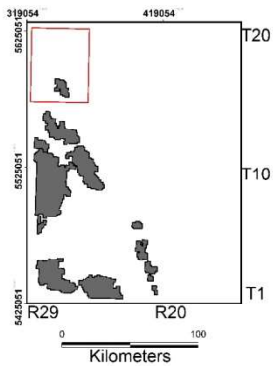
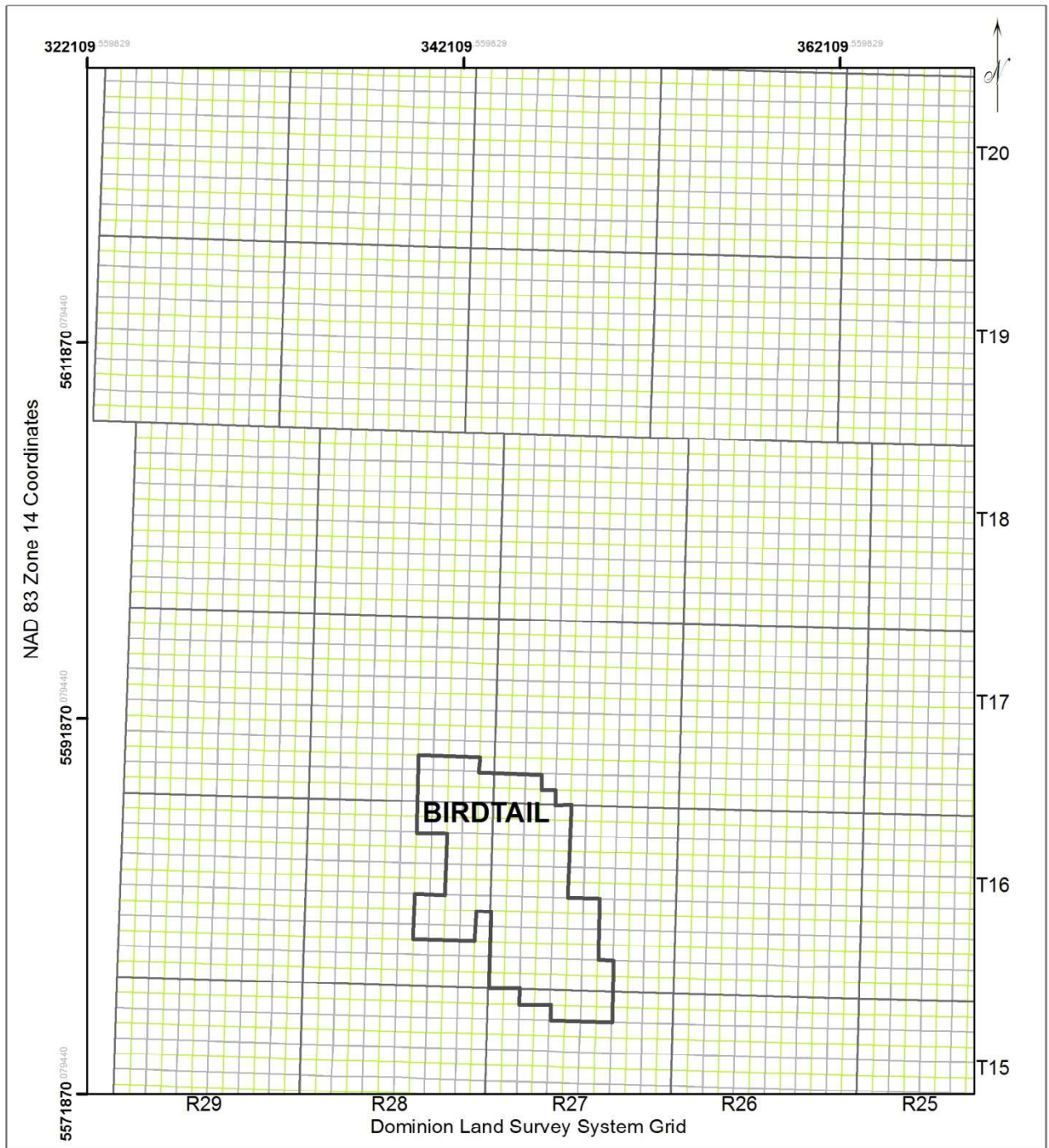


Proposed Birdtail Unit No. 5
Application for Enhanced Oil Recovery Waterflood Project

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Map 1

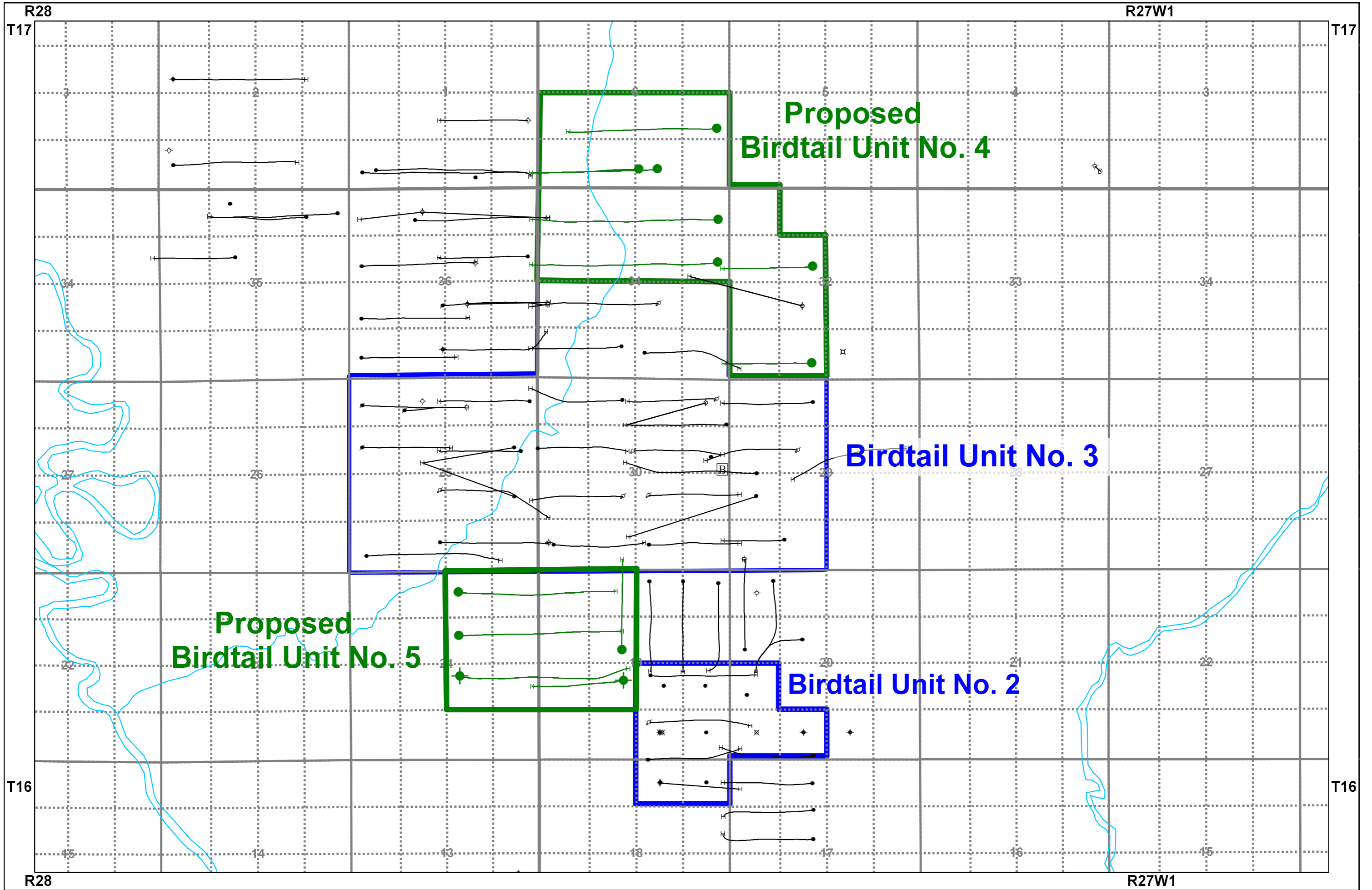
Manitoba's Designated Fields & Pools 2016
 Well Information: January 1, 2016.
 Geology by: P. Fulton-Regula
 Petroleum Branch

