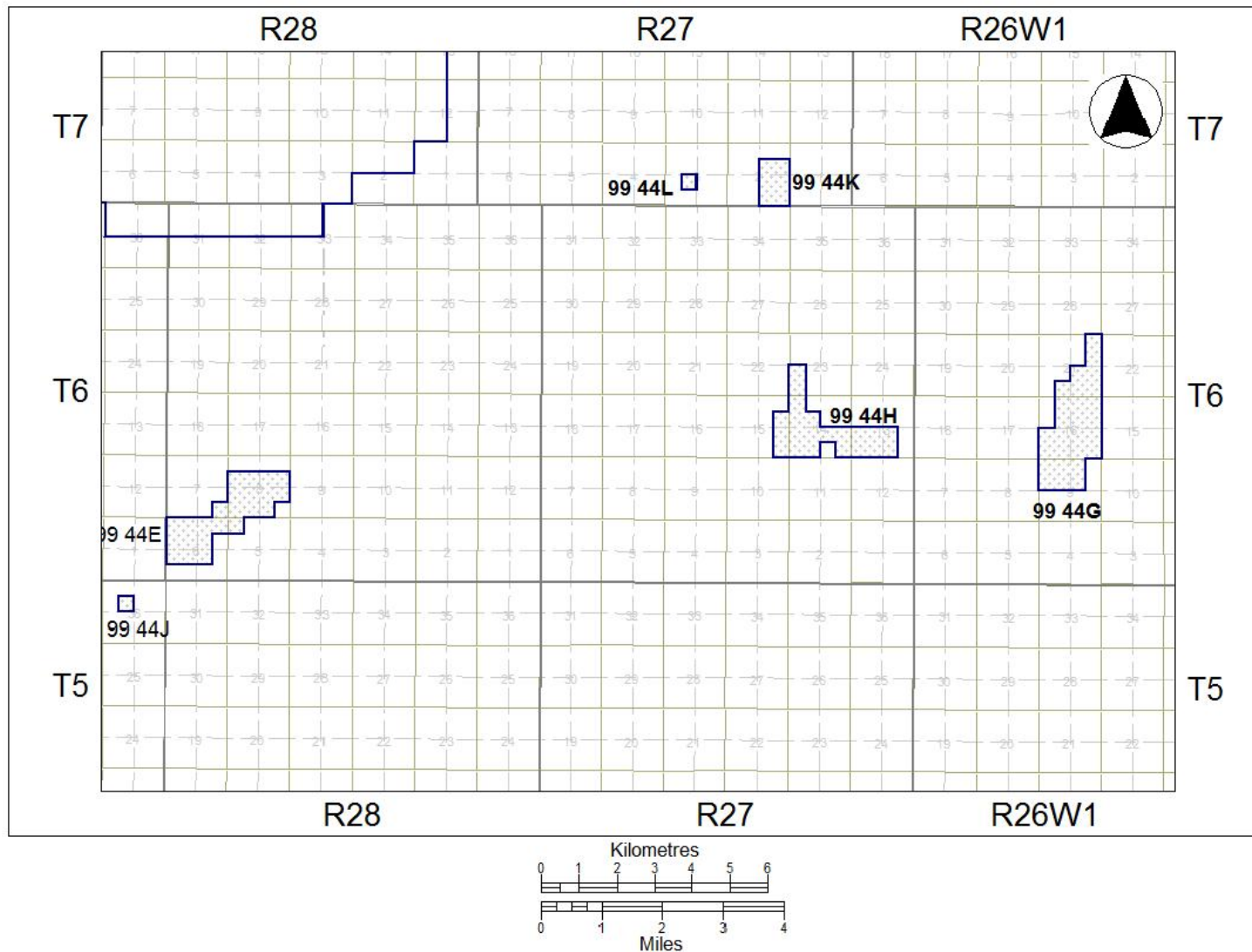


FIGURE 46 - OTHER AREAS MISSION CANYON 1 POOLS (99 44E, 99 44G, 99 44H, 99 44 J, 99 44K & 99 44L)
 (Drawn on the DLS System Quarter Section Grid)

