

Proposed Sinclair Unit No. 7

Application for Enhanced Oil Recovery Waterflood Project

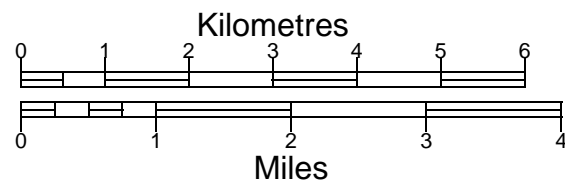
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WELL SYMBOLS

● OIL	⚡ AO	⊕ D&A	⚡ WI	⊕ PTN
○ LCT	● CMM	⊕ STN	⚡ WD	⚡ AWD
— SO	● PTO	⊕ J&A	⚡ AWI	⚡ AWS
⊕ RDR	⊕ WSC	⊕ DRL	⚡ PWI	× HZT
⚡ SWI	● OM	□ SL		



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Figure 1

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geoSCOUT
www.geologic.com

By :

Scale = 1:90000

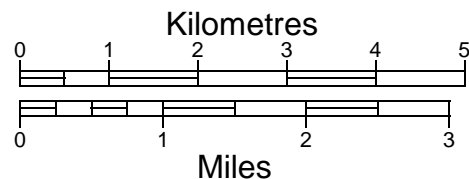
Date : 2011/05/30

Project : andrew_proje



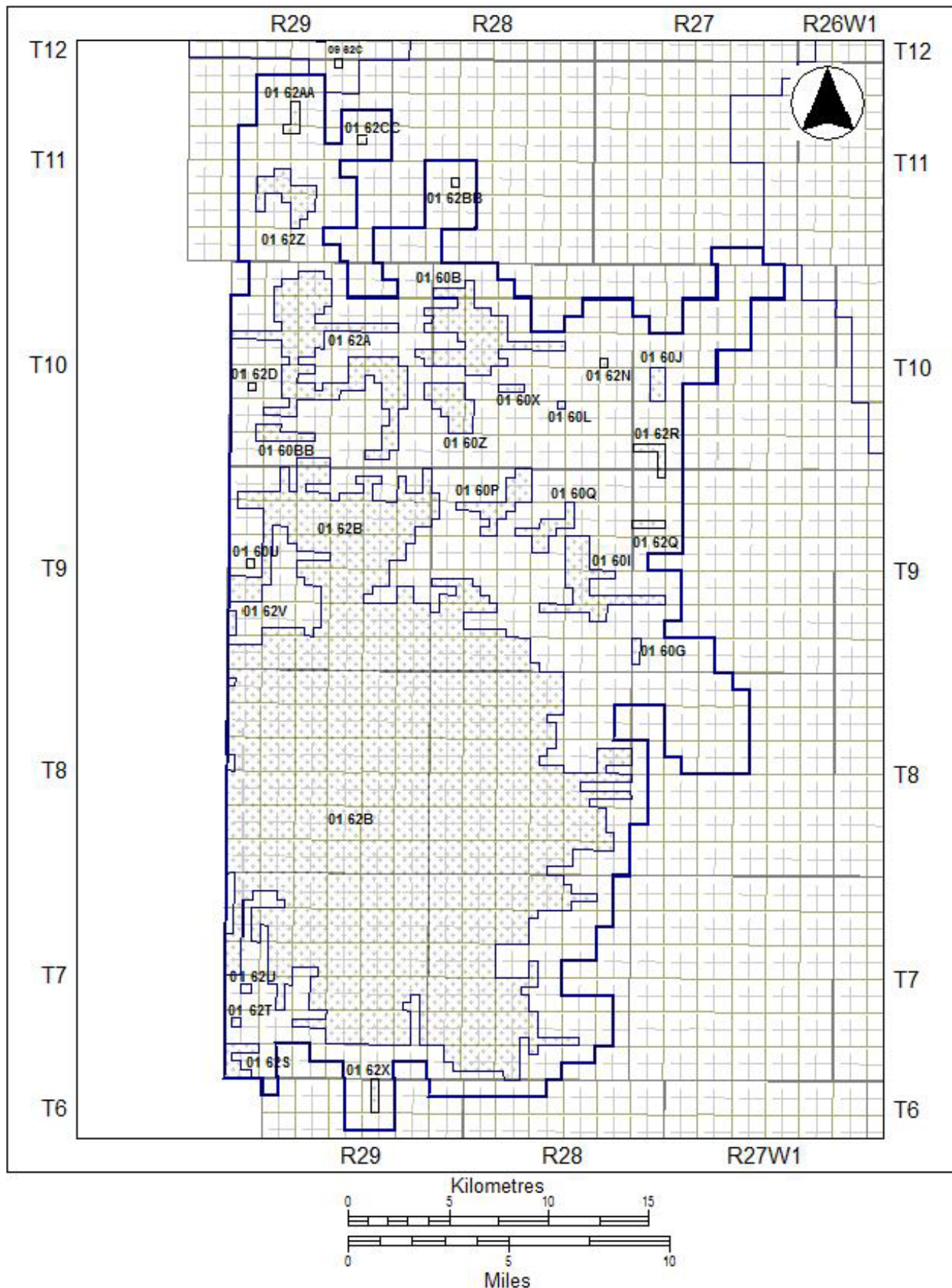
WELL SYMBOLS

● OIL	⚡ AO	⊙ D&A	⚡ WI	⊙ PTN
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Proposed Sinclair Unit 7		
Figure 2		
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Scale = 1:85000		