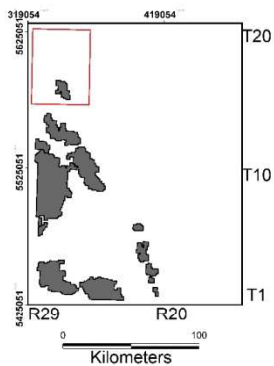
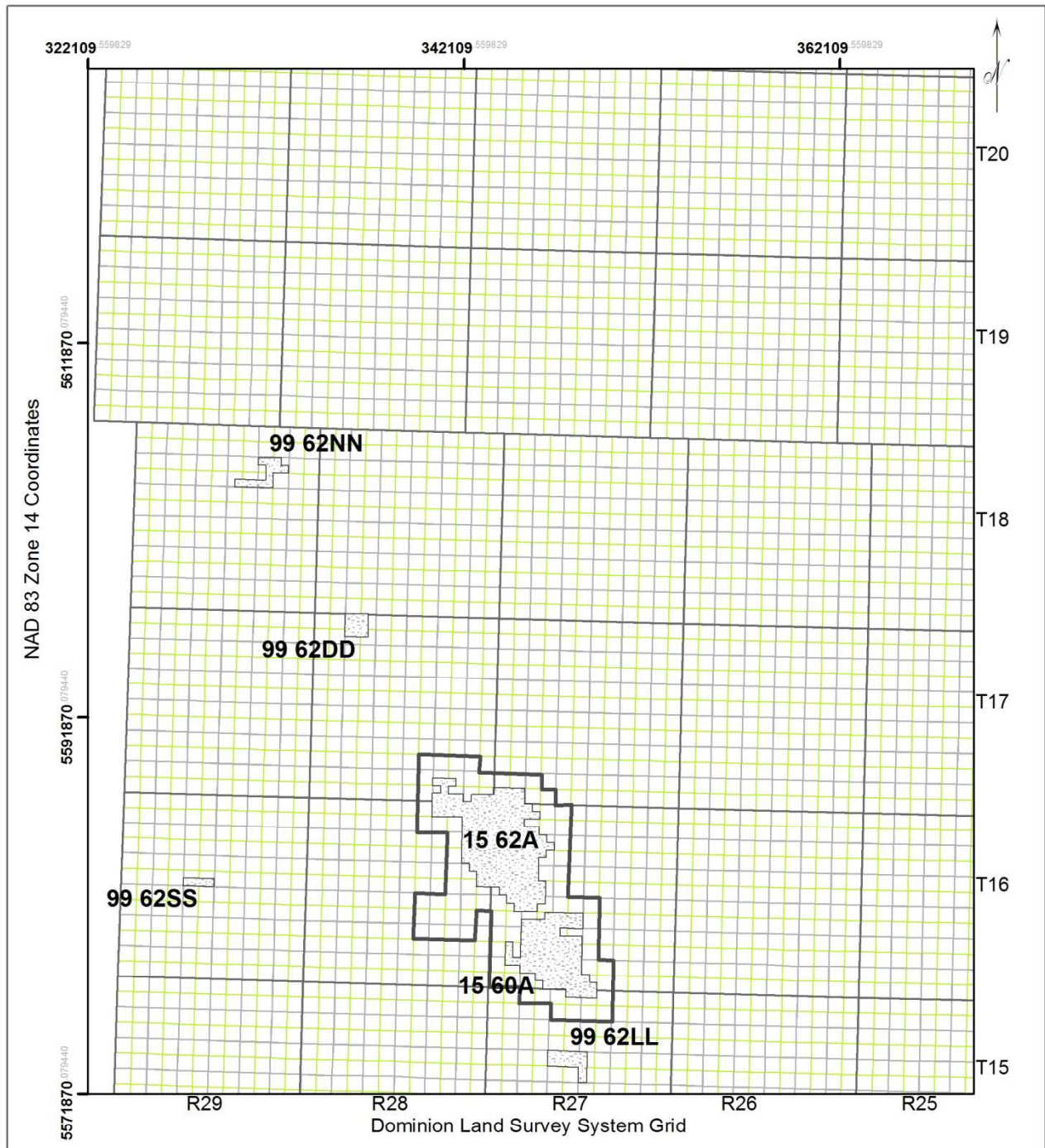
Legend

-  2016 Fields
-  Township Grid
-  Section Grid
-  Quarter Section Grid



Figure 1 - Map 1 Birdtail Field





Legend

-  2016 Fields
-  Oil Pools
-  Township Grid
-  Section Grid
-  Quarter Section Grid

Map 1

Manitoba's Designated Fields & Pools 2016
 Well Information: January 1, 2016.
 Geology by: P. Fulton-Regula
 Petroleum Branch



Figure 3 - Bakken & Bakken Torquay Formation Pools (60 & 62)

Production Graph

Group:	birdtail unit no. 5.lwell	On Prod:	2010-10 to 2018-10	Cum Oil:	21953.3 m3
# of Wells:	5	Prod Form:	BAKKEN; TORQUAY	Cum Gas:	0.0 E3m3
Fluid:	Oil	Field:	BIRDTAIL (MB15)	Cum Wtr:	35043.9 m3
Mode:	Producing; Abandoned Zone	Pool Code:	MB001562A	Cum Inj Oil:	0.0 m3
		Unit Code:		Cum Inj Gas:	0.0 E3m3
				Cum Inj Wtr:	0.0 m3

