

R30

R29

R28W1

T3

T3

T2

T2

T1

T1

R30

R29

R28W1

WELL LEGEND

Bottom Hole Locations:

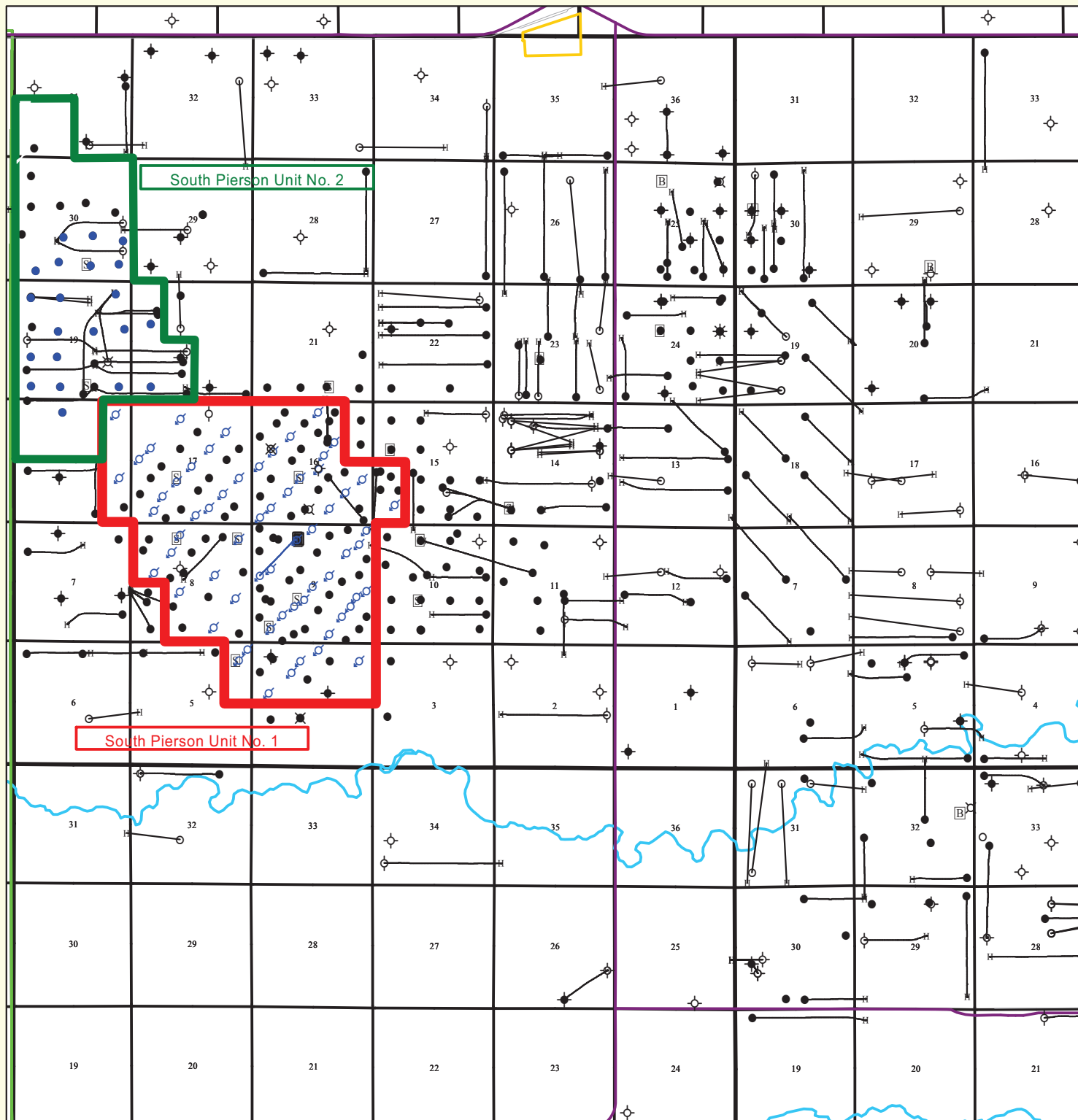
- | | |
|---------------------|-----------------|
| ○ Location | ◇ Suspended |
| ✕ Service or Drain | ● Oil |
| ◇ Dry & Abandoned | ◆ Abandoned Oil |
| ✕ Abandoned Service | ◇ Injection |

Surface Hole Locations:

- | | |
|----------------|--------------|
| —○ Directional | — Horizontal |
|----------------|--------------|

WELL LISTS

- ★ SPU No. 2 - Wells converted to injectors



Canadian Natural Resources L

Pierson Field
Figure 1

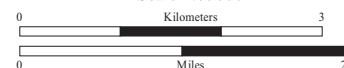
Created in AccuMap™
Product of IHS
Datum: NAD27
Vol. 22 No. 07, Jul 20 2012
(403) 770-4646

Author: Brittany Trask, EIT
Date: August 14, 2012
File: SPU 3 - Figure 1.MAP
Scale: 1 : 75000
Projection: Stereographic
Center: N49.11294 W101.26259

Grid Information:
DLS: IHS Enhanced Grid
NTS: Theoretical Grid
FPS: Theoretical Grid
US: IHS US Grid

DLS Version Information:
AB: ATS 2.6
BC: PRB 2.0
SK: STS 2.5
MB: ML107

Scale 1:75000



R30

R29

R28W1

T3

T3

T2

T2

T1

T1

R30

R29

R28W1

WELL LEGEND

Bottom Hole Locations:

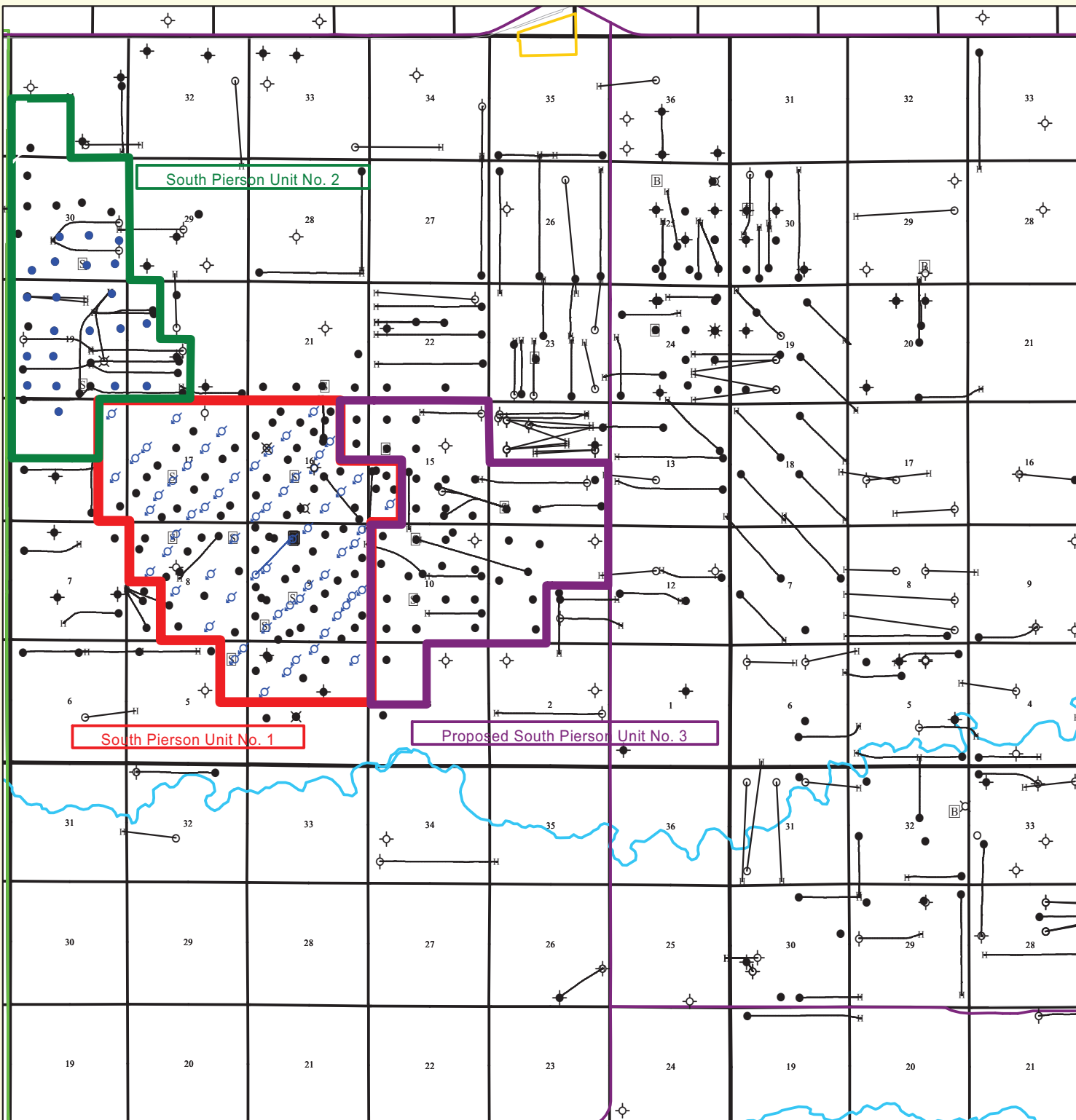
- | | |
|---------------------|-----------------|
| ○ Location | ◇ Suspended |
| ✕ Service or Drain | ● Oil |
| ◇ Dry & Abandoned | ◆ Abandoned Oil |
| ✕ Abandoned Service | ◇ Injection |

Surface Hole Locations:

- | | |
|----------------|--------------|
| —○ Directional | — Horizontal |
|----------------|--------------|

WELL LISTS


- ★ SPU No. 2 - Wells converted to injectors



Canadian Natural Resources L

Proposed Unit Boundary

Figure 2

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	Grid Information: DLS: IHS Enhanced Grid NTS: Theoretical Grid FPS: Theoretical Grid US: IHS US Grid	DLS Version Information: AB: ATS 2.6 BC: PRB 2.0 SK: STS 2.5 MB: ML107