Figure 3



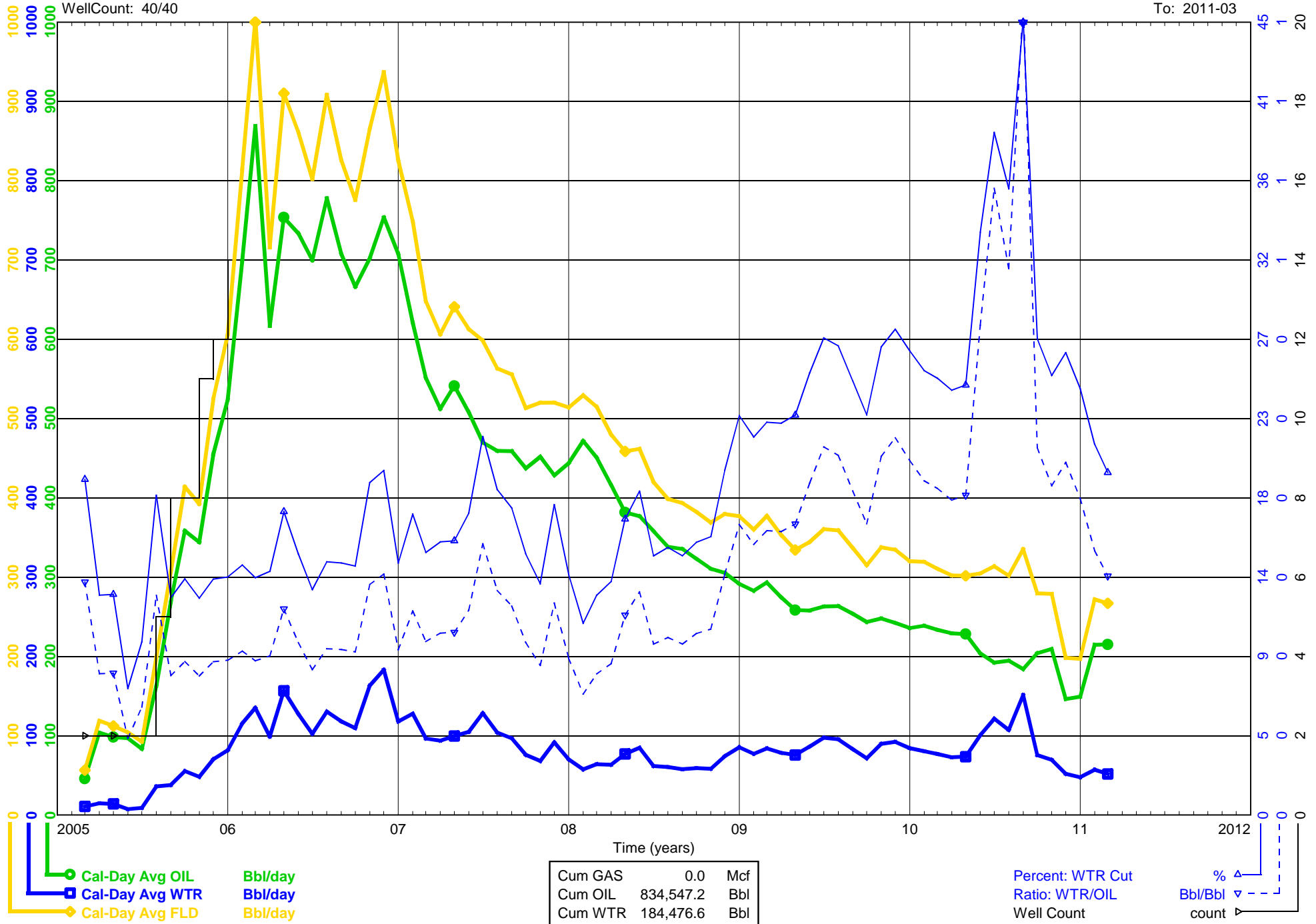
**FIGURE 14 - DALY SINCLAIR BAKKEN & BAKKEN-THREE FORKS POOLS
(01 60A - 01 60BB & 01 62A – 01 62CC)** (Drawn on the DLS System Quarter Section Grid)