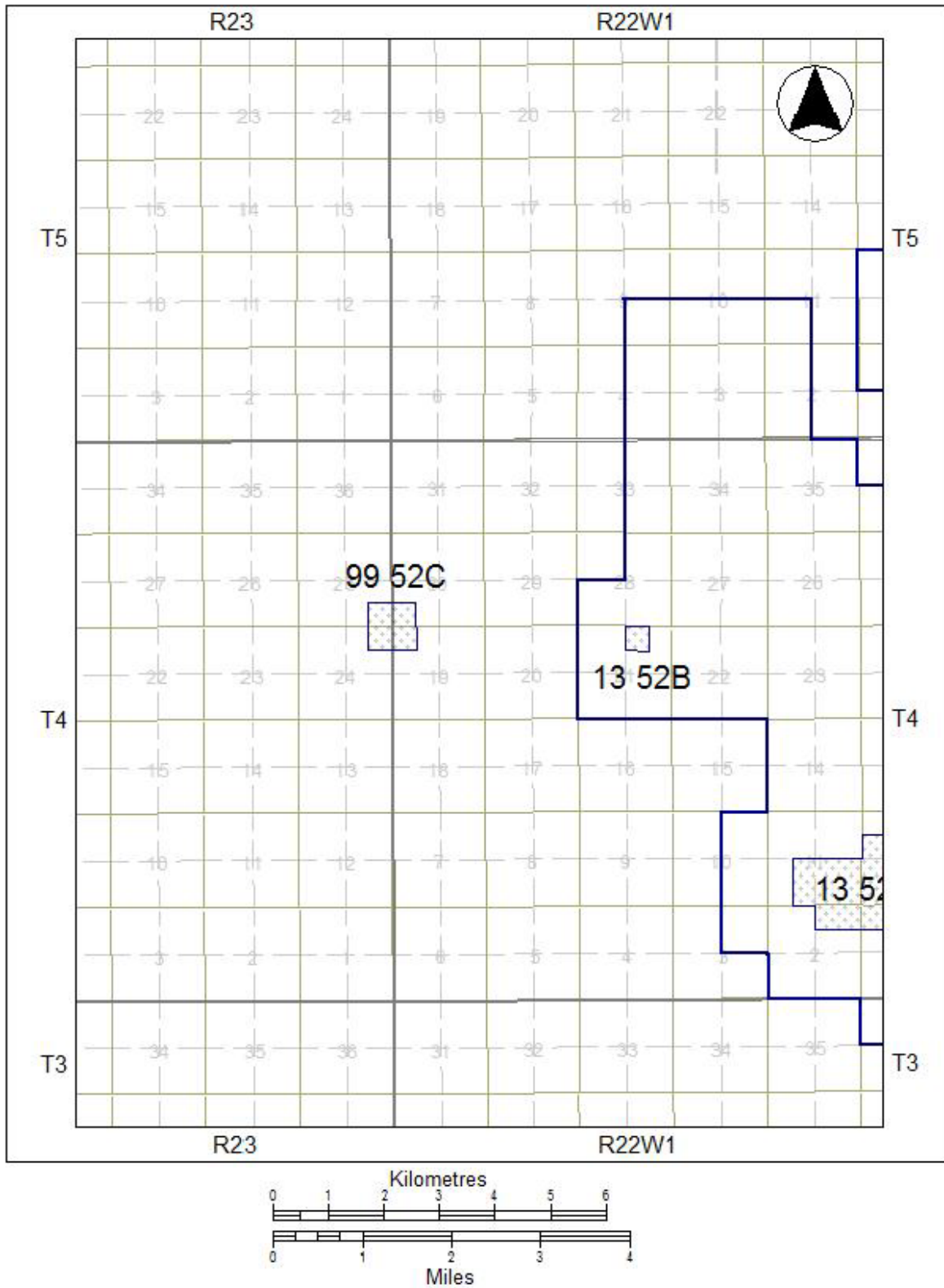


FIGURE 47 - OTHER AREAS LODGEPOLE WHITEWATER LAKE C POOL (99 52C)
 (Drawn on the DLS System Quarter Section Grid)