Scale 1:75000



South Pierson Unit No. 3 – Historical Production

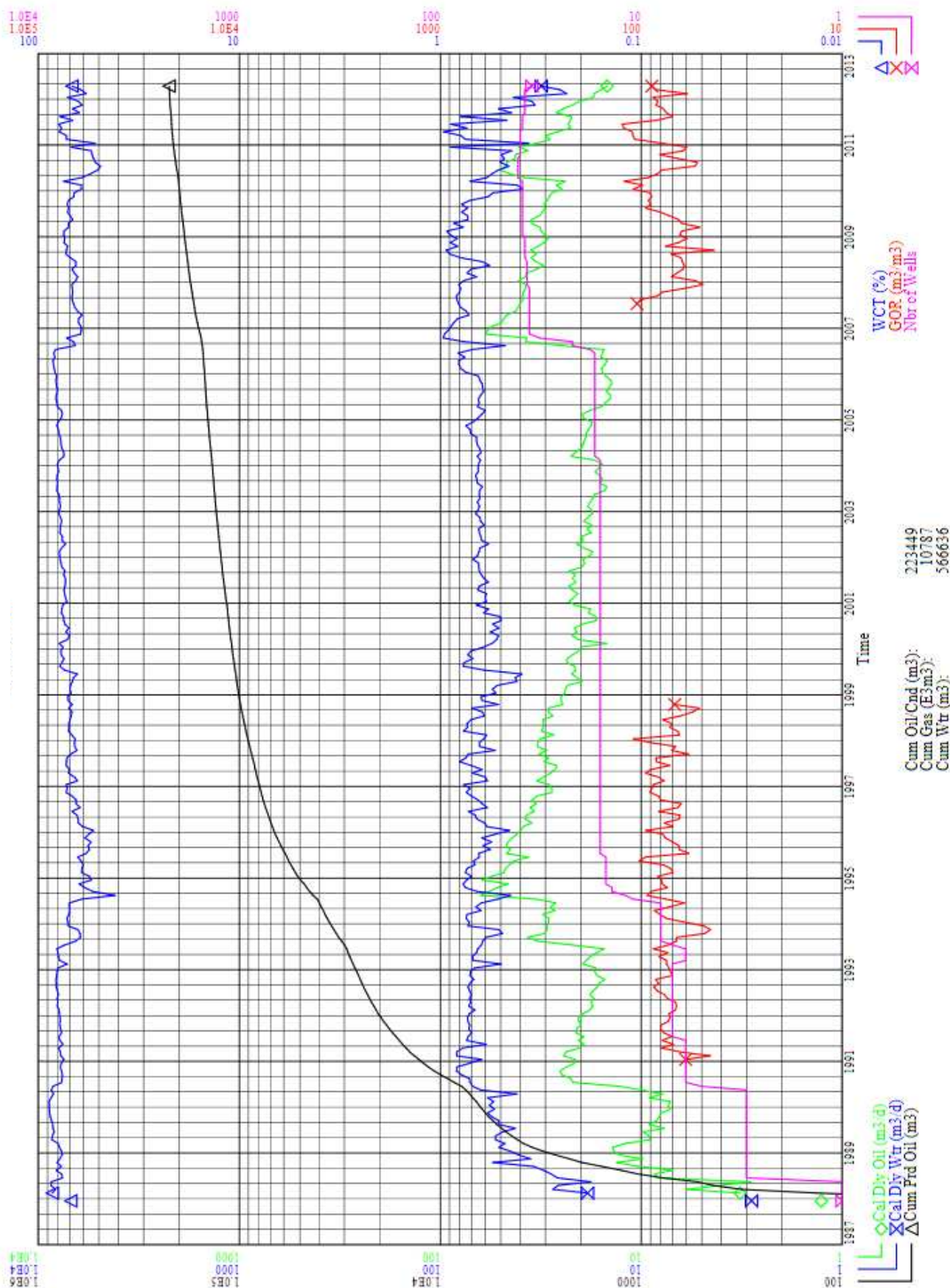


Figure 3. South Pierson Unit No. 3 – Historical Production

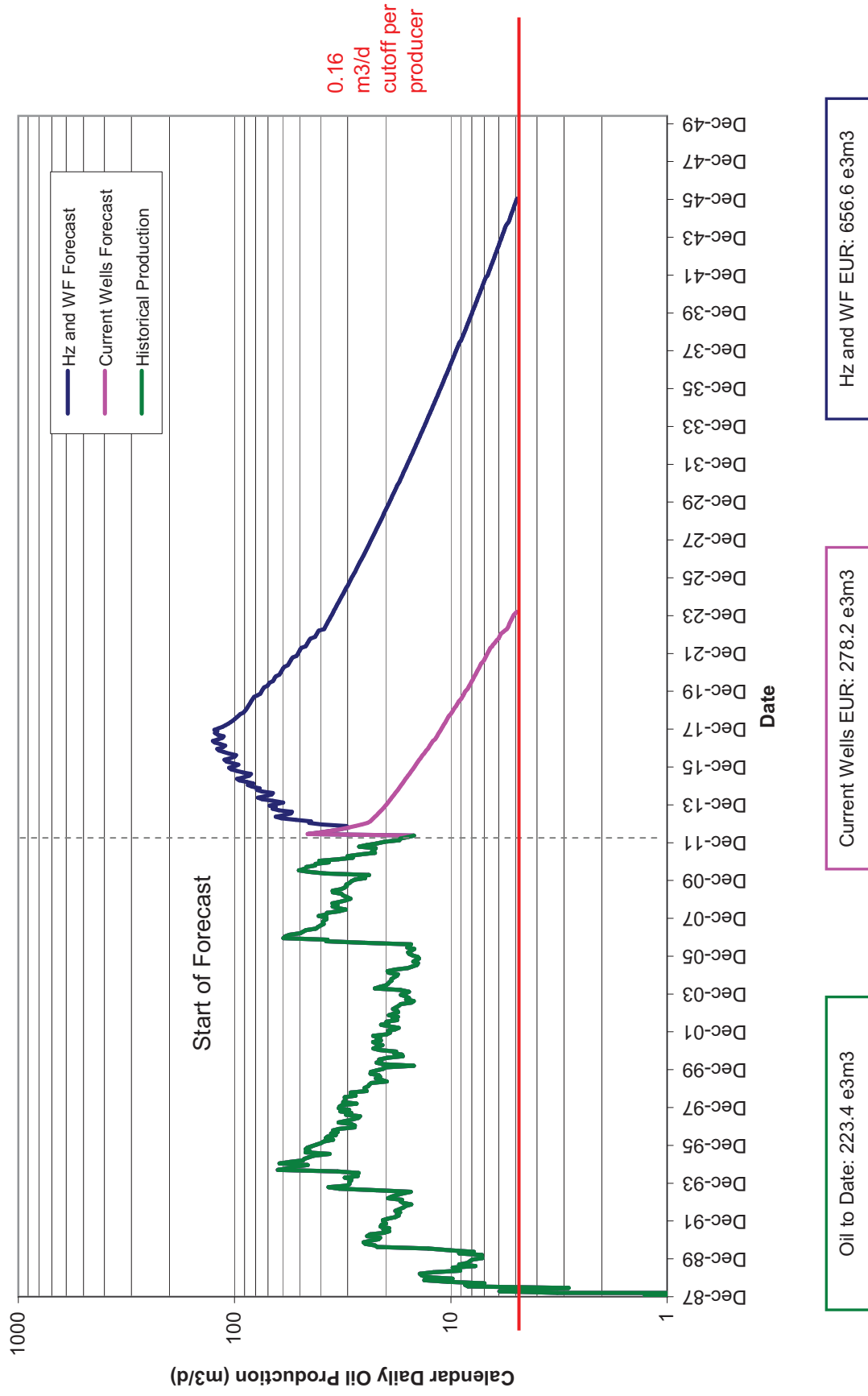