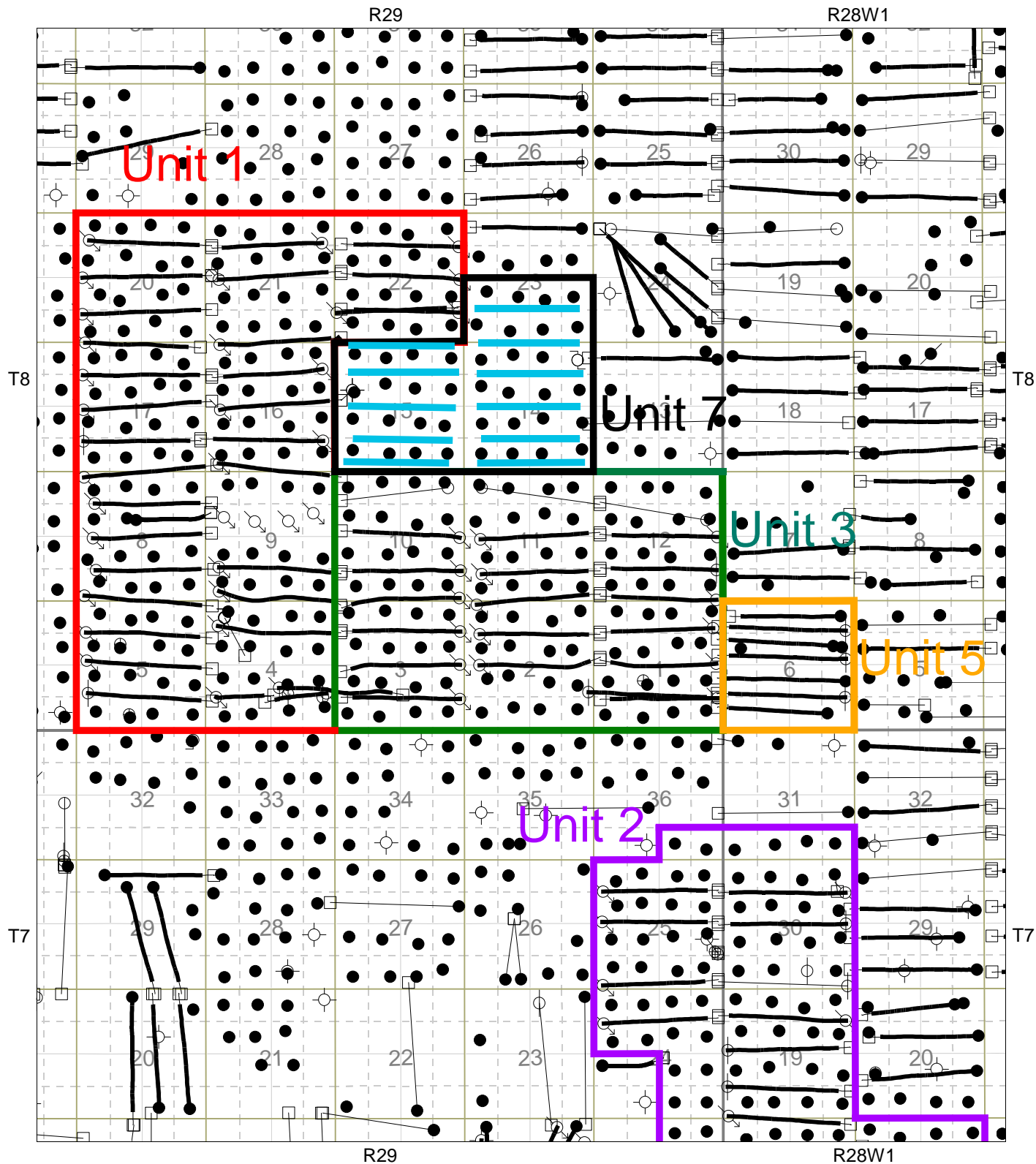
Figure 4

Data As Of: 2011-03 (MB)
WellCount: 40/40

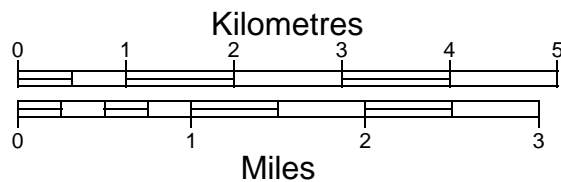
Proposed Sinclair Unit #7
Historical Group Production

From: 2005-03
To: 2011-03





WELL SYMBOLS					
● OIL	⚡ AO	⊕ D&A	⚡ WI	⊕ PTN	
○ LCT	⚡ CMM	⊕ STN	⚡ WD	⊕ AWD	
— SO	⚡ PTO	⊕ J&A	⚡ AWI	⊕ AWS	
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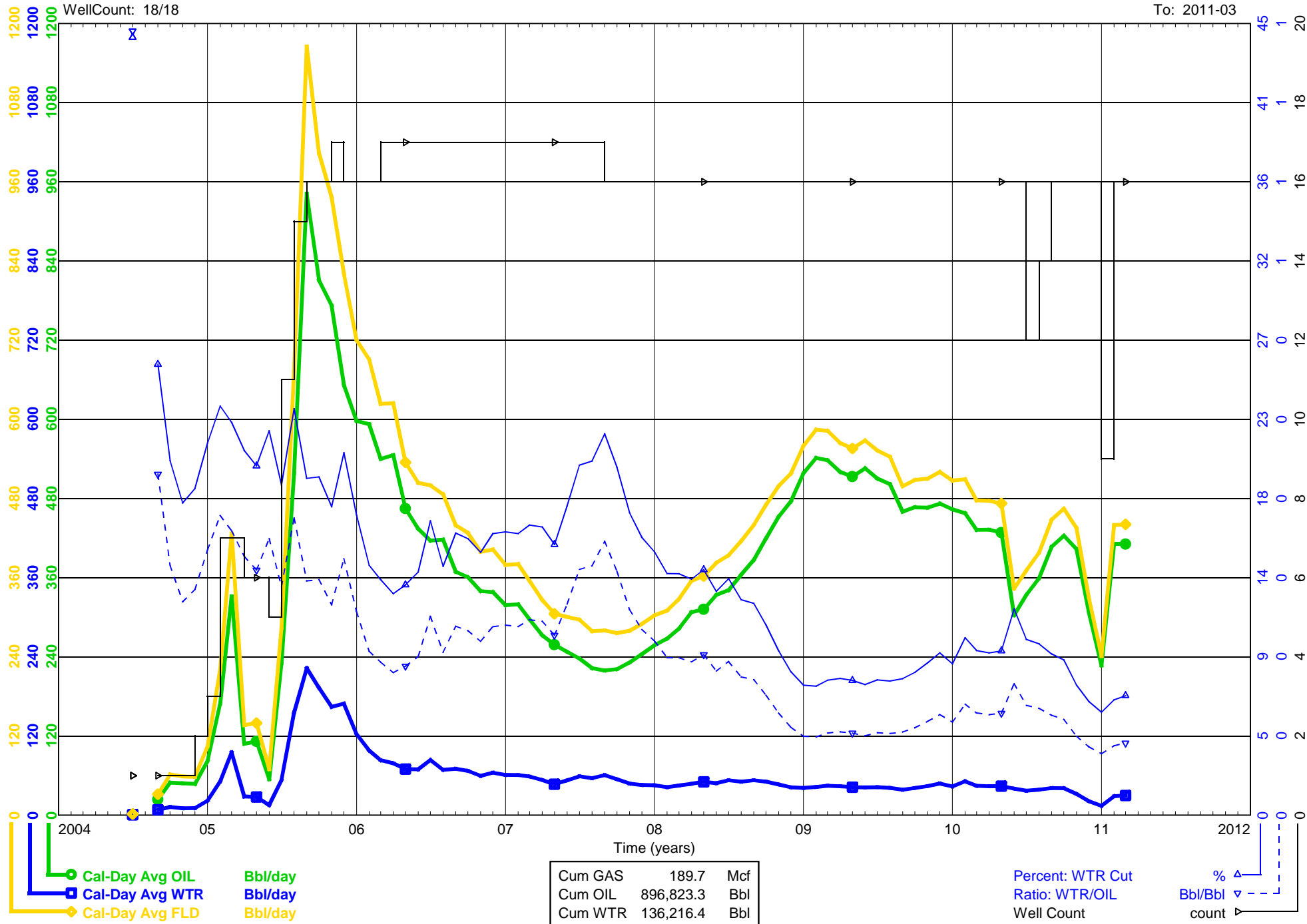
Tundra Oil and Gas Ltd		
Figure 5		
Licensed to : Tundra Oil and Gas Ltd		
By :	Date : 2011/06/01	
Scale = 1:70000	Project : andrew_proj	
		

