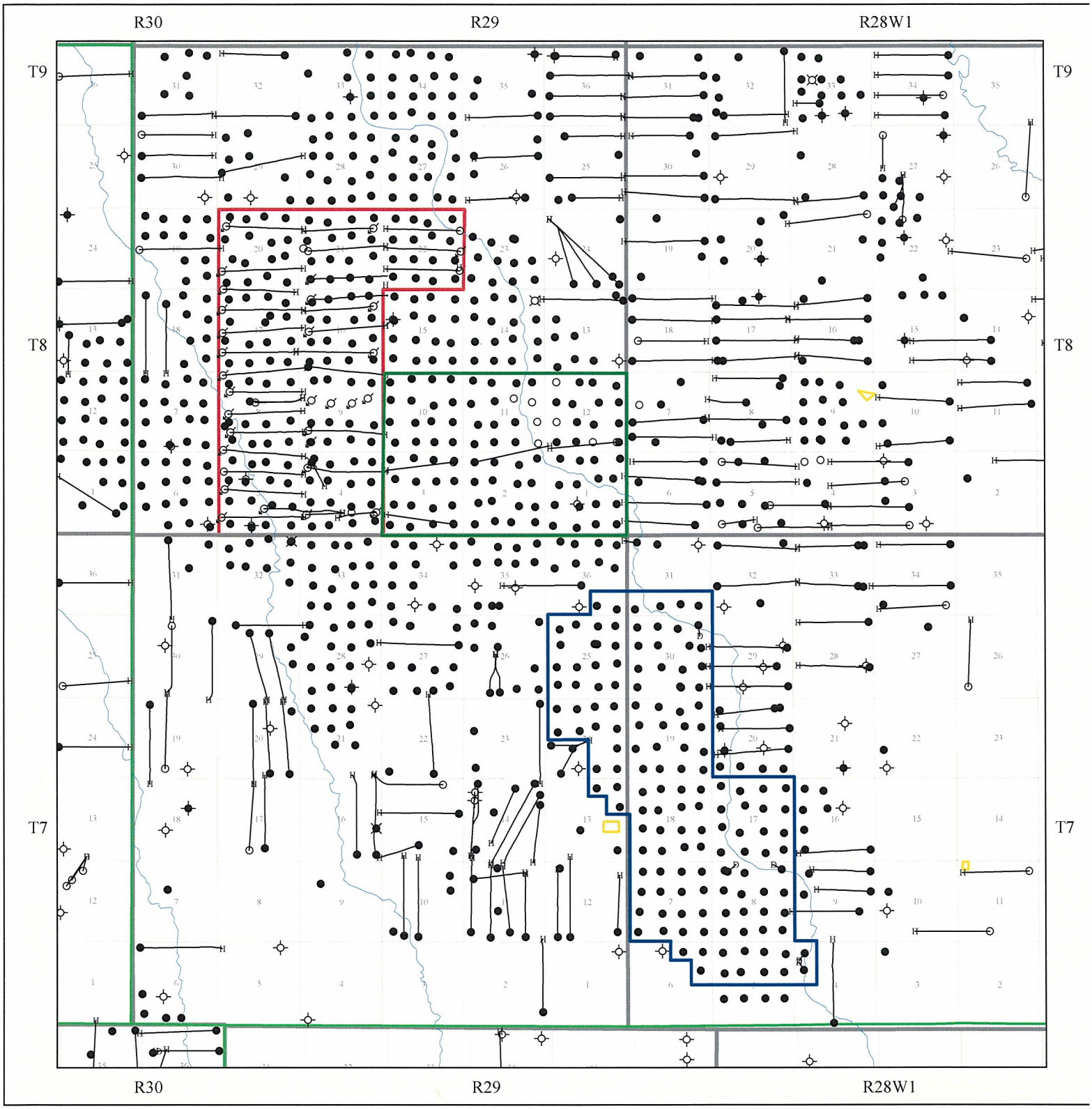
Proposed Sinclair Unit No. 5

Application for Enhanced Oil Recovery Waterflood Project

LIST OF FIGURES



WELL LEGEND	
Bottom Hole Locations:	
Location	Suspended
Service or Drain	Oil
Dry & Abandoned	Abandoned Oil
Injection	
Surface Hole Locations:	
Directional	Horizontal