Figure 4. South Pierson Unit No. 3 Production Forecast - Oil Rate versus Time

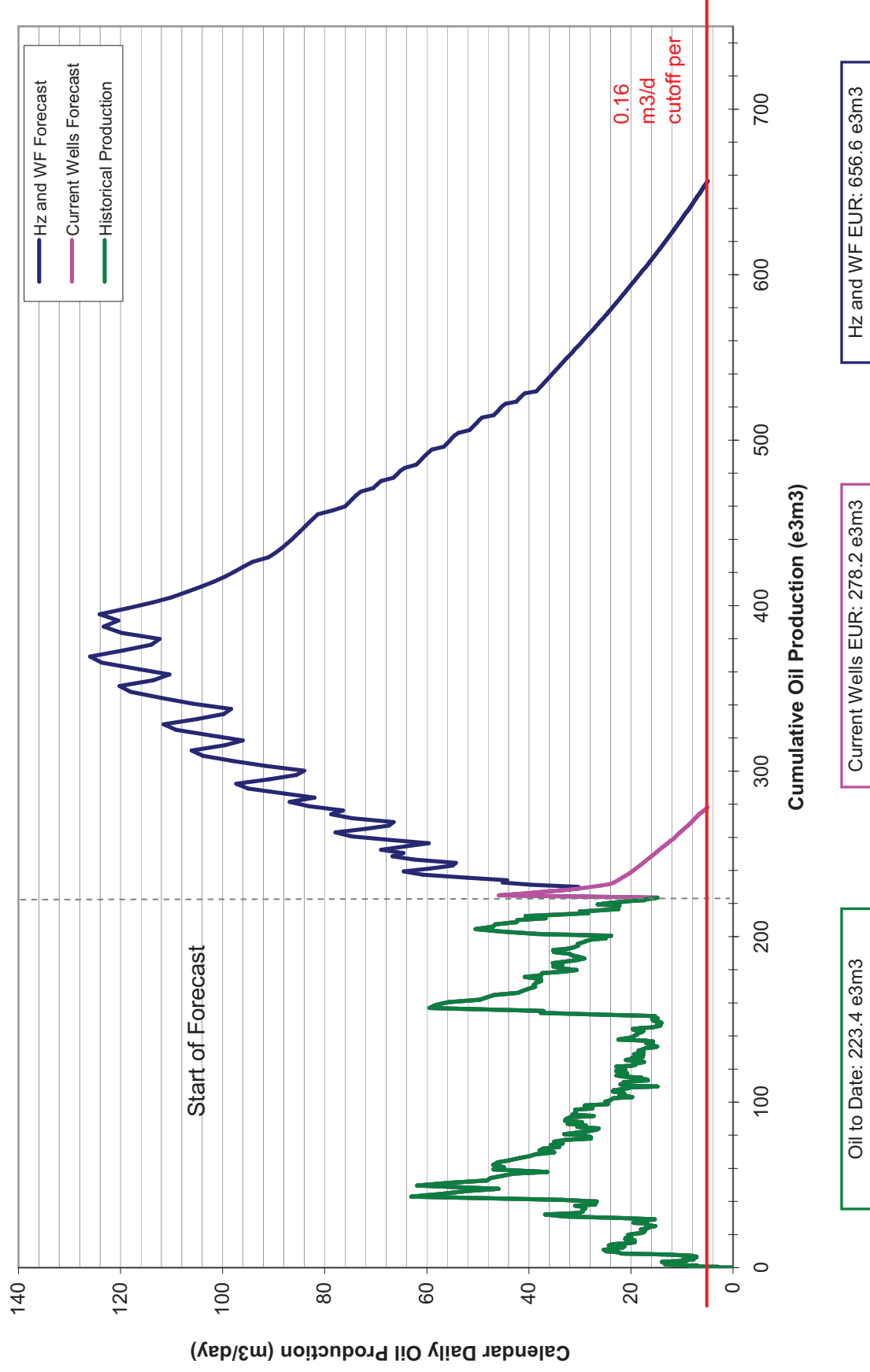


Figure 5. South Pierson Unit No. 3 Production Forecast - Oil Rate versus Cumulative Oil