Figure 6

Data As Of: 2011-03 (MB)
WellCount: 18/18

Sinclair Unit #1 Section 4
Waterflood Pilot Production

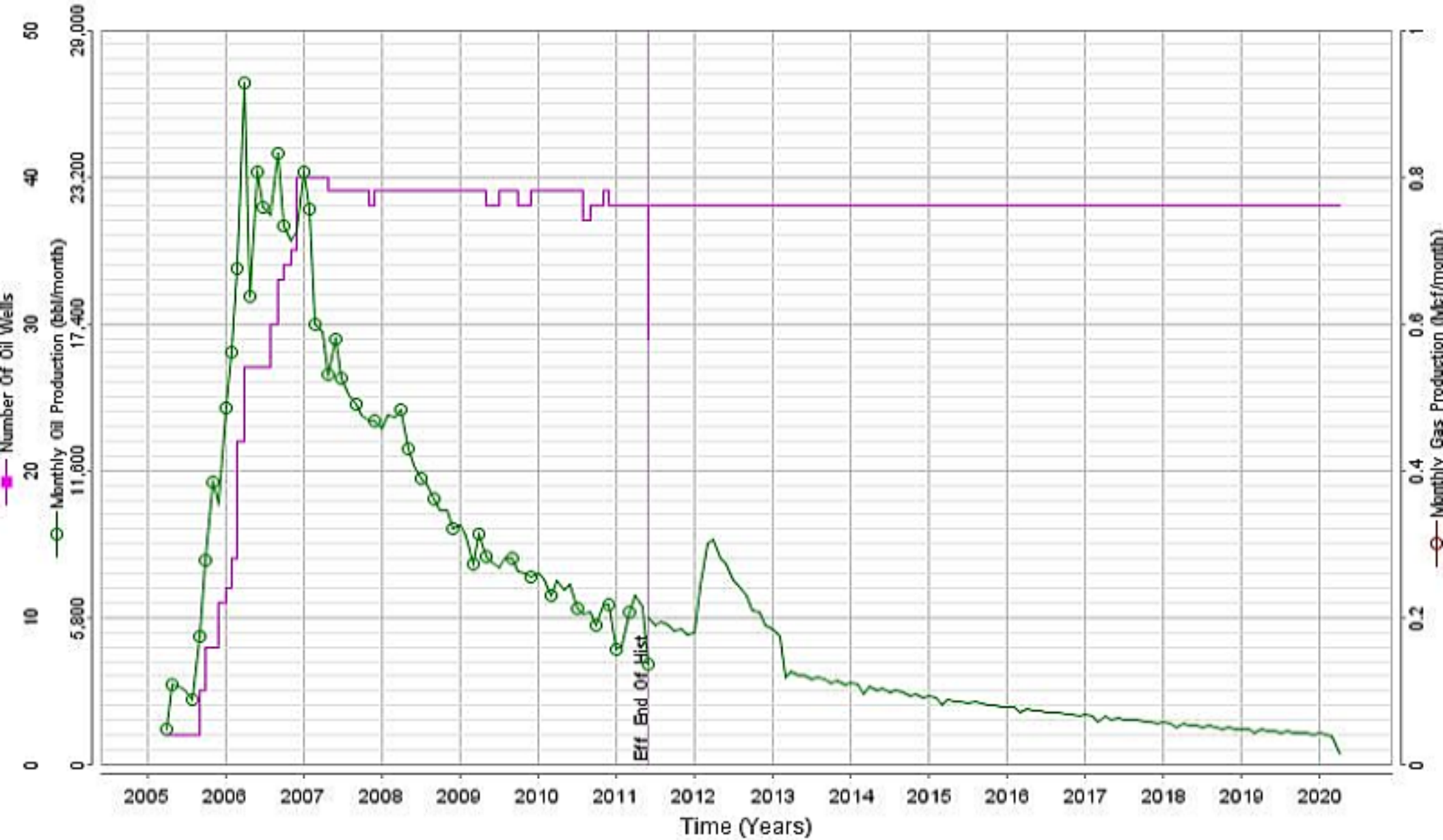
From: 2004-07
To: 2011-03



Province: Manitoba
Field: DALY
Pool: multi zone (2)
Unit: multi zone (40)
Status: OIL
Operator: TUNDRA OIL & GAS LIMITED

Figure 7

Sinclair Proposed Unit No. 7
Modified_Sinclair Proposed Unit No 7 (1)
Proved Developed Producing

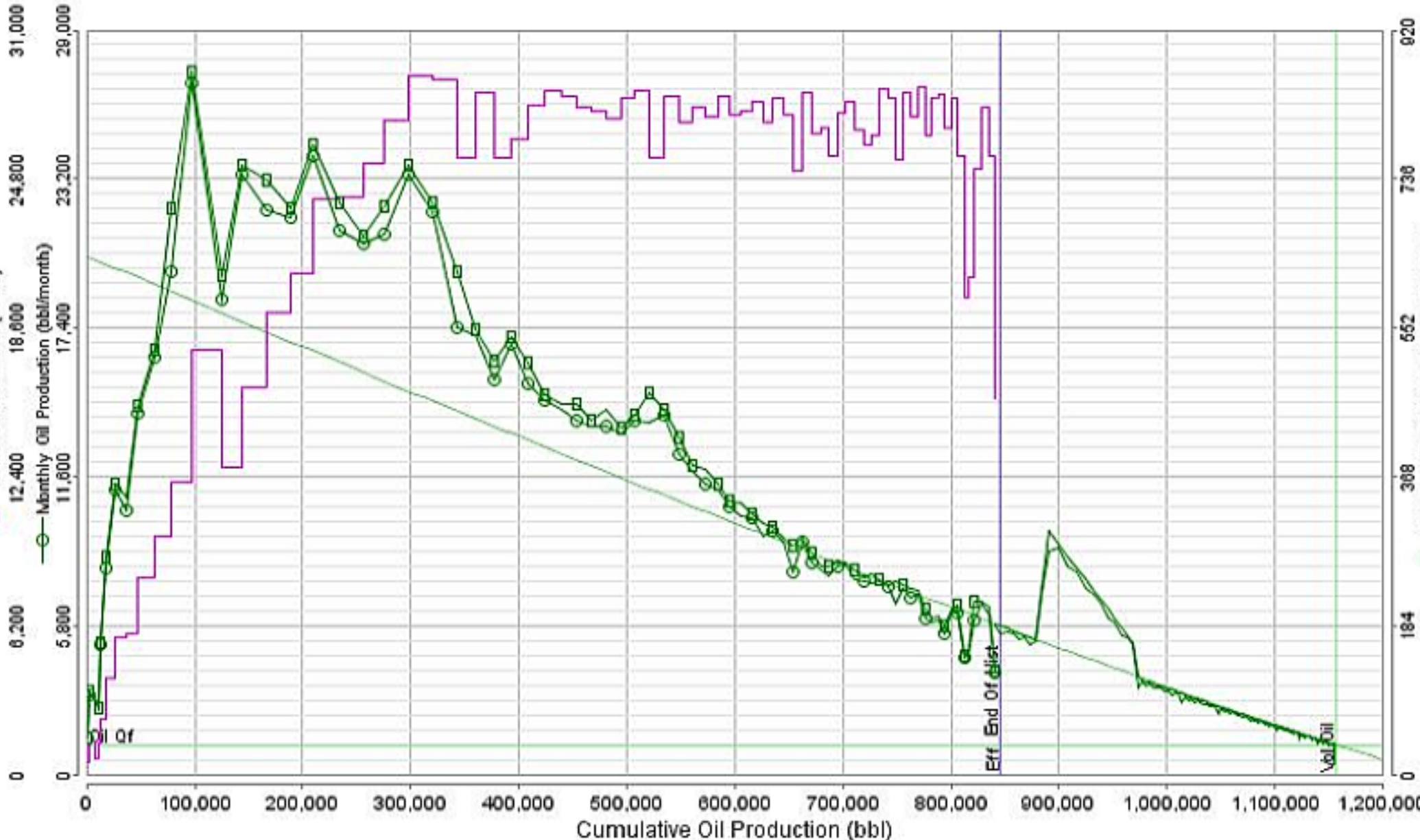


Cum Oil(bbl):	844,778	Cum Gas(Mcf):	0	Cum Water(bbl):	186,668	Cum Cond(bbl):	0
Forecast Start:	05/01/2011	Calculation Type:	Vol/Dec	Est. Cum Prod (bbl):	846,583	Decline Exponent:	0.100
Forecast End:	03/13/2020	OVIP (bbl):	11,922,400	Remaining (bbl):	309,417	Initial Decline (%/yr):	16.9
Initial Rate (bbl):	188.0	Recovery Factor:	0.097				
Final Rate (bbl):	37.5	Ult. Recoverable (bbl):	1,156,000				