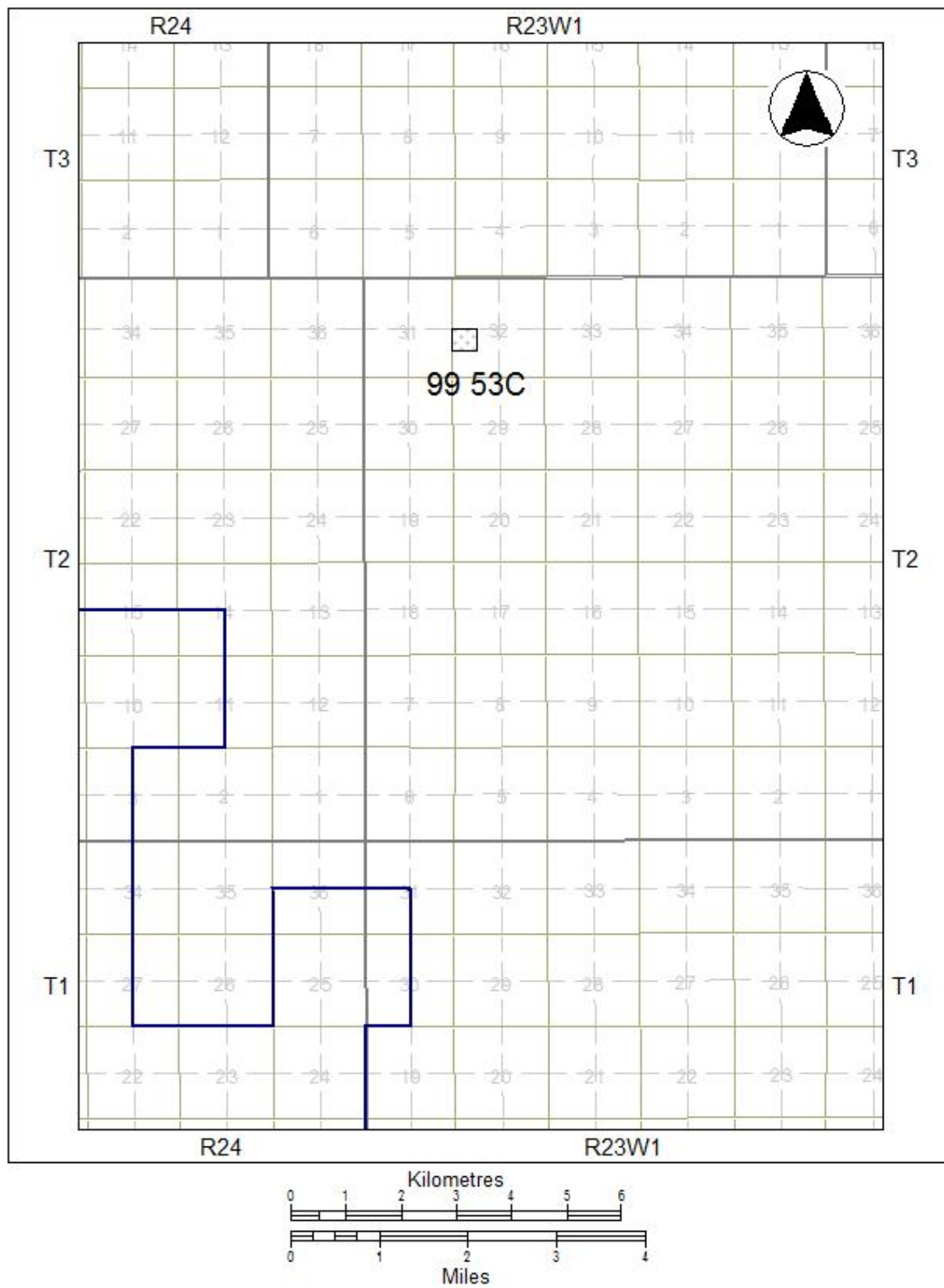


FIGURE 48 - OTHER AREAS LODGEPOLE VIRDEN C POOL (99 53C)
 (Drawn on the DLS System Quarter Section Grid)