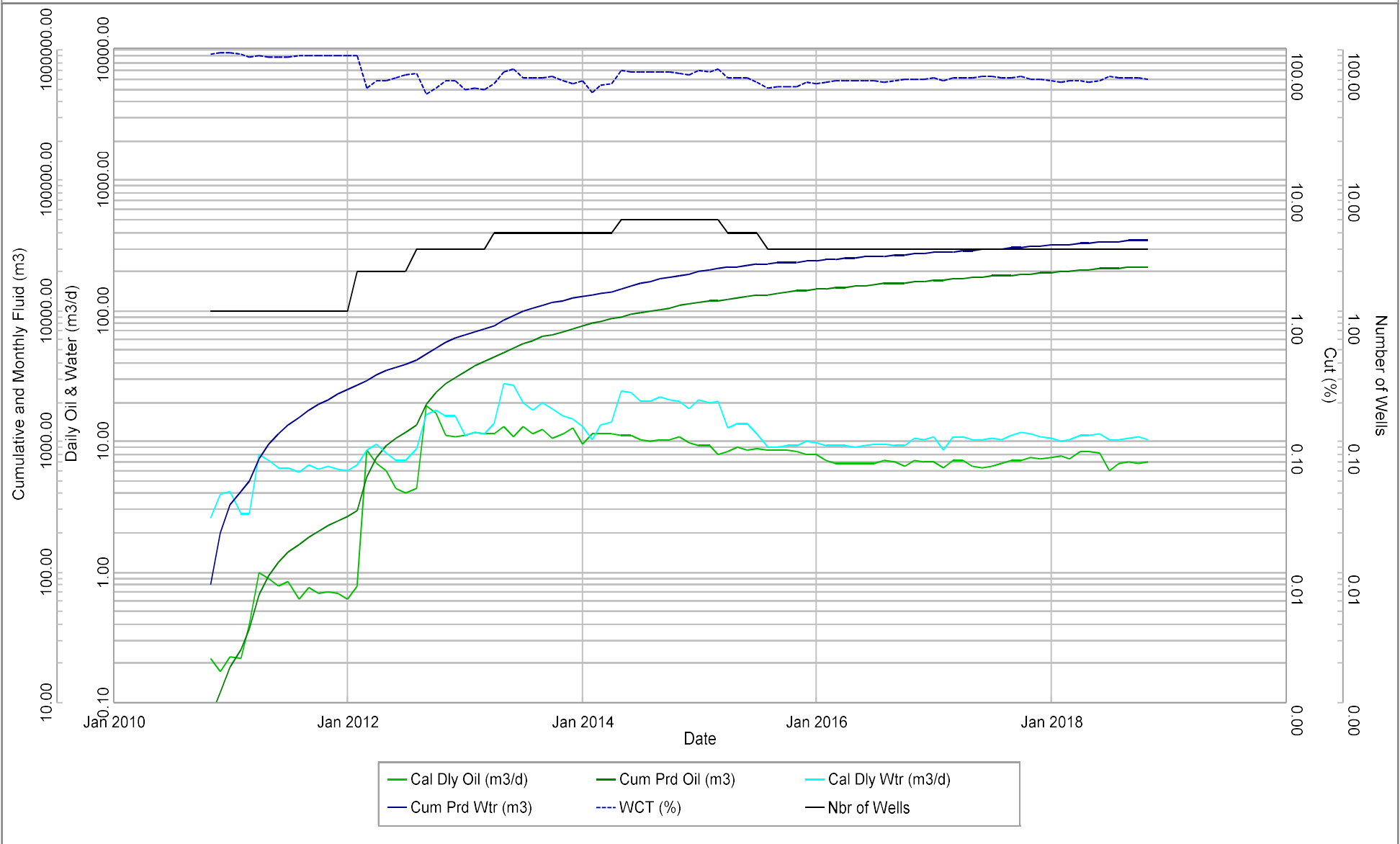
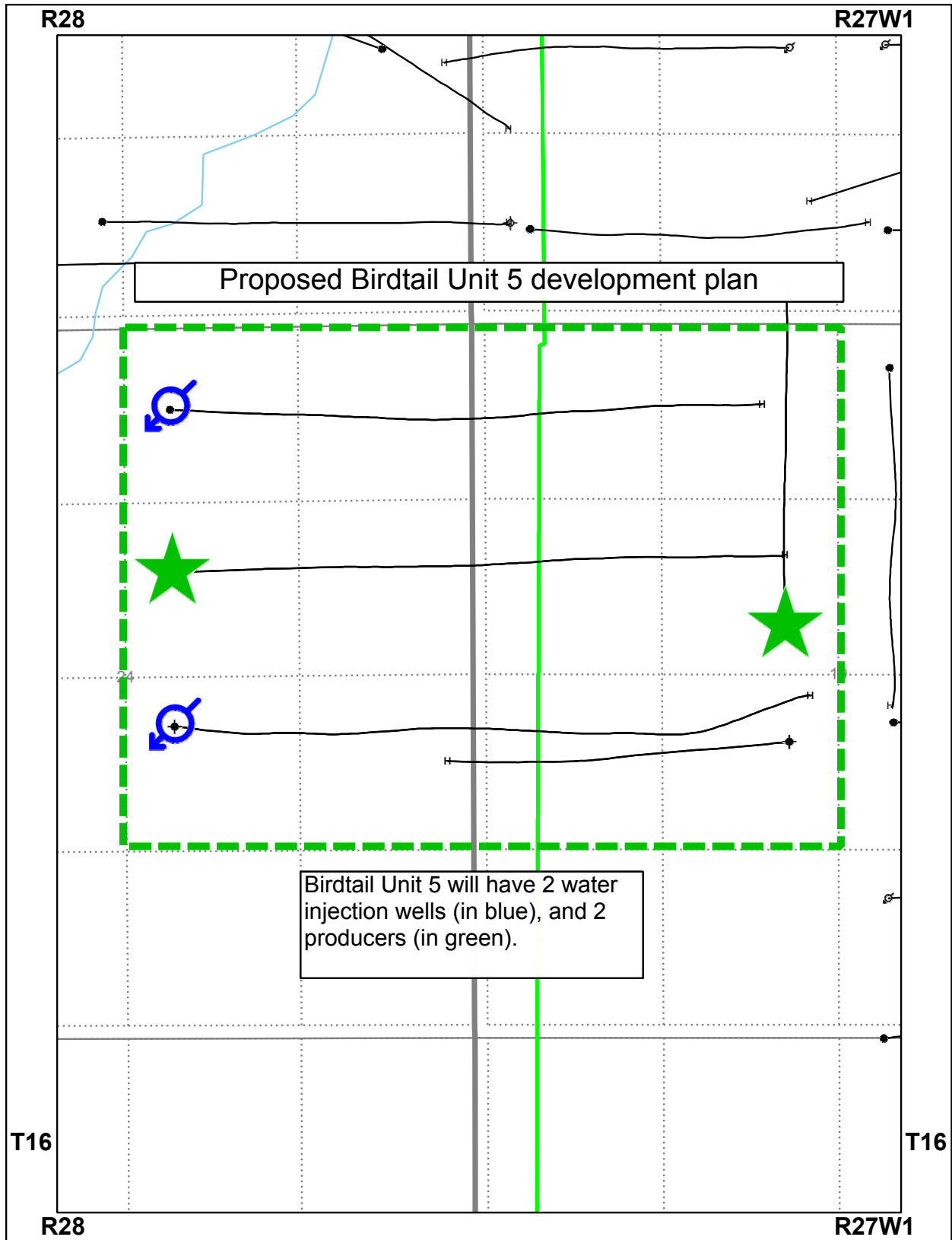


Figure No. 5



Map Title

Datum: NAD27 Projection: Stereographic DLS Version AB: ATS 2.6, BC: PRB 2.0, SK: STS 2.5, MB: MLI07



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Production Graph

Group:	birdtail unit no. 3.lwell	On Prod:	2009-11 to 2018-07	Cum Oil:	121280.8 m3
# of Wells:	28	Prod Form:	BAKKEN; BAKKENM; THREEFK	Cum Gas:	0.0 E3m3
Fluid:	Oil; Water Injection	Field:	BIRDTAIL (MB15)	Cum Wtr:	154823.4 m3
Mode:	Producing; Injection; Suspended; Drilled & Cased	Pool Code:	MB001562A	Cum Inj Oil:	0.0 m3
		Unit Code:	1562A3	Cum Inj Gas:	0.0 E3m3
				Cum Inj Wtr:	94255.0 m3