Province: Manitoba
 Field: DALY
 Pool: multi zone (2)
 Unit: multi zone (40)
 Status: OIL
 Operator: TUNDRA OIL & GAS LIMITED

Figure 8

Sinclair Proposed Unit No. 7
 Modified_Sinclair Proposed Unit No 7 (1)
 Proved Developed Producing

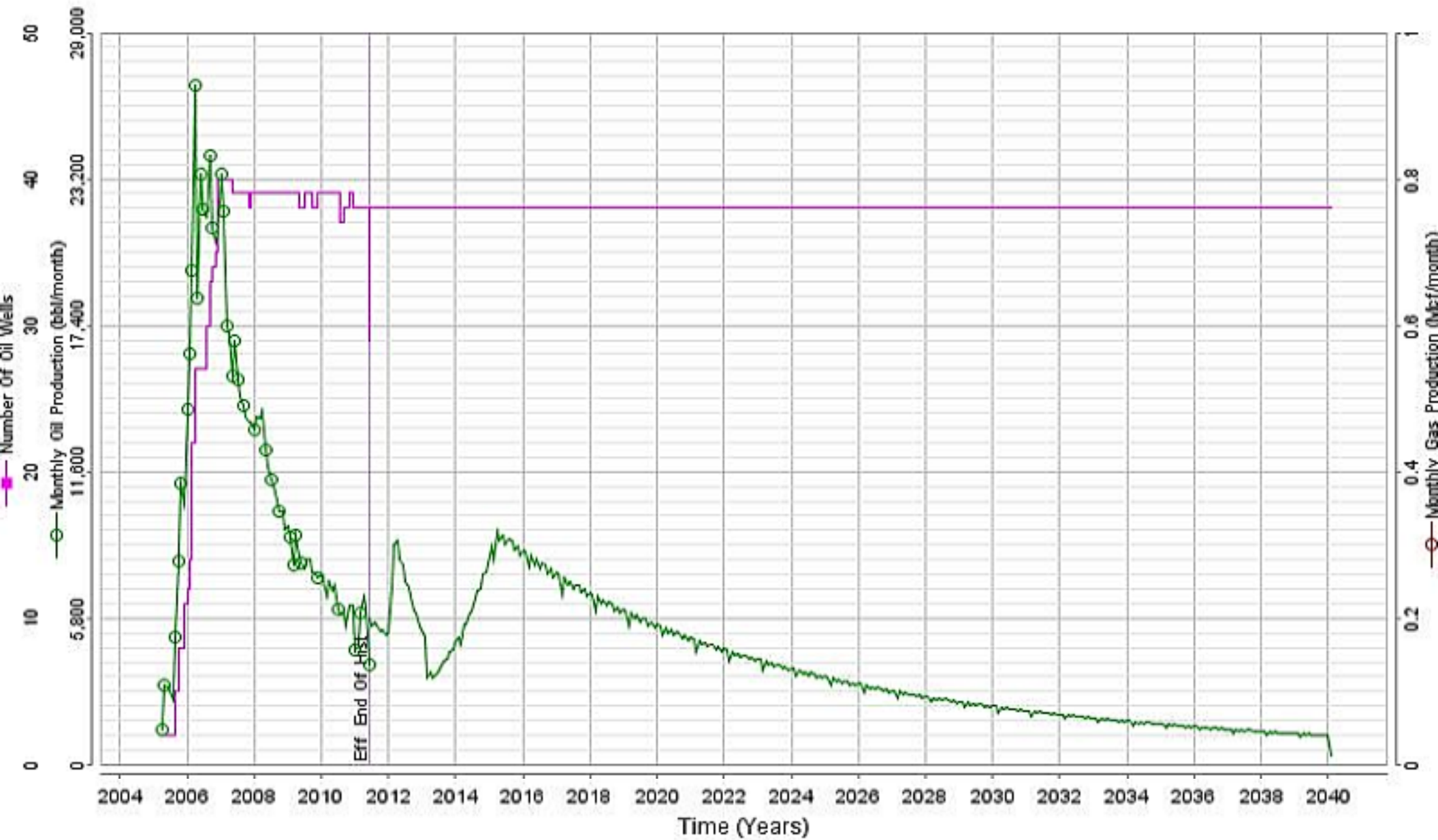


Cum Oil(bbl):	844,778	Cum Gas(Mcf):	0	Cum Water(bbl):	186,668	Cum Cond(bbl):	0
Forecast Start:	05/01/2011	Calculation Type:	Vol/Dec	Est. Cum Prod (bbl):	846,583	Decline Exponent:	0.100
Forecast End:	03/13/2020	OVIP (bbl):	11,922,400	Remaining (bbl):	309,417	Initial Decline (%/Ayr):	16.9
Initial Rate (bbl):	188.0	Recovery Factor:	0.097				
Final Rate (bbl):	37.5	Ult. Recoverable (bbl):	1,156,000				

Province: Manitoba
Field: DALY
Pool: multi zone (2)
Unit: multi zone (40)
Status: OIL
Operator: TUNDRA OIL & GAS LIMITED