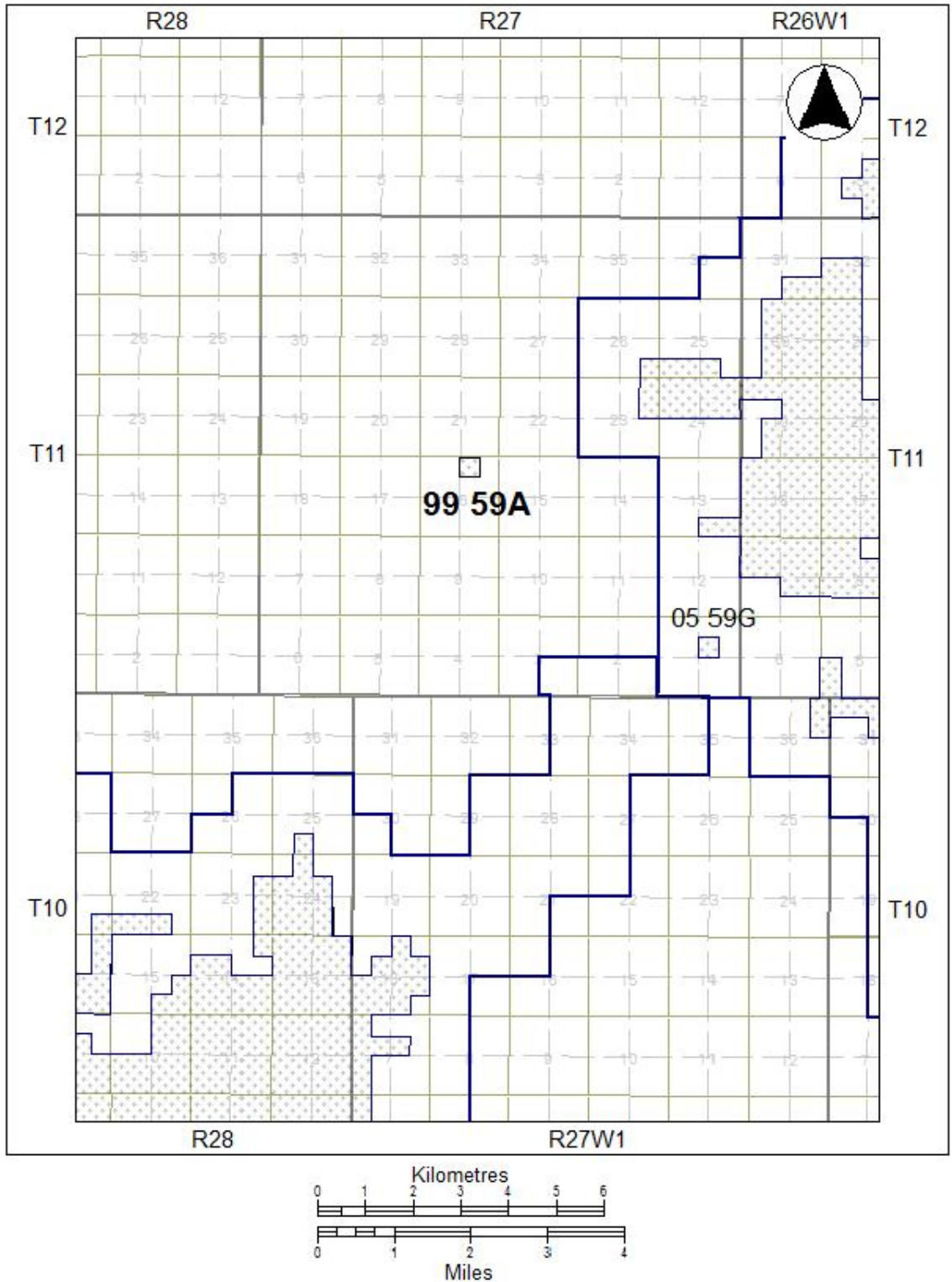


FIGURE 49 - OTHER AREAS LODGEPOLE A POOL (99 59A)
 (Drawn on the DLS System Quarter Section Grid)