Existing Sinclair Units

Sinclair Unit 1 Red
Unit 2 Blue and Unit 3 Green

Created in AccuMap™
Product of IHS
Datum: NAD27
Vol. 20 No. 04, Apr 13 2010
(403) 770-4646

Author:	WRJ
Date:	May 27, 2010
File:	Sinclair Units 1 2 3 and 5.MAP
Scale:	1 : 105995
Projection:	Stereographic
Center:	N49.61751 W101.30180

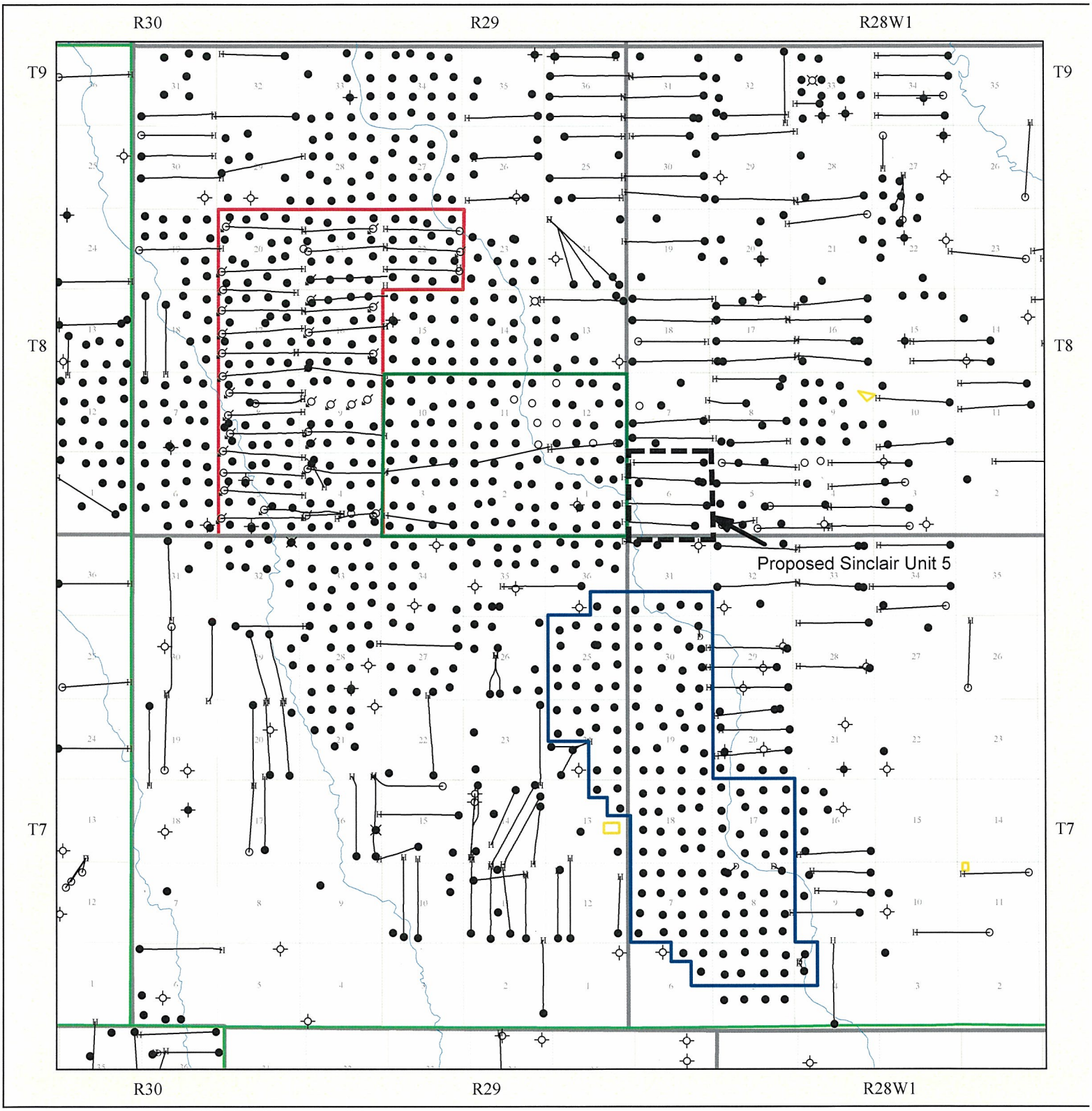
Grid Information:	DLS Version Information:
DLS: IHS Enhanced Grid	AB: ATS 2.6
NTS: Theoretical Grid	BC: PRB 2.0
FPS: Theoretical Grid	SK: STS 2.5
US: IHS US Grid	MB: MB 1.0