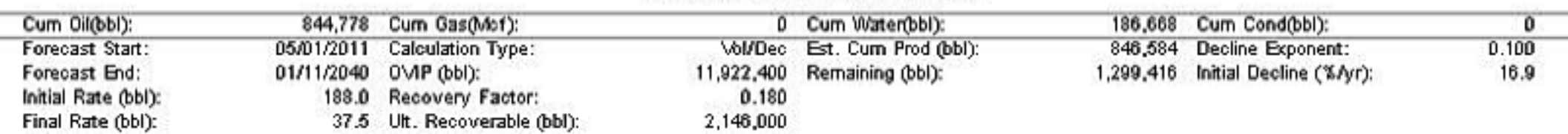
Sinclair Proposed Unit No. 7
Modified_Sinclair Proposed Unit No 7 (1)
Total Proved

Figure 9



Cum Oil(bbl):	844,778	Cum Gas(Mcf):	0	Cum Water(bbl):	186,668	Cum Cond(bbl):	0
Forecast Start:	05/01/2011	Calculation Type:	Vol/Dec	Est. Cum Prod (bbl):	846,584	Decline Exponent:	0.100
Forecast End:	01/11/2040	OVIP (bbl):	11,922,400	Remaining (bbl):	1,299,416	Initial Decline (%/yr):	16.9
Initial Rate (bbl):	188.0	Recovery Factor:	0.180				
Final Rate (bbl):	37.5	Ult. Recoverable (bbl):	2,146,000				

Sinclair Proposed Unit No. 7
Modified_Sinclair Proposed Unit No 7 (1)
Total Proved