South Pierson Unit No. 1 – Historical Production

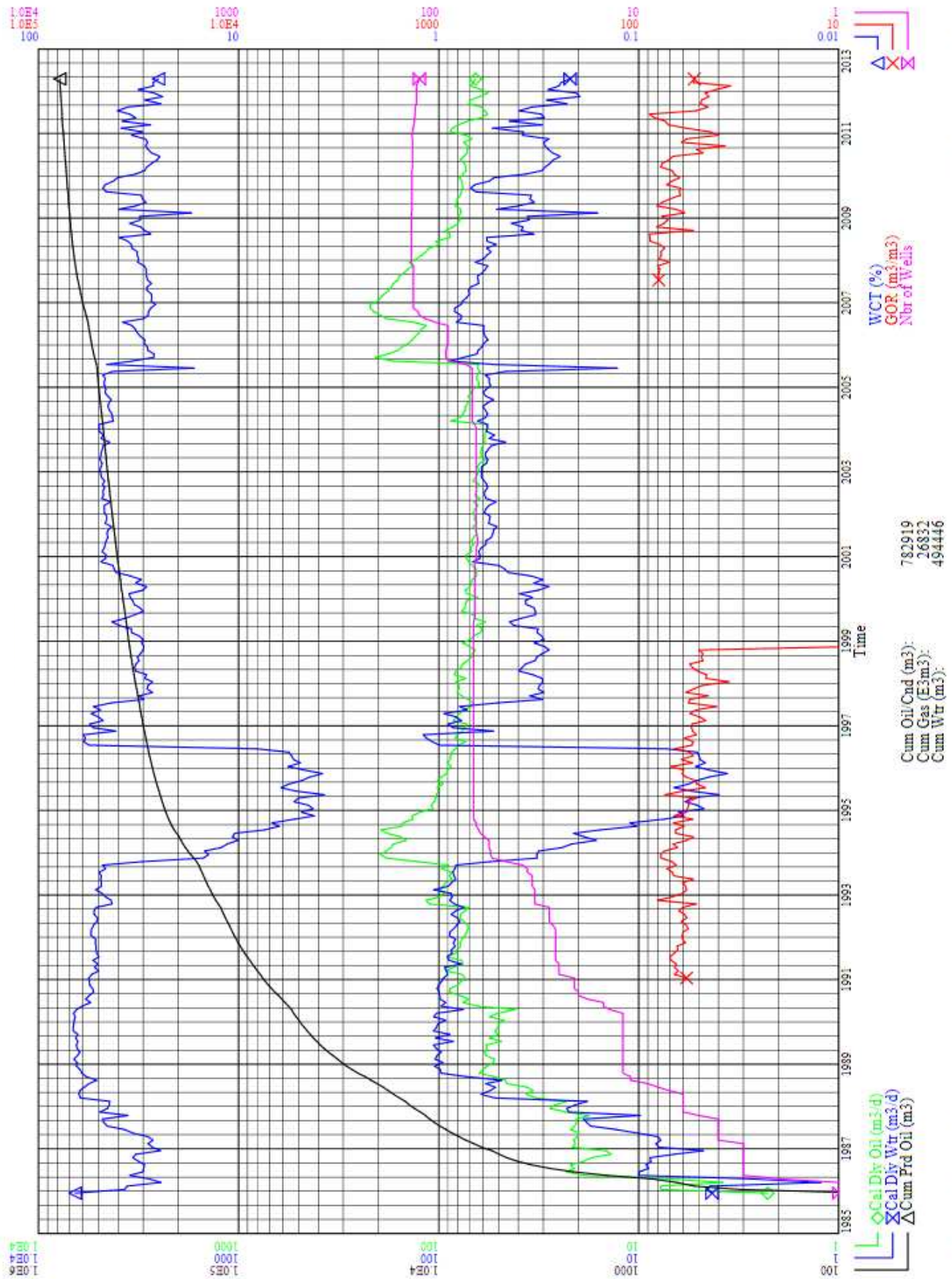


Figure 6. South Pierson Unit No. 1 - Historical Production