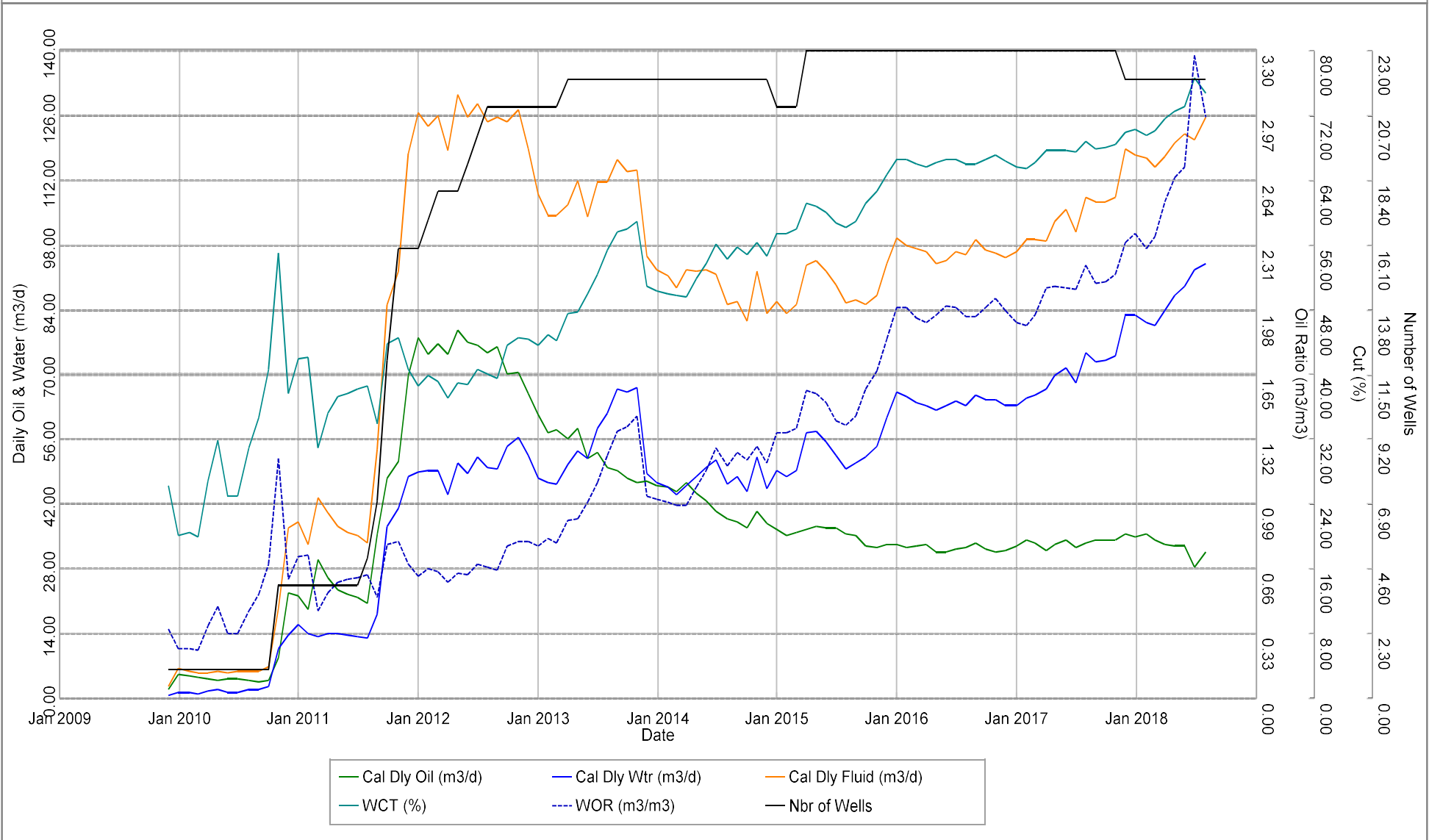
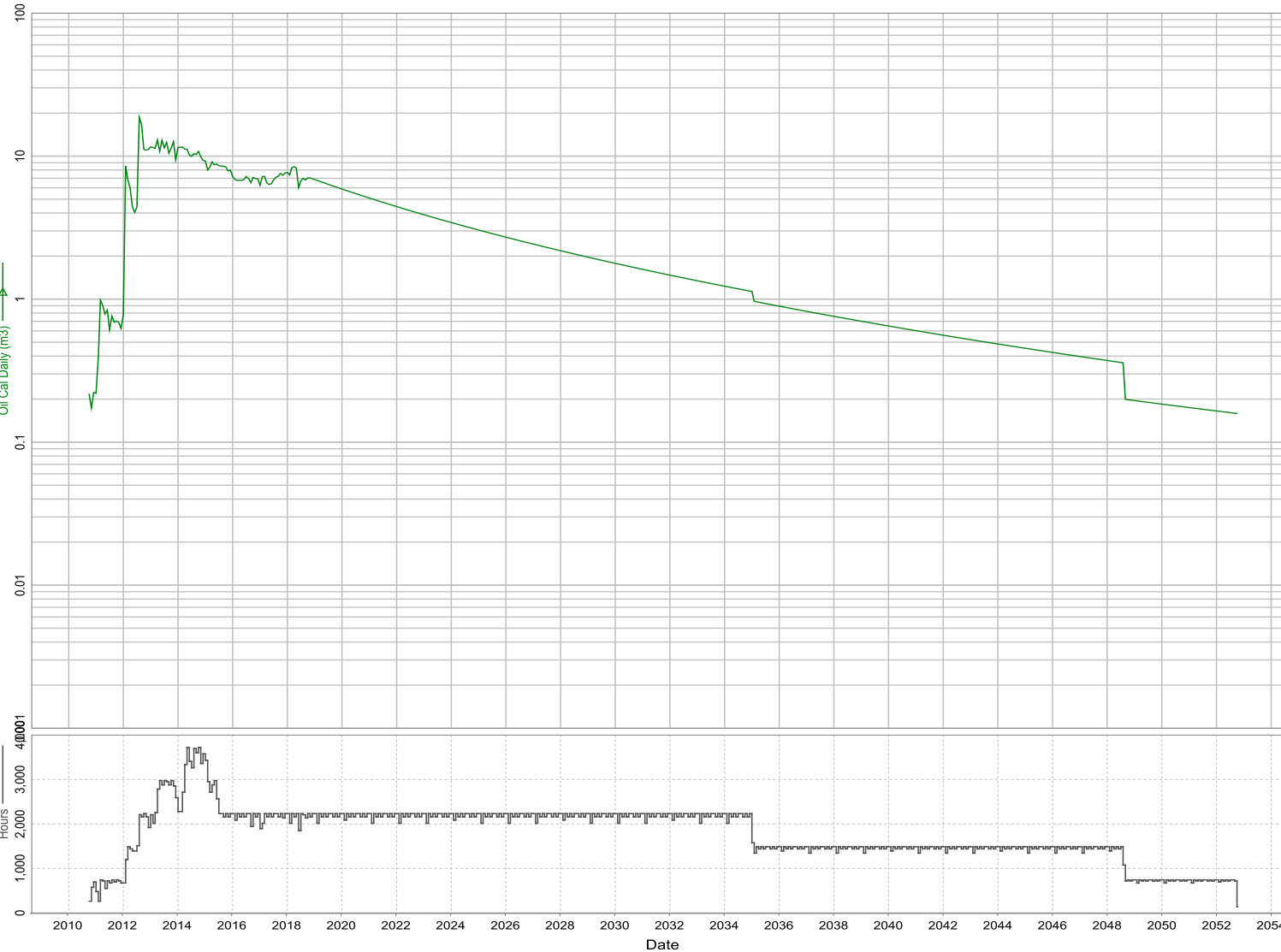