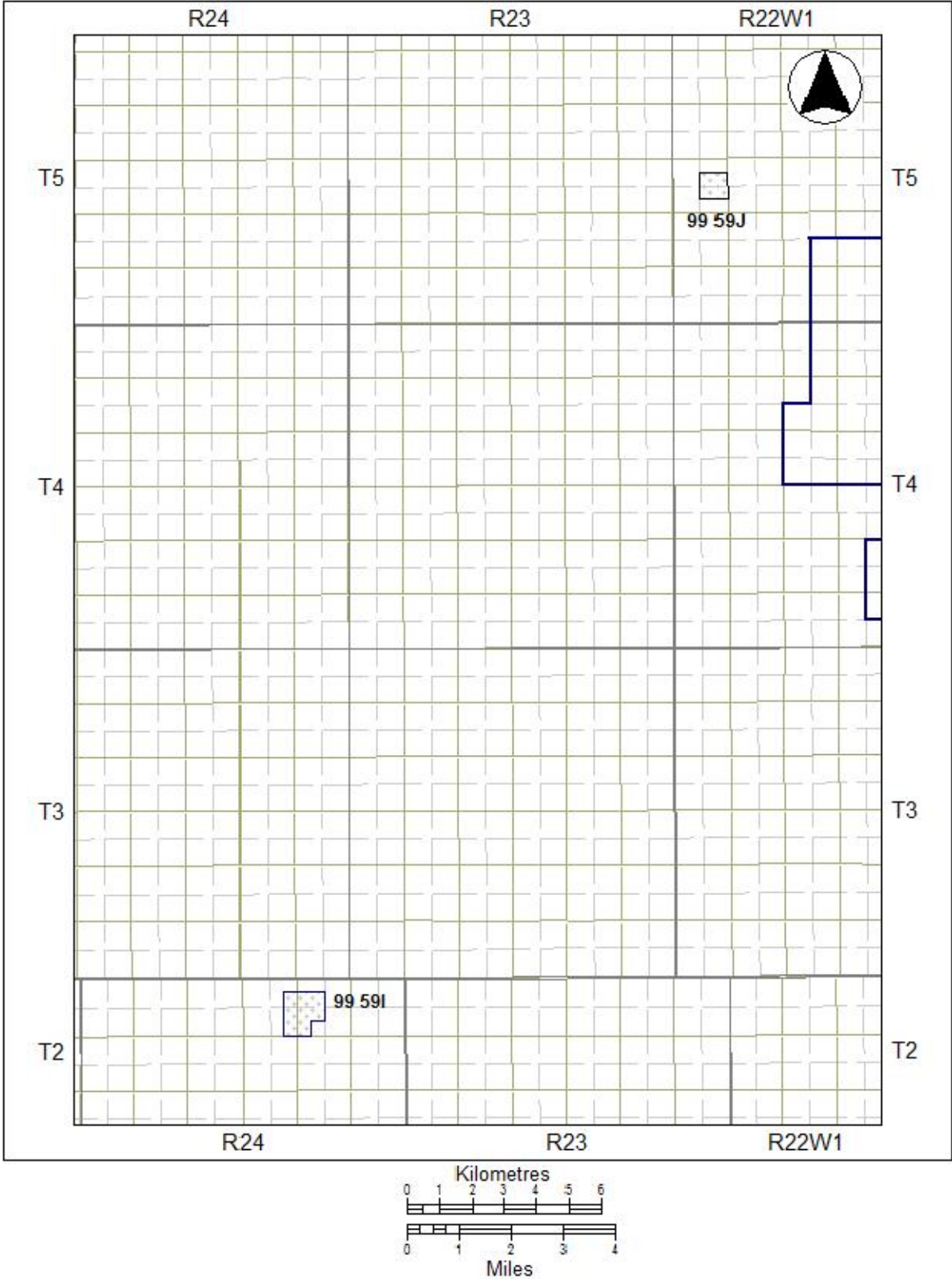


FIGURE 50 - OTHER AREAS LODGEPOLE I & J POOLS (99 59 I & 99 59J)
 (Drawn on the DLS System Quarter Section Grid)