South Pierson Unit No. 1

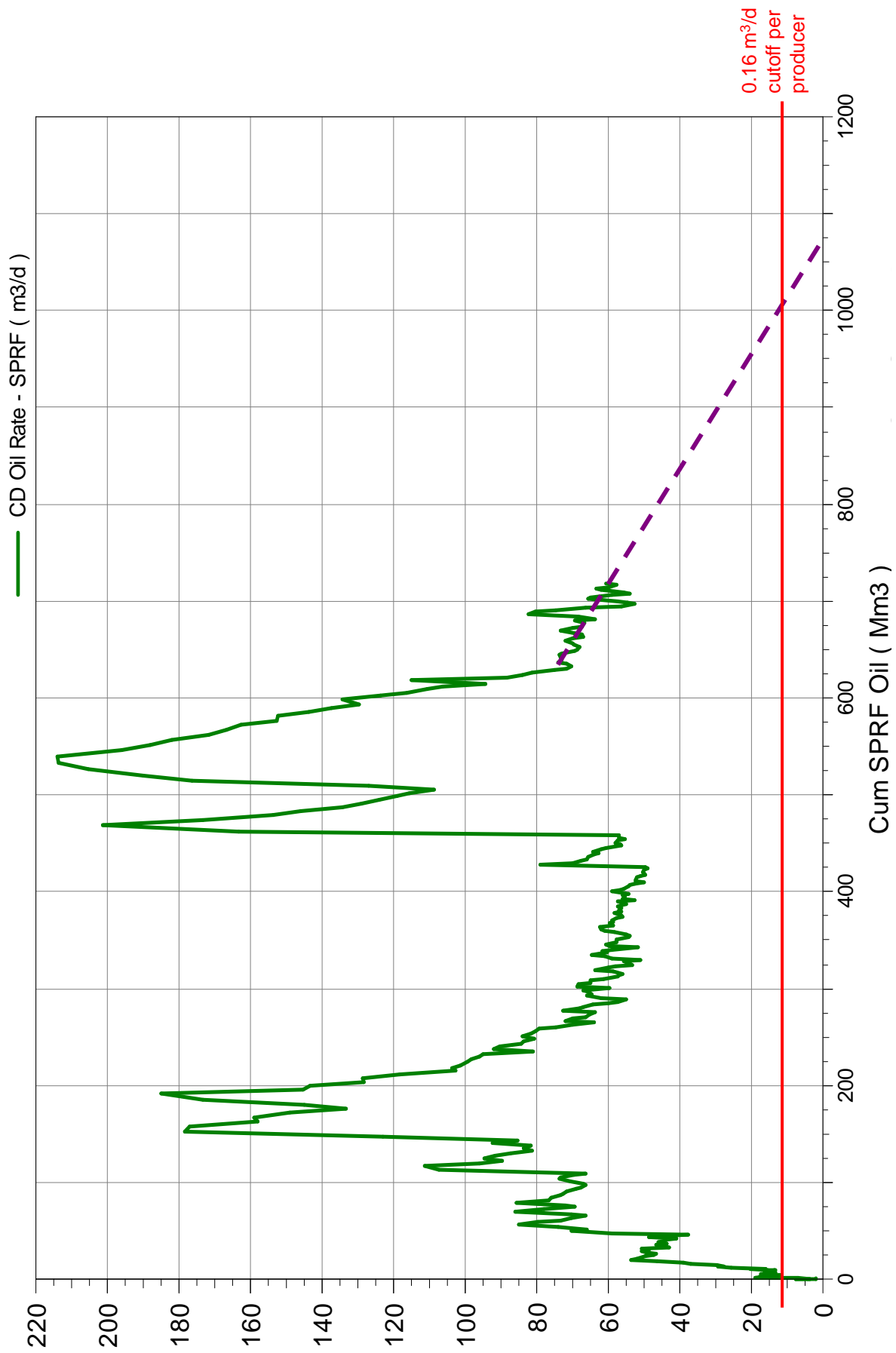


Figure 7. South Pierson Unit No. 1 – Spearfish Production Forecast

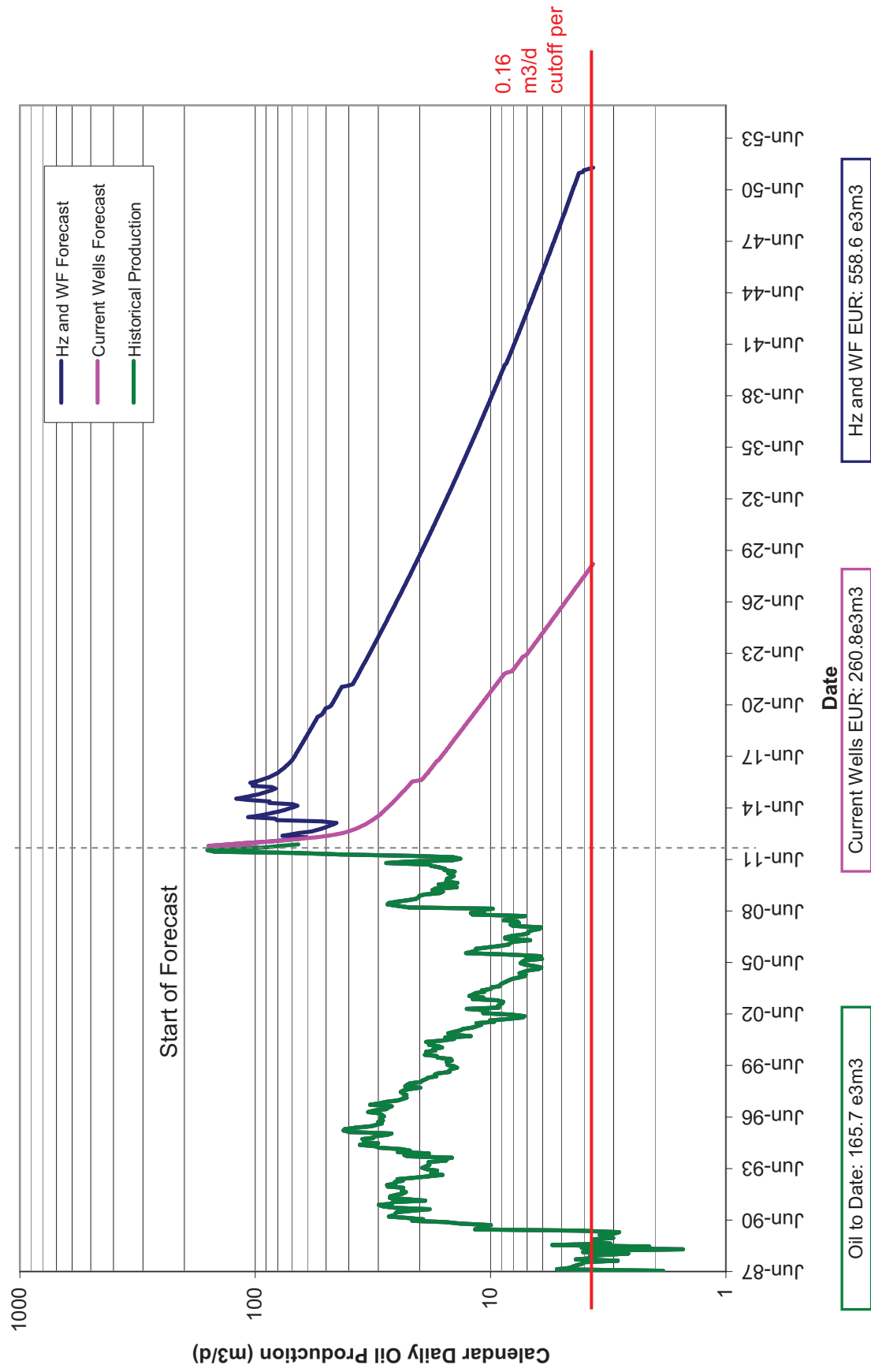