Figure No. 7

**Base Forecast
Tundra Oil and Gas
VOLUME FORECAST
Evaluation WB List**

Effective November 01, 2018



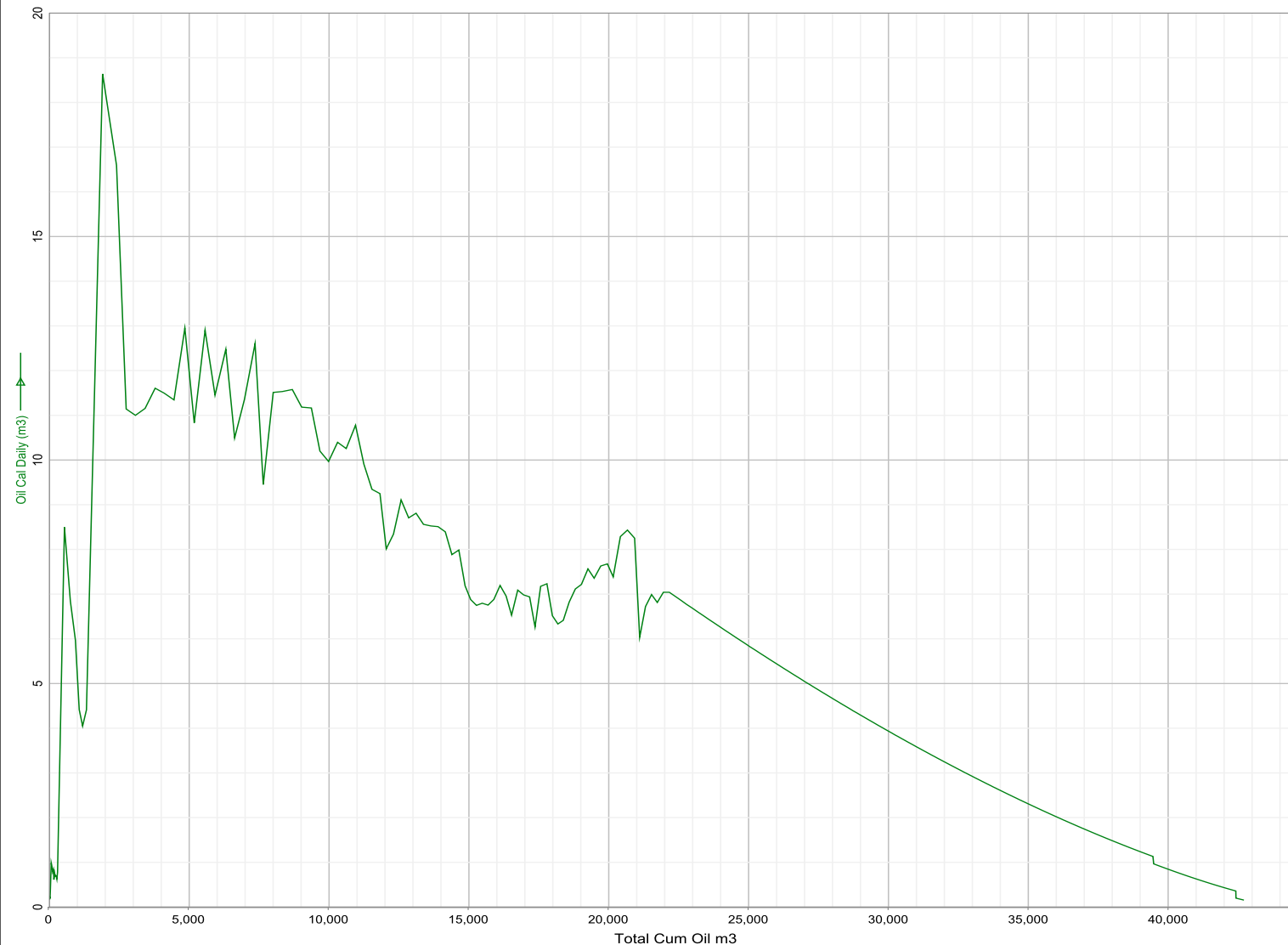
Selection:	Evaluation WB List
Volume:	Oil Production
Category:	Base
Aggregation:	Sum
Normalization:	None

Volume Summary		
Oil	Cum (m3)	21,953
	Rem Rec (m3)	20,733
	Ult Rec (m3)	42,686
Gas	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0
Water	Cum (m3)	35,044
	Rem Rec (m3)	0
	Ult Rec (m3)	35,044
Field	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0
NGL	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0

Forecast and Indicators @ Eff Date	
Product	Oil
Forecast Start	2018/11/01
Forecast End	2052/10/01
Presentation	Saved Public
Initial Rate (m3)	7.04
Final Rate (m3)	0.16
Ult Rec (m3)	42,685.98
Cum (m3)	21,953.30
Rem Rec (m3)	20,732.68
Res Life (yrs)	33.92
RLI Full Year (yrs)	1.38
Res Half Life (yrs)	14.06

**Base Forecast
Tundra Oil and Gas
VOLUME FORECAST
Evaluation WB List**

Effective November 01, 2018



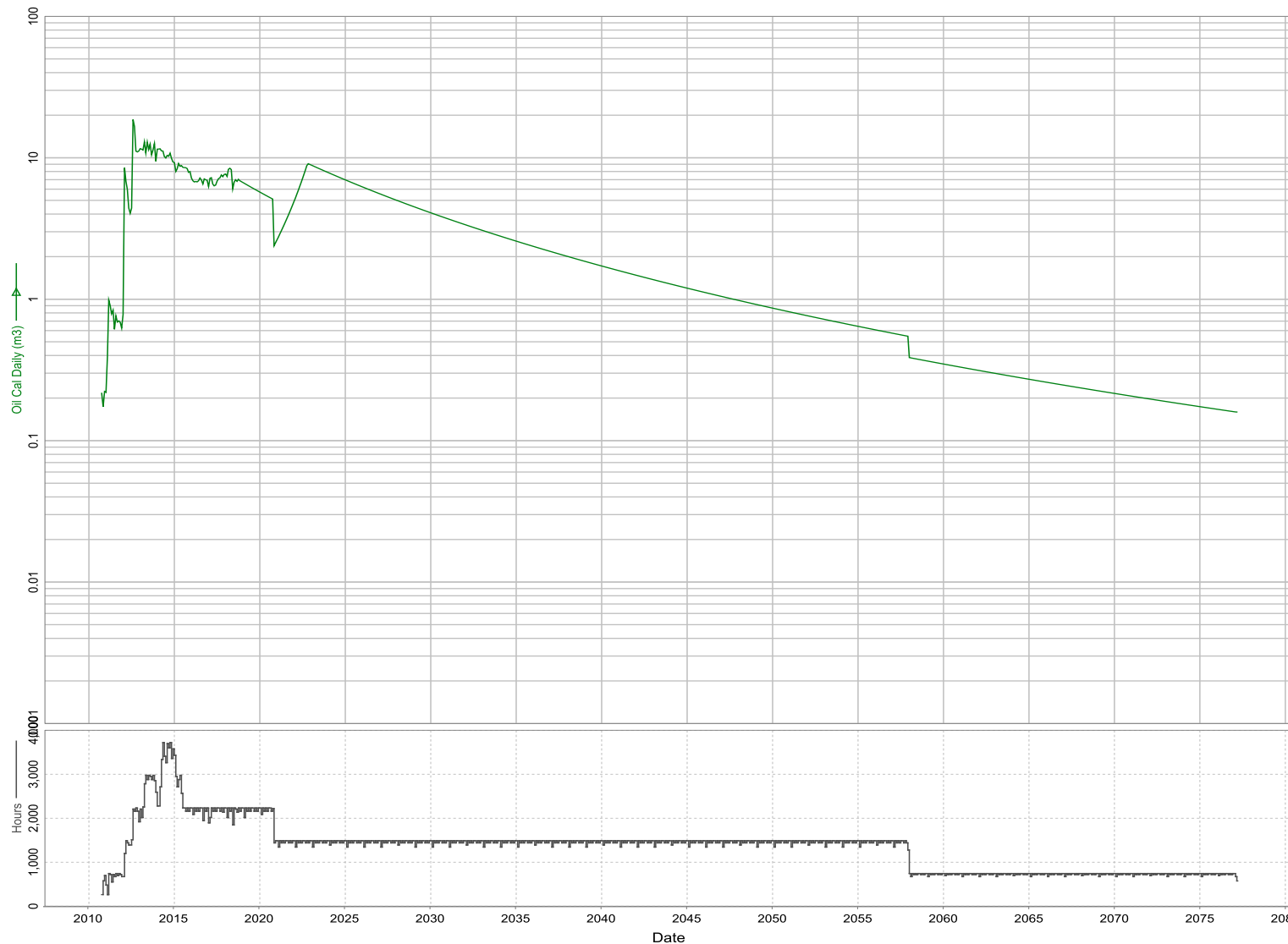
Selection:	Evaluation WB List
Volume:	Oil Production
Category:	Base
Aggregation:	Sum
Normalization:	None