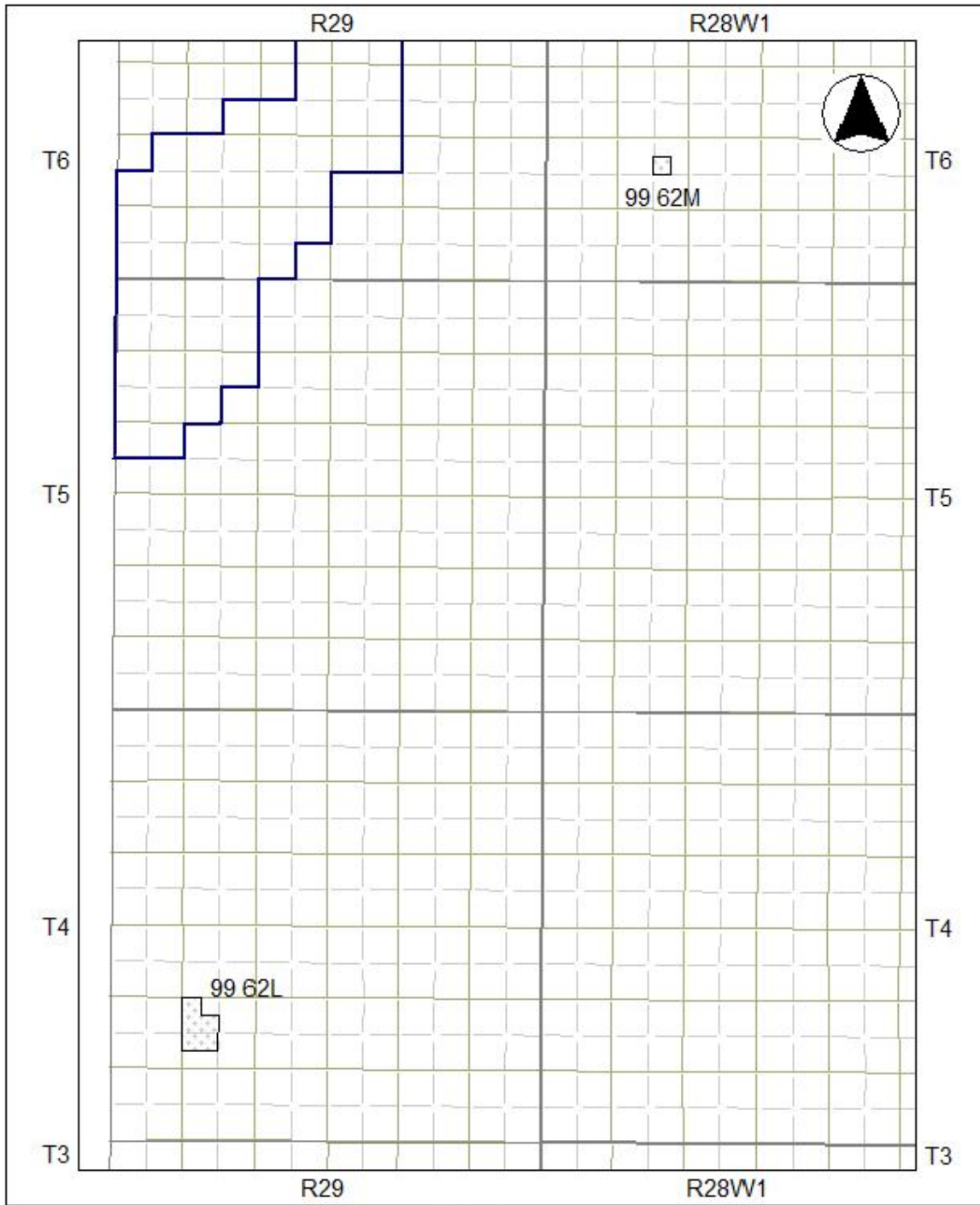


FIGURE 51 - OTHER AREAS BAKKEN-THREE FORKS L & M POOLS (99 62 L & 99 62M) (Drawn on the DLS System Quarter Section Grid)