Sinclair Water Injection System

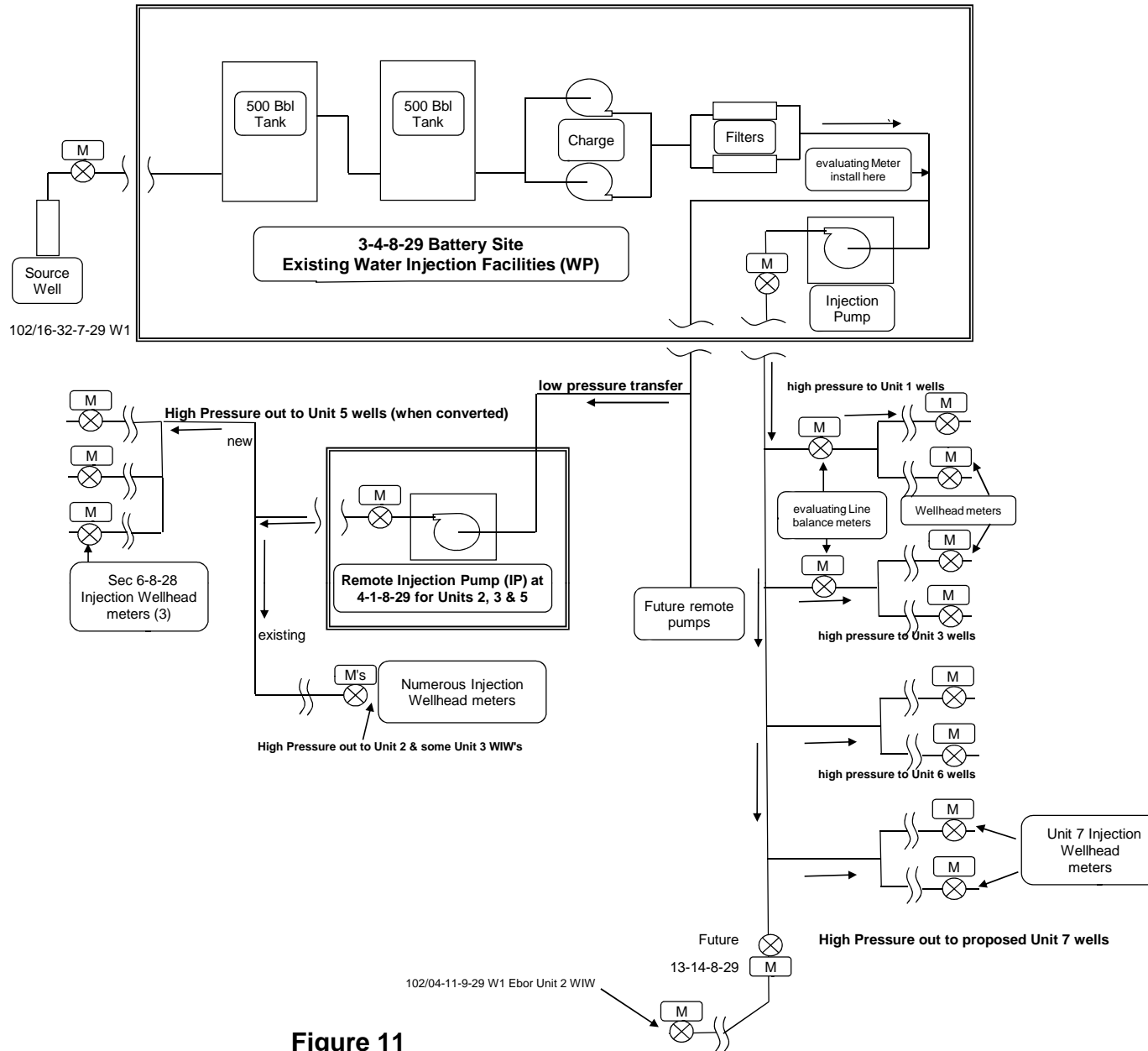


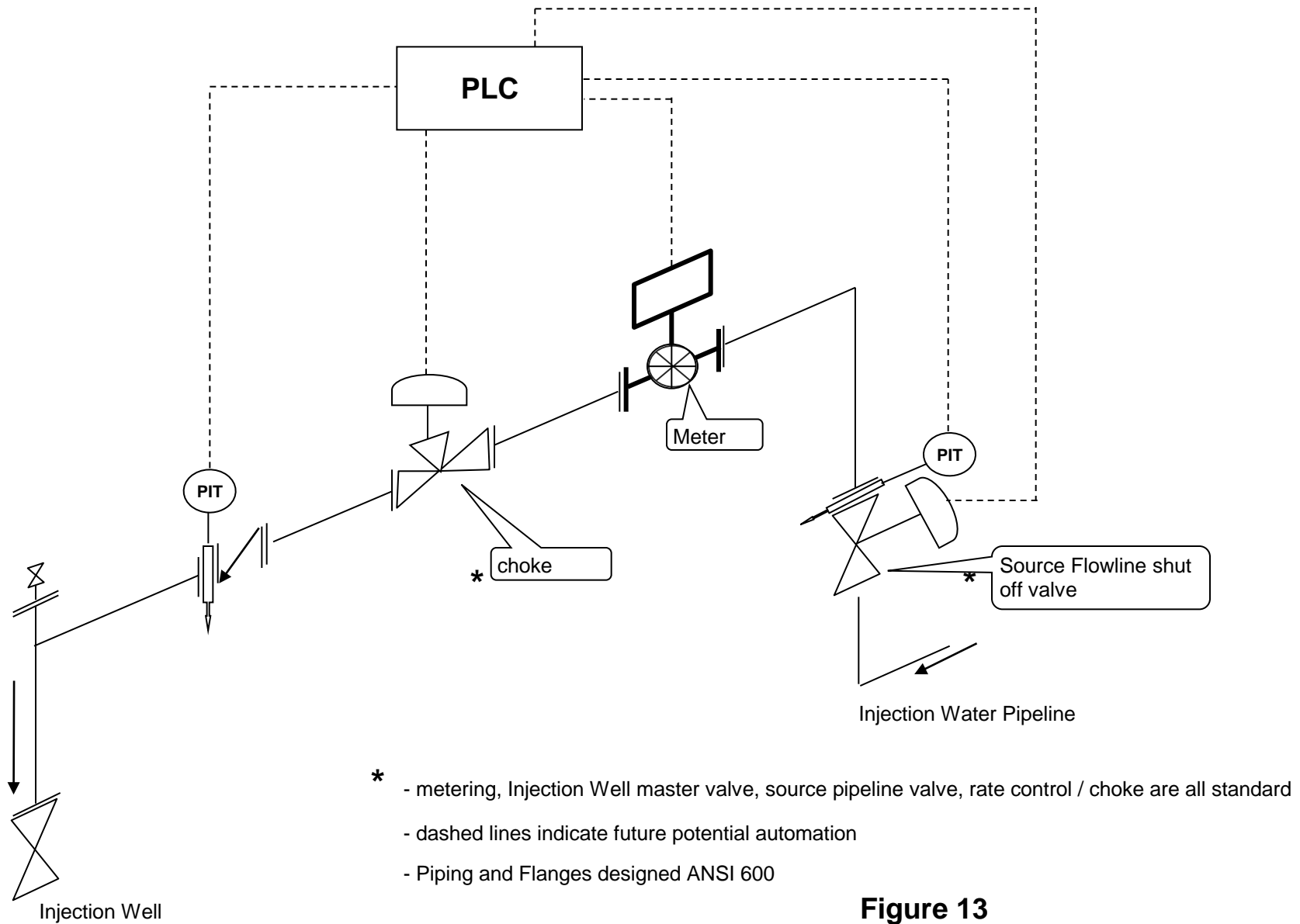
Figure 11

TYPICAL WATER INJECTION WELL DOWNHOLE DIAGRAM

Figure 12

Sinclair Unit No. 7

Proposed Injection Well Surface Piping P&ID



Sinclair Unit No. 7

EOR Waterflood Project

Planned Corrosion Control Program **

Source Well

- Continuous downhole corrosion inhibition
- Continuous surface corrosion inhibitor injection
- Downhole scale inhibitor injection
- Corrosion resistant valves and internally coated surface piping

Pipelines

- Source well to 3-4-8-29 Water Plant – Fiberglass
- New High Pressure Pipeline to Unit 7 injection wells – 2000 psi high pressure Fiberglass

Facilities

- 3-4-8-29 Water Plant and New Injection Pump Station
 - Plant piping – 600 ANSI schedule 80 pipe, Fiberglass or Internally coated
 - Filtration – Stainless steel bodies and PVC piping
 - Pumping – Ceramic plungers, stainless steel disc valves
 - Tanks – Fiberglass shell, corrosion resistant valves

Injection Wellhead / Surface Piping

- Corrosion resistant valves and stainless steel and/or internally coated steel surface piping

Injection Well

- Casing cathodic protection where required
- Wetted surfaces coated downhole packer
- Corrosion inhibited water in the annulus between tubing / casing
- Internally coated tubing surface to packer
- Surface freeze protection of annular fluid
- Corrosion resistant master valve
- Corrosion resistant pipeline valve

Producing Wells

- Casing cathodic protection where required
- Downhole batch corrosion inhibition as required
- Downhole scale inhibitor injection as required

Figure 14

** subject to final design and engineering