Figure 8. South Pierson Unit No. 2 Production Forecast - Oil Rate versus Time

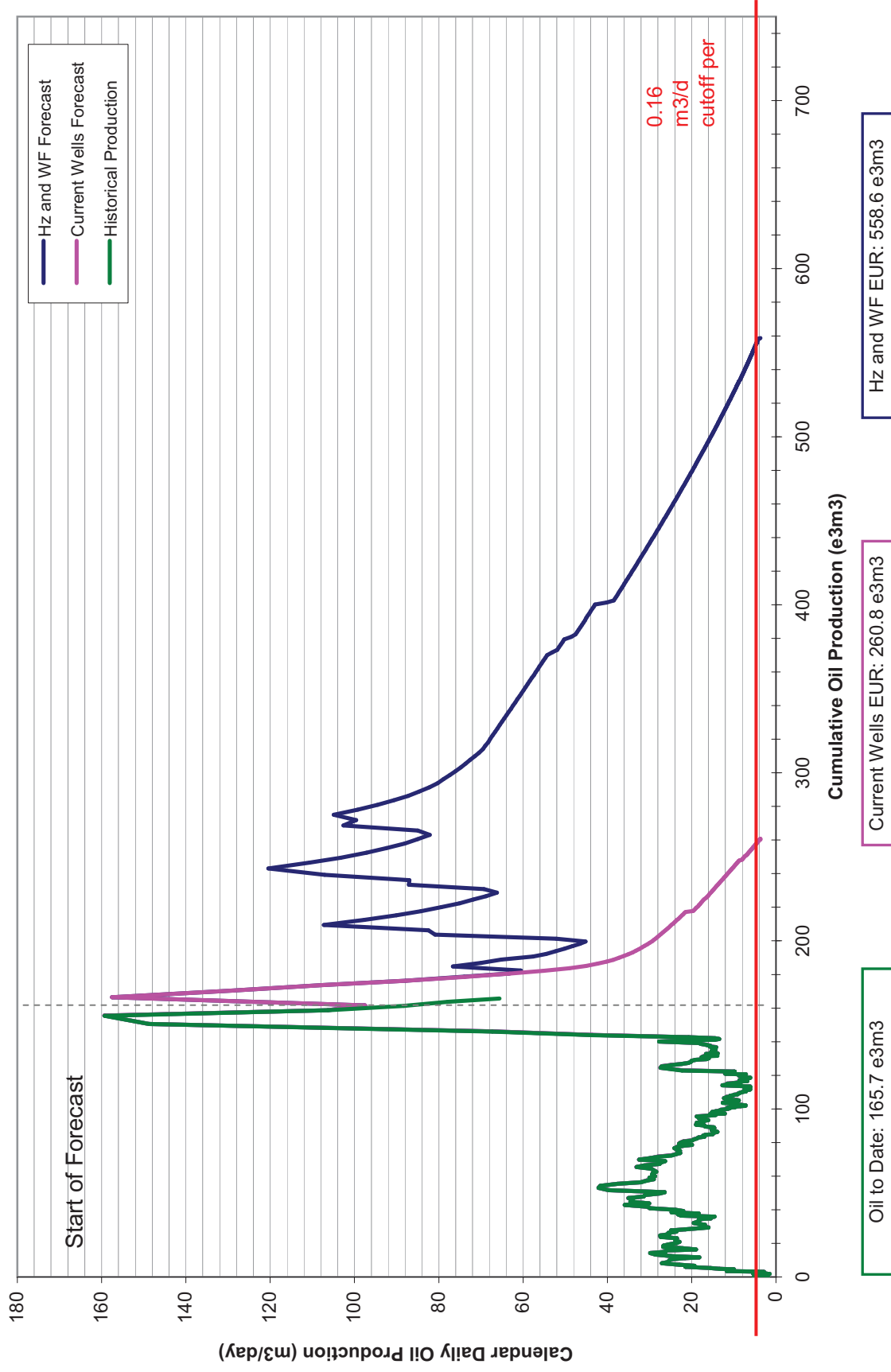
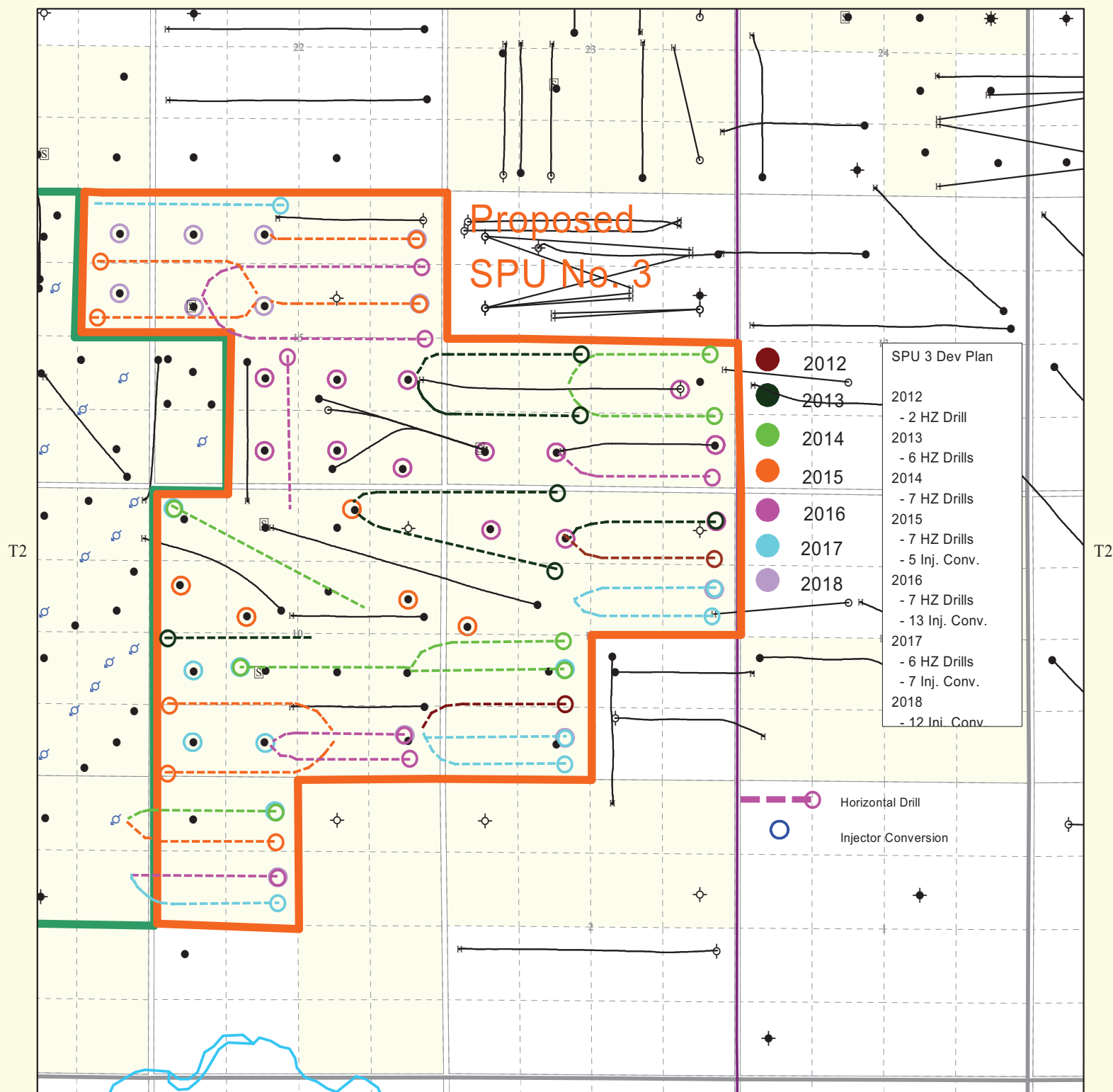