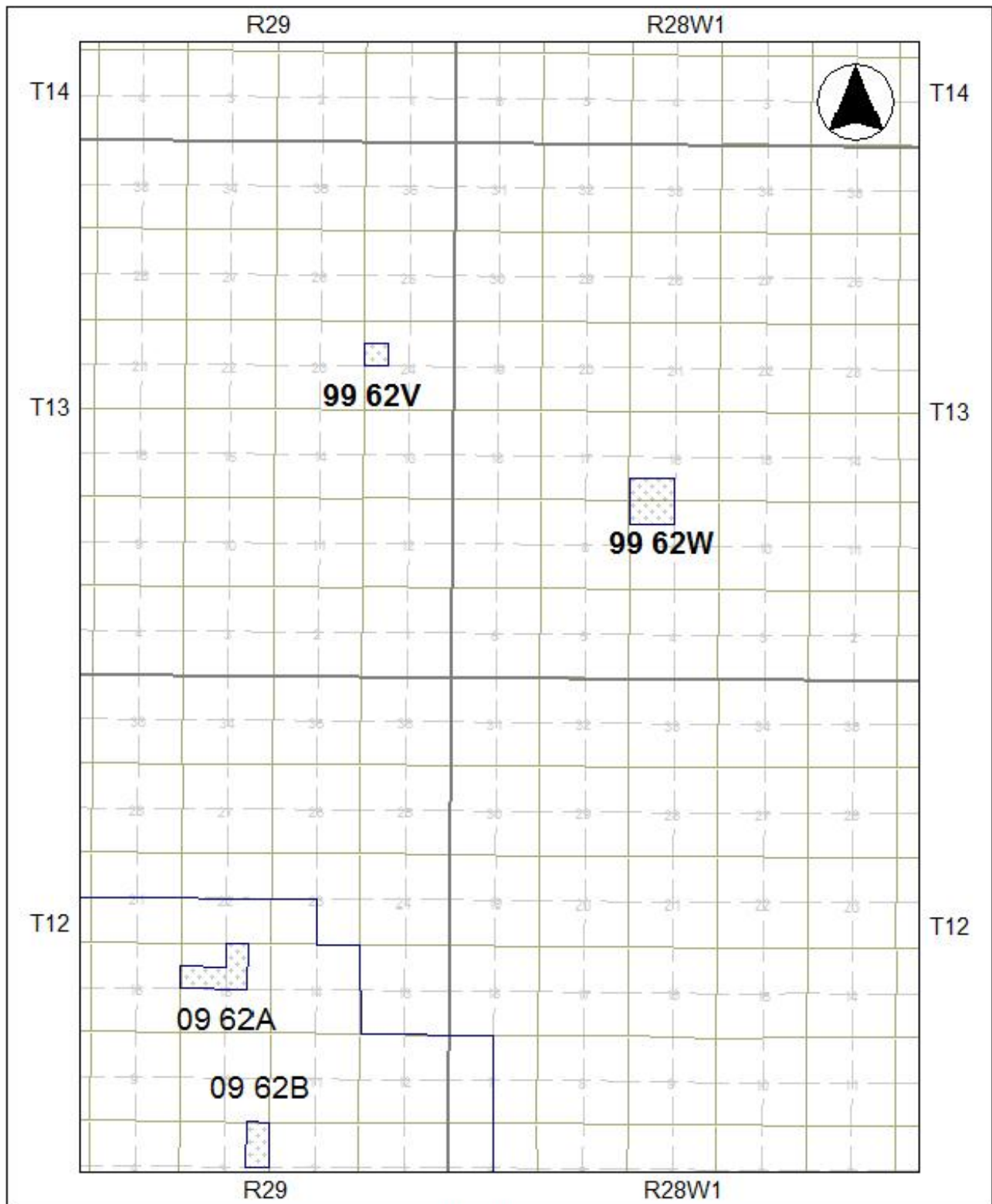


FIGURE 52 - OTHER AREAS BAKKEN-THREE FORKS V & W POOLS (99 62V & 99 62W) (Drawn on the DLS System Quarter Section Grid)

APPENDIX A Grid and scale

The grid used in all the field and pool maps within this report are in the Dominion Land Survey System (DLS) 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 it is denoted by 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. See 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 53:

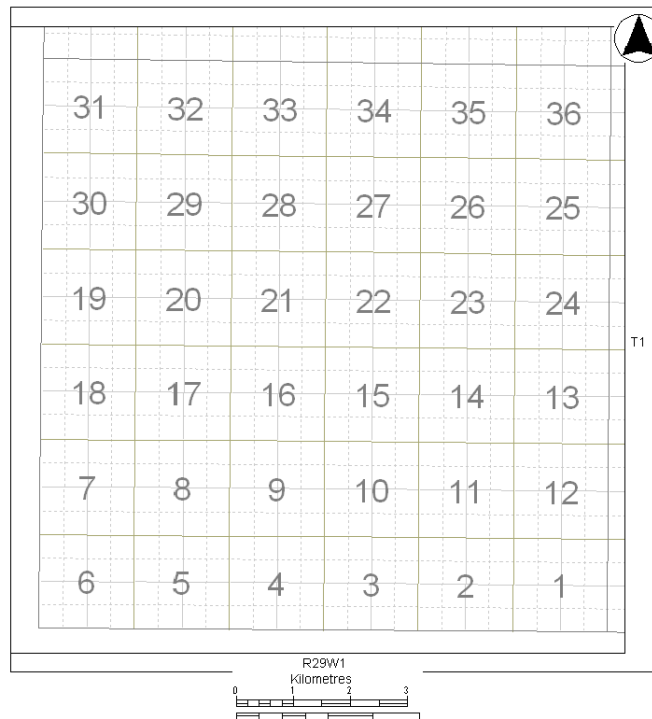


Figure 53
Sections in a Township.

Each Section is divided into 16 legal subdivisions (Lsd), 4 Lsd's wide by 4 Lsd's high, each 402.36m square or 40 acres. Pool boundaries are adjusted by Lsd. Each Lsd is numbered as shown in section 1 of Figure 54. Each section can also be split into ¼ sections as shown in Figure 55, 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 804.72m square 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 it is incorporated into the Unique Well Identifier (UWI) a code used to identify each oil well in Manitoba. A UWI is coded as: 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.