Volume Summary		
Oil	Cum (m3)	21,953
	Rem Rec (m3)	20,733
	Ult Rec (m3)	42,686
Gas	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0
Water	Cum (m3)	35,044
	Rem Rec (m3)	0
	Ult Rec (m3)	35,044
Field	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0
NGL	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0

Forecast and Indicators @ Eff Date	
Product	Oil
Forecast Start	2018/11/01
Forecast End	2052/10/01
Presentation	Saved Public
Initial Rate (m3)	7.04
Final Rate (m3)	0.16
Ult Rec (m3)	42,685.98
Cum (m3)	21,953.30
Rem Rec (m3)	20,732.68
Res Life (yrs)	33.92
RLI Full Year (yrs)	1.38
Res Half Life (yrs)	14.06

**Base + Growth Forecast
Tundra Oil and Gas
VOLUME FORECAST
Evaluation WB List**

Effective November 01, 2018



Selection:	Evaluation WB List
Volume:	Oil Production
Category:	Base + Growth 1
Aggregation:	Sum
Normalization:	None

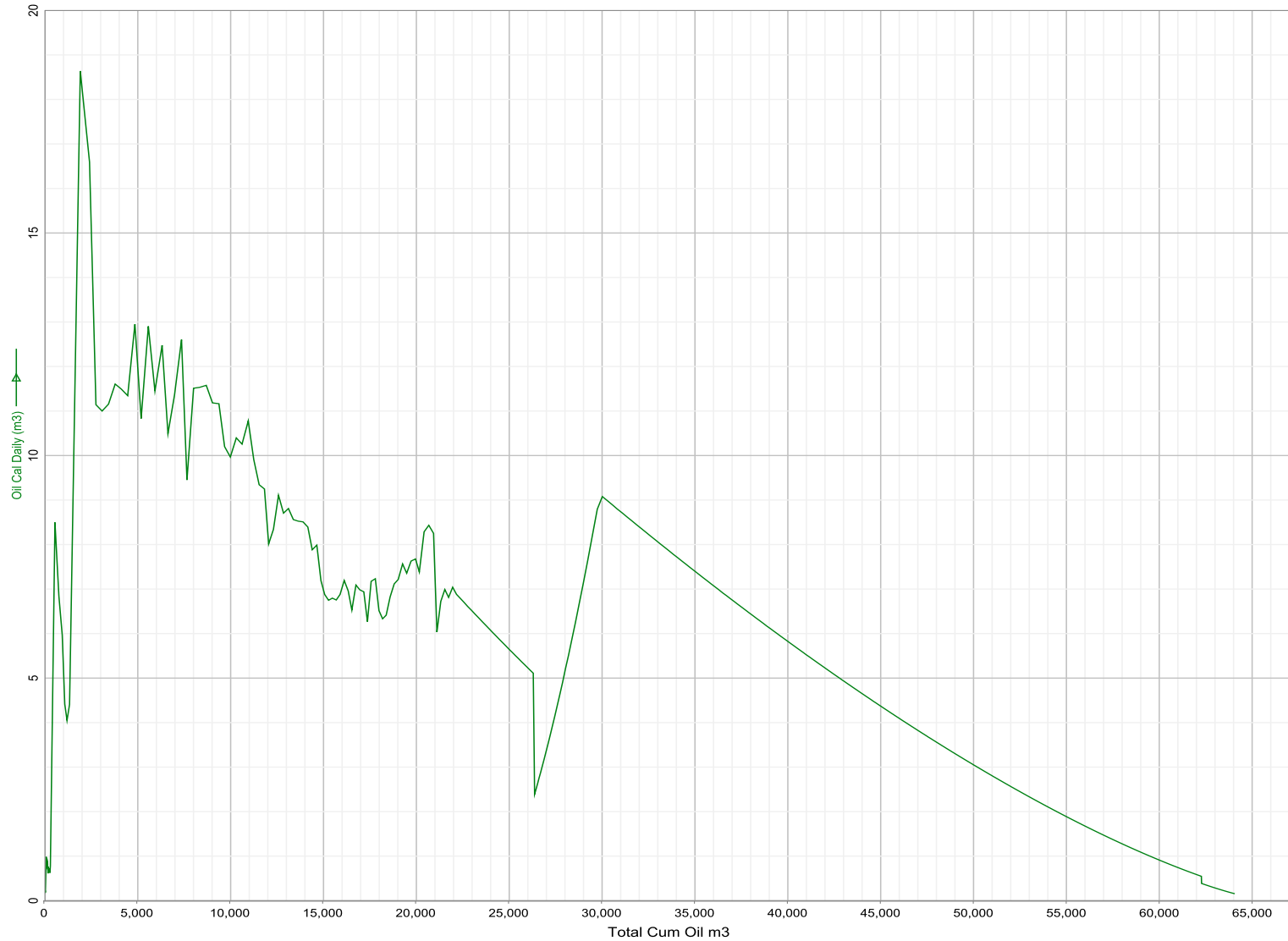
Volume Summary		
Oil	Cum (m3)	21,953
	Rem Rec (m3)	42,078
	Ult Rec (m3)	64,031
Gas	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0
Water	Cum (m3)	35,044
	Rem Rec (m3)	0
	Ult Rec (m3)	35,044
Field	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0
NGL	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0

Forecast and Indicators @ Eff Date	
Product	Oil
Forecast Start	2018/11/01
Forecast End	2077/03/01
Presentation	Saved Public
Initial Rate (m3)	6.88
Final Rate (m3)	0.16
Ult Rec (m3)	64,031.32
Cum (m3)	21,953.30
Rem Rec (m3)	42,078.02
Res Life (yrs)	58.33
RLI Full Year (yrs)	2.86
Res Half Life (yrs)	17.47