Figure 9. South Pierson Unit No. 2 Production Forecast - Oil Rate versus Cumulative Oil

R29W1



T2

T2

R29W1

WELL LEGEND**Bottom Hole Locations:**

- | | |
|--------------------|-----------------|
| ○ Location | ◇ Suspended |
| ✕ Service or Drain | ● Oil |
| ◇ Dry & Abandoned | ◆ Abandoned Oil |
| ◇ Injection | |

Surface Hole Locations:

- Horizontal

PROPRIETARY DATA LEGEND**Regions:**

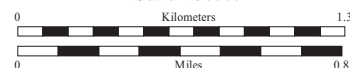
- CNRL Proprietary Land
Solid

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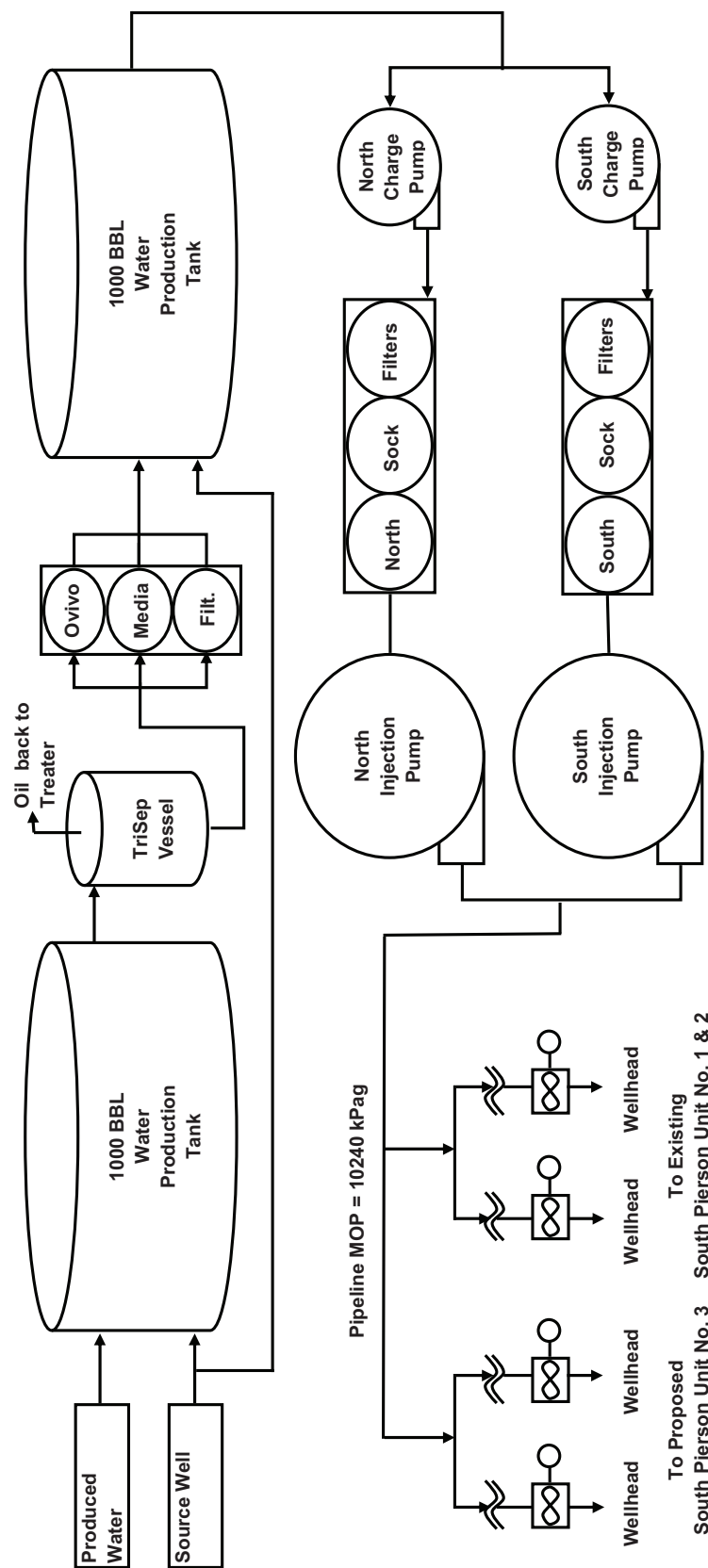
South Pierson Unit No. 3
Figure 10 - Development Plan

	Created in AccuMap™ Product of IHS Datum: NAD27 Vol. 22 No. 07, Jul 20 2012 (403) 770-4646 Copyright © 1991-2012	Author: Lennon Roche Date: August 13, 2012 File: SPU3 Hz Dev Plan - Rev 3 (Timi) Scale: 1 : 30000 Projection: Stereographic Center: N49.11470 W101.26326
	Grid Information: DLS: IHS Enhanced Grid NTS: Theoretical Grid FPS: Theoretical Grid US: IHS US Grid	DLS Version Information: AB: ATS 2.6 BC: PRB 2.0 SK: STS 2.5 MB: ML107

Scale 1:30000



Pierson 14-09-02-29W1M Battery: Water Injection



- All equipment downstream of the North and South injection pumps are limited by MOP of pipe installed in 1994 (MOP = 10240 kPag)

Figure 11 - Injection Facilities Process Flow Diagram