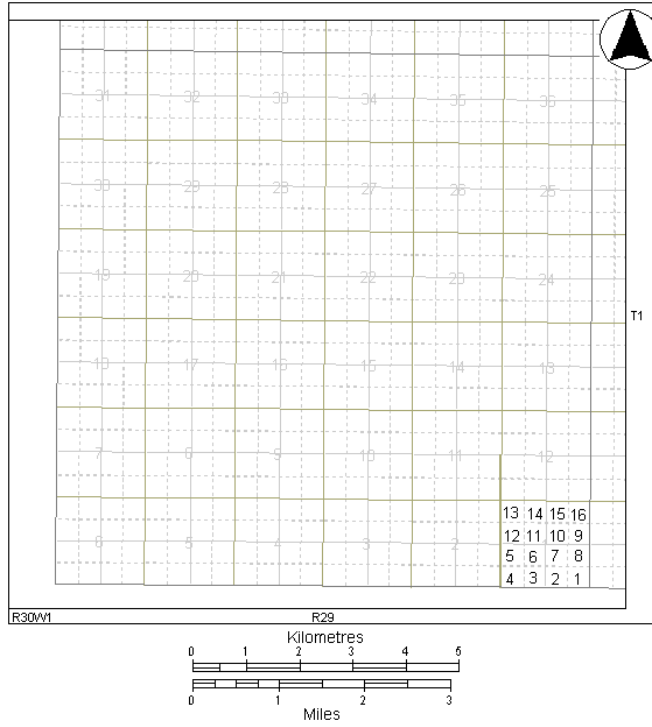


Figure 54
Legal subdivisions in a section.

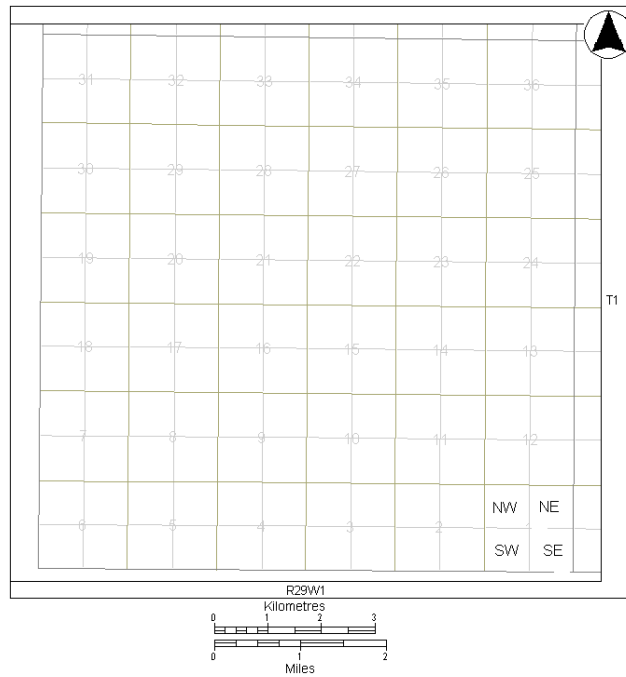


Figure 55
Quarter Section illustration.

APPENDIX B

Manitoba Pool Codes

CODE	FORMATION OR MEMBER	CODE	FORMATION OR MEMBER
10	Favel Formation		
11	Ashville Formation, Newcastle Member	59	Lodgepole, undifferentiated
15	Swan River Formation	60	Bakken Formation
19	Melita Formation	62	Bakken – Three Forks Formations
26	Triassic, undifferentiated	65	Three Forks Formation
29	Lower Amaranth, undifferentiated	71	Birdbear Formation
35	Lower Amaranth – Mission Canyon Formation, MC3b	72	Duperow Formation
39	Mississippian Undifferentiated	73	Souris River Formation
40	Lower Amaranth – Lodgepole undifferentiated	74	Dawson Bay Formation
41	Mission Canyon Formation, MC-3 Member, undifferentiated	75	Prairie Evaporite Formation
42	Mission Canyon Formation, MC-3b	76	Winnipegosis Formation (formerly 75)
43	Mission Canyon Formation, MC-3a	78	Devonian, undifferentiated (formerly 79)
44	Mission Canyon Formation, MC-1 Member	79	Silurian, Interlake Group
49	Mission Canyon Formation, undifferentiated	80	Stonewall Formation
51	Lodgepole Formation, dolomitic	81	Stony Mountain Formation
52	Lodgepole Formation, Whitewater Lake Member	82	Red River Formation
53	Lodgepole Formation, Virden Member	85	Winnipeg Formation
54	Lodgepole Formation, Daly Member	89	Ordovician, undifferentiated
55	Lodgepole Formation, Crinoidal Cruickshank facies	90	Cambrian, Deadwood Formation
56	Lodgepole Formation, Scallion Member(formerly 55)		

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