Figure No. 10

**Base + Growth Forecast
Tundra Oil and Gas
VOLUME FORECAST
Evaluation WB List**

Effective November 01, 2018



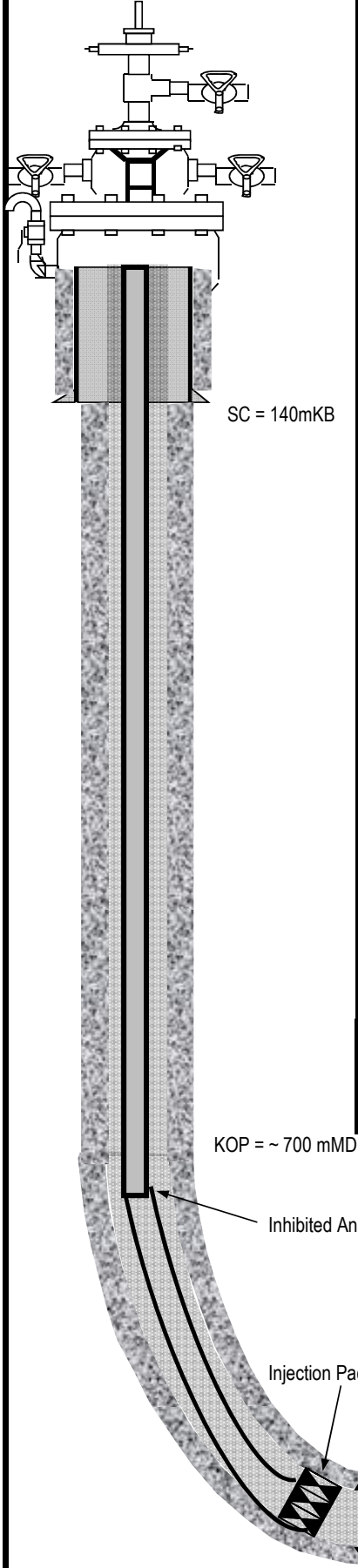
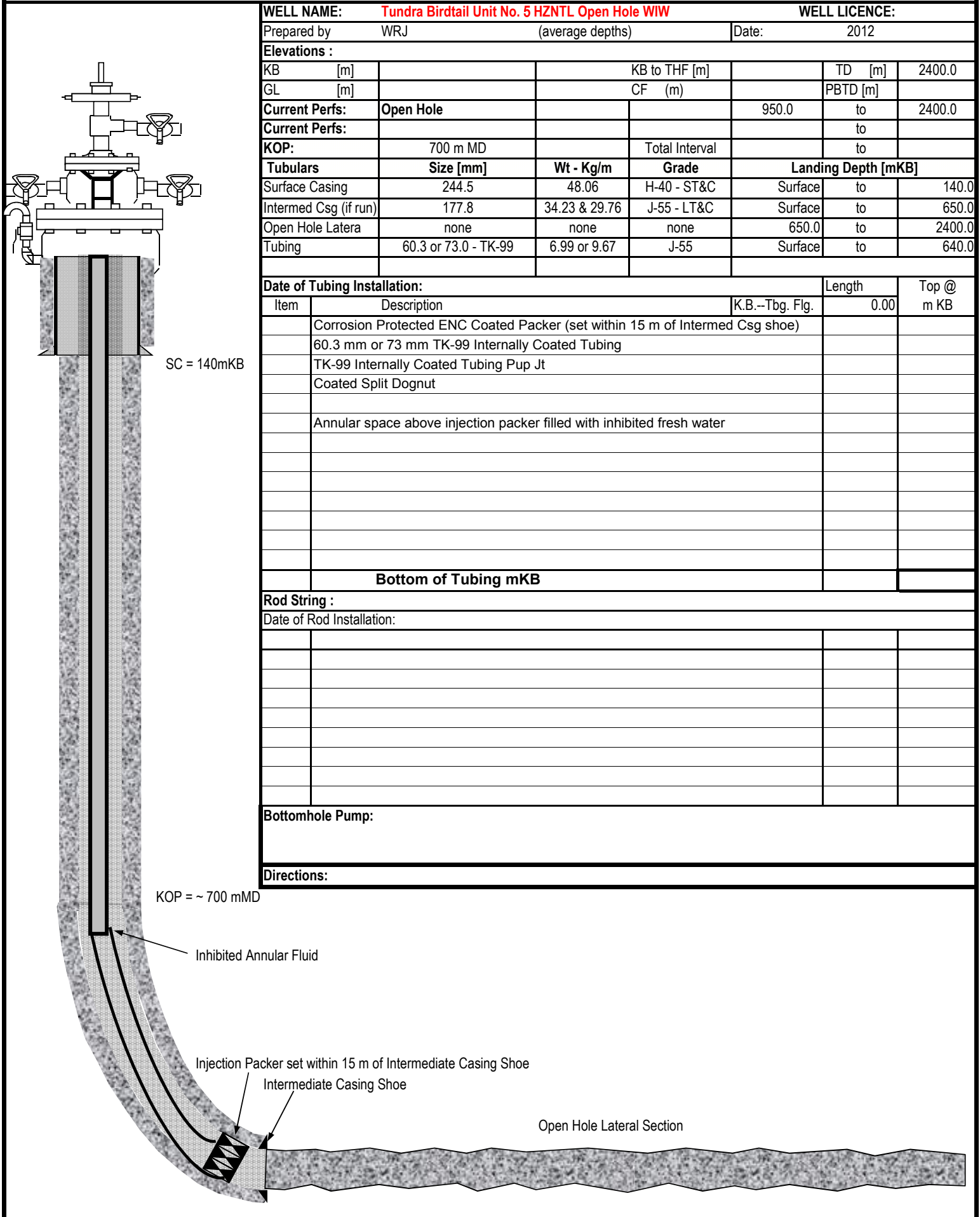
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Category:	Base + Growth 1
Aggregation:	Sum
Normalization:	None

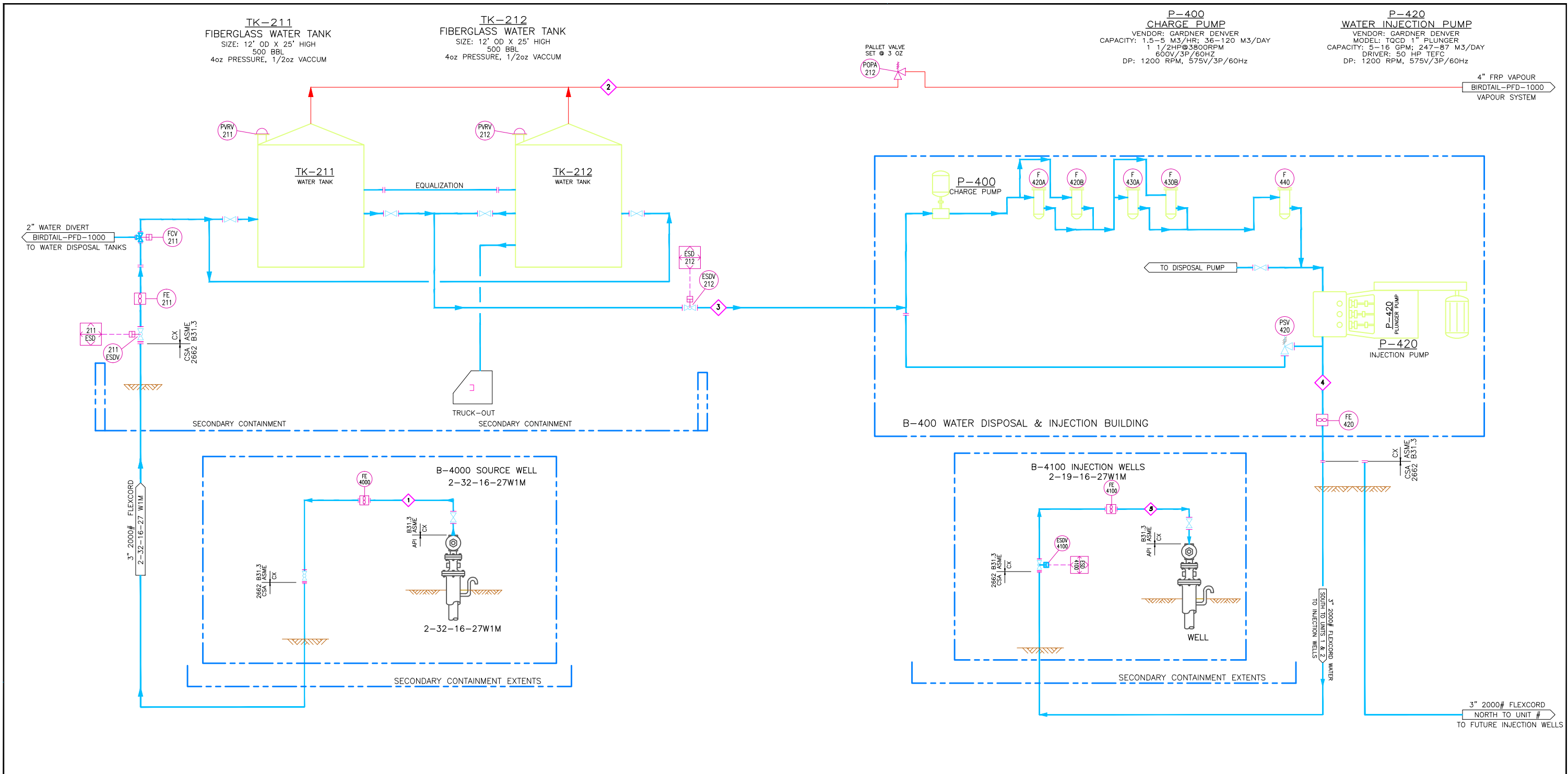
Volume Summary		
Oil	Cum (m3)	21,953
	Rem Rec (m3)	42,078
	Ult Rec (m3)	64,031
Gas	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0
Water	Cum (m3)	35,044
	Rem Rec (m3)	0
	Ult Rec (m3)	35,044
Field	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0
NGL	Cum (m3)	0
	Rem Rec (m3)	0
	Ult Rec (m3)	0