Scale 1:105995

0 Kilometers 4

0 Miles 2

Figure 1



WELL LEGEND

Bottom Hole Locations:

- Location
- Service or Drain
- Dry & Abandoned
- Injection
- Suspended
- Oil
- Abandoned Oil

Surface Hole Locations:

- Directional
- Horizontal

Tundra Oil and Gas

Sinclair Unit 5
Proposed

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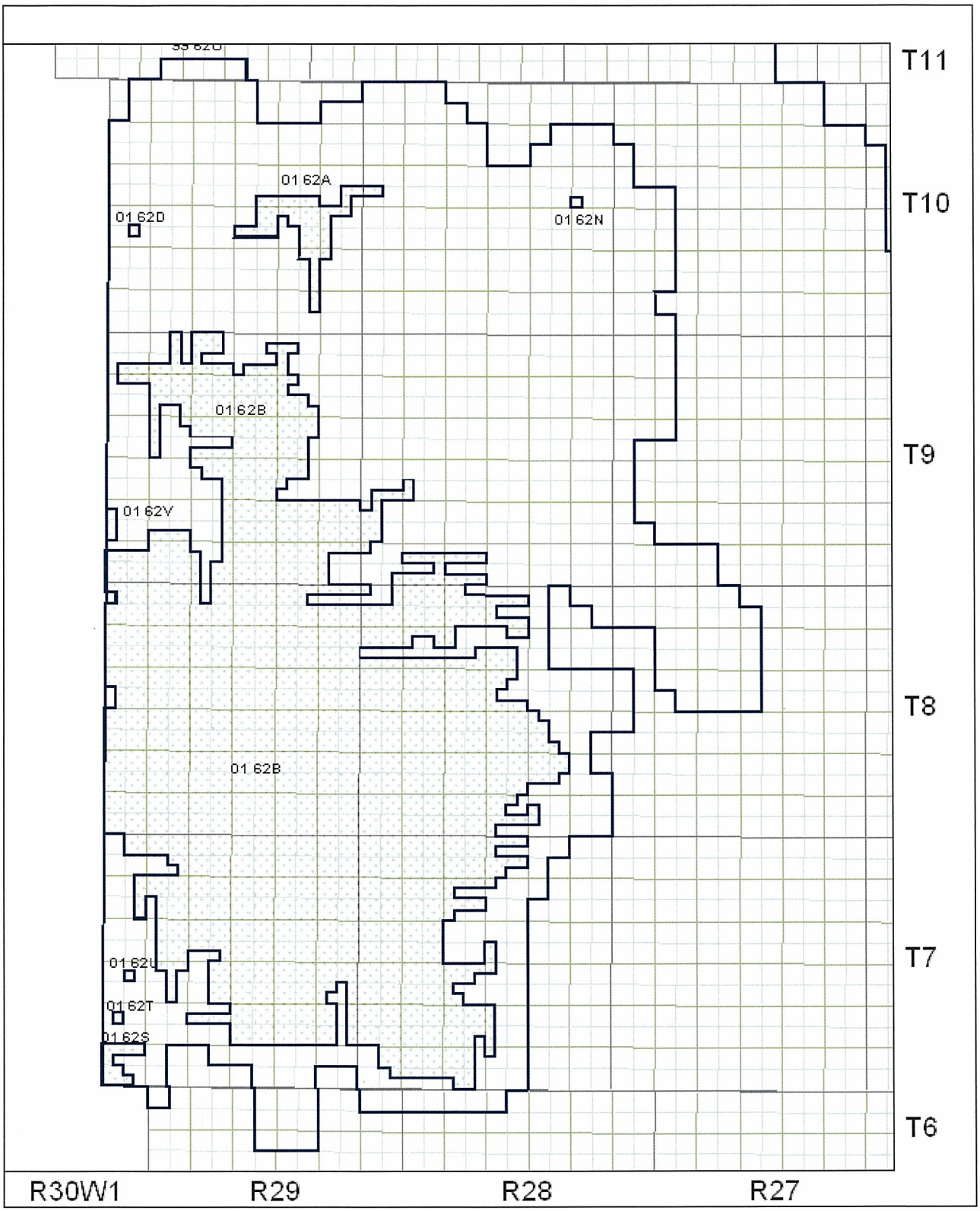
Figure 2