Forecast and Indicators @ Eff Date	
Product	Oil
Forecast Start	2018/11/01
Forecast End	2077/03/01
Presentation	Saved Public
Initial Rate (m3)	6.88
Final Rate (m3)	0.16
Ult Rec (m3)	64,031.32
Cum (m3)	21,953.30
Rem Rec (m3)	42,078.02
Res Life (yrs)	58.33
RLI Full Year (yrs)	2.86
Res Half Life (yrs)	17.47

Tundra Oil And Gas Partnership

TYPICAL OPEN HOLE WATER INJECTION WELL (WIW) DOWNHOLE DIAGRAM





STREAM NUMBER	1		2		3		4		5		
	OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN	
OIL	-	-	-	-	-	-	-	-	-	-	
WATER	m ³ /DAY	25	100	-	-	10	100	750	1480	25	40
PROD. EMULSION	m ³ /DAY	-	-	-	-	-	-	-	-	-	-
PROD. GAS	10 ³ m ³ /DAY	-	-	25	500	-	-	-	-	-	-
PRESSURE	PSI	500	740	2 oz	4 oz	-	-	-	750	1480	-
TEMPERATURE	°C	16	37	-	-	16	37	16	37	16	37
LINE SIZE	in.	3		4		4		3		3	

REV	DESCRIPTION	BY	DATE	CHK	APP
B	REVISIONS				
A	ISSUED FOR REVIEW	RM	22-NOV-2012	AP	JC

REFERENCE DRAWING

NOTES:

Figure No. 12

TUNDRA OIL & GAS PARTNERSHIP

BIRDTAIL
8-30-16-27- W1M

WATER FLOOD
PROCESS FLOW DIAGRAM 3 OF 3

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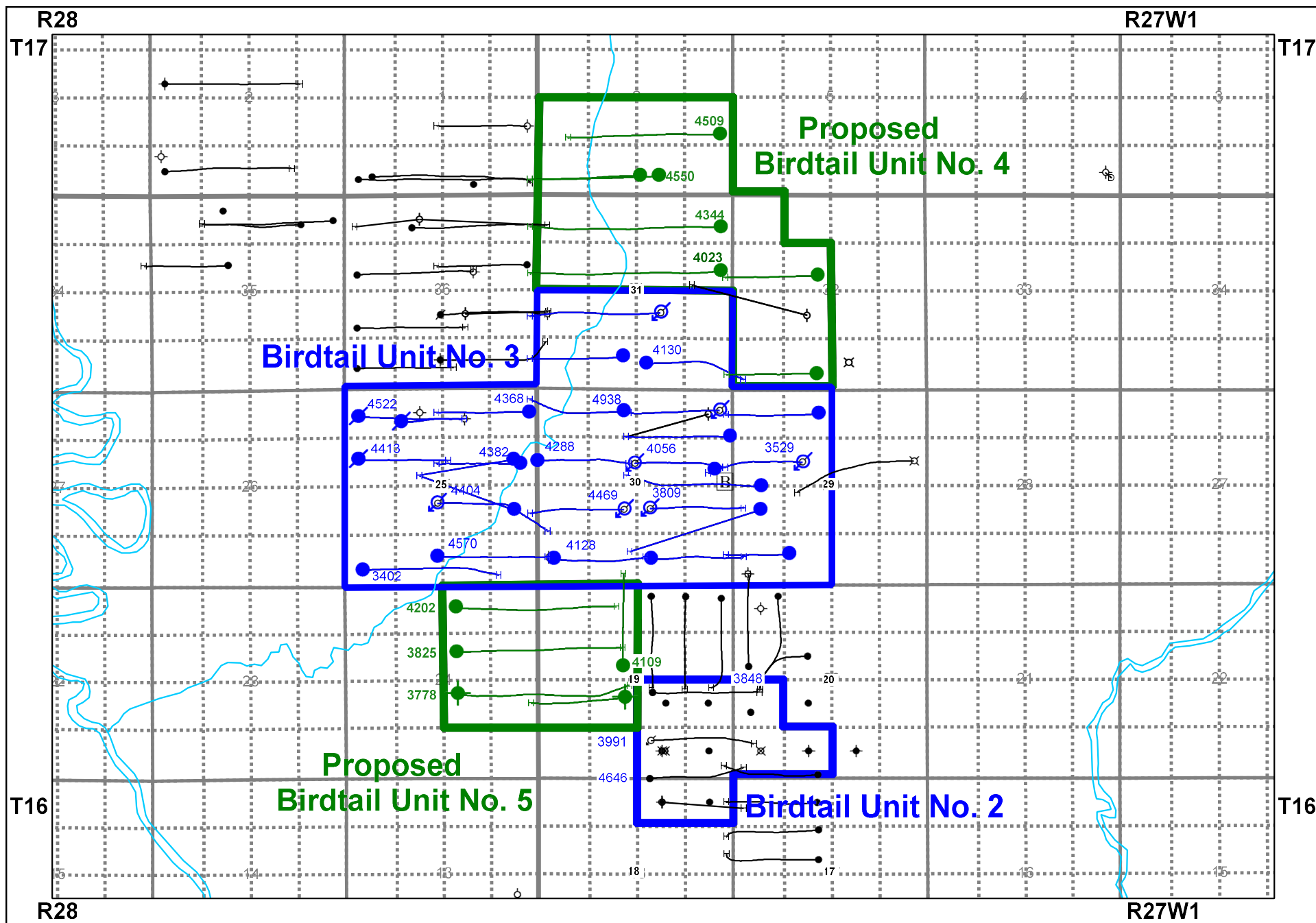


Figure 14

Datum: NAD27 Projection: Stereographic DLS Version AB: ATS 2.6, BC: PRB 2.0, SK: STS 2.5, MB: MLI07