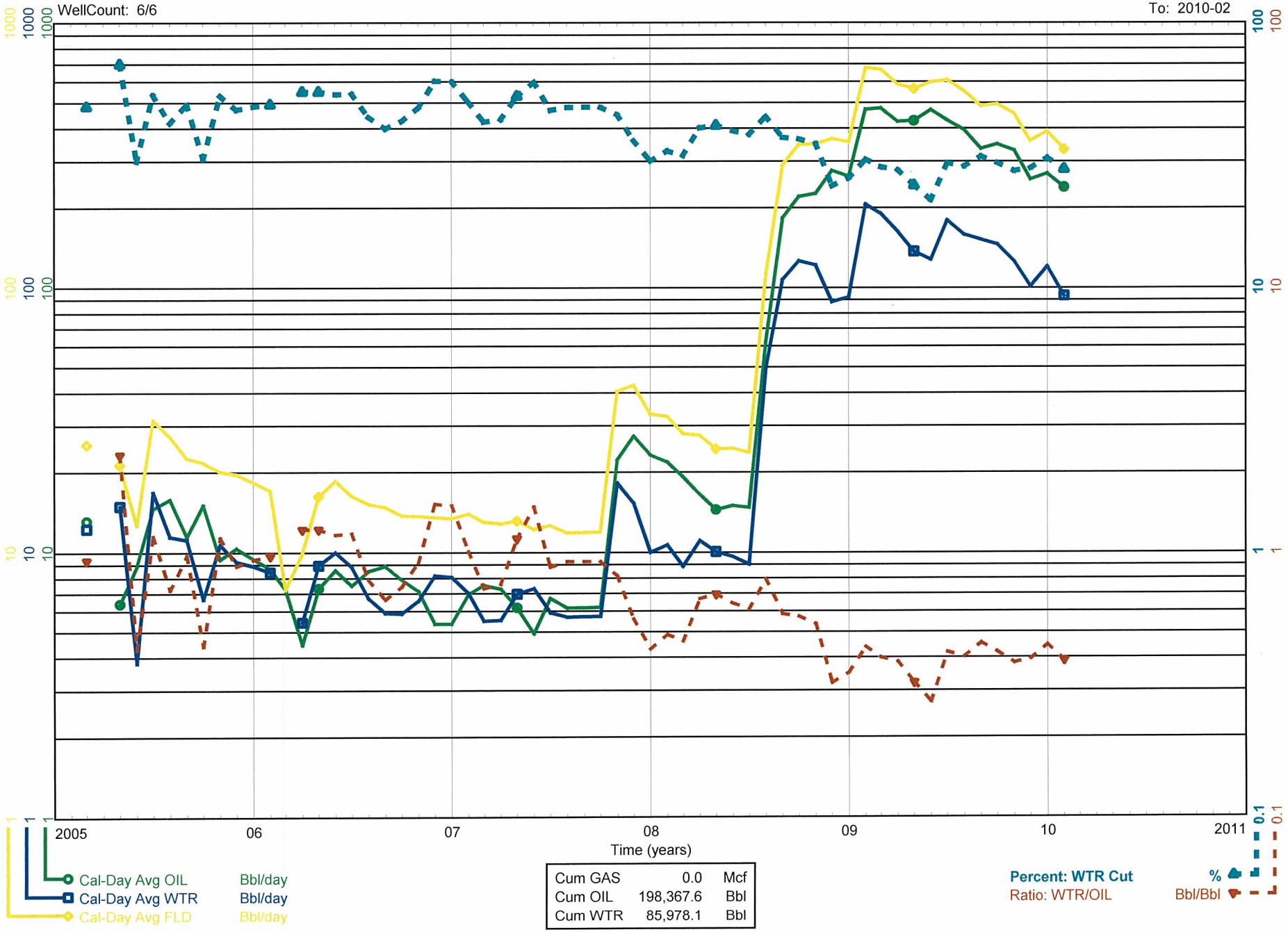
DALY SINCLAIR BAKKEN-THREE FORKS POOLS
(01 62A - 01 62V)

Figure 3

PROPOSED SINCLAIR UNIT #5
SECTION 6-008-28W1 PRODUCTION

Data As Of: 2010-02 (MB)
WellCount: 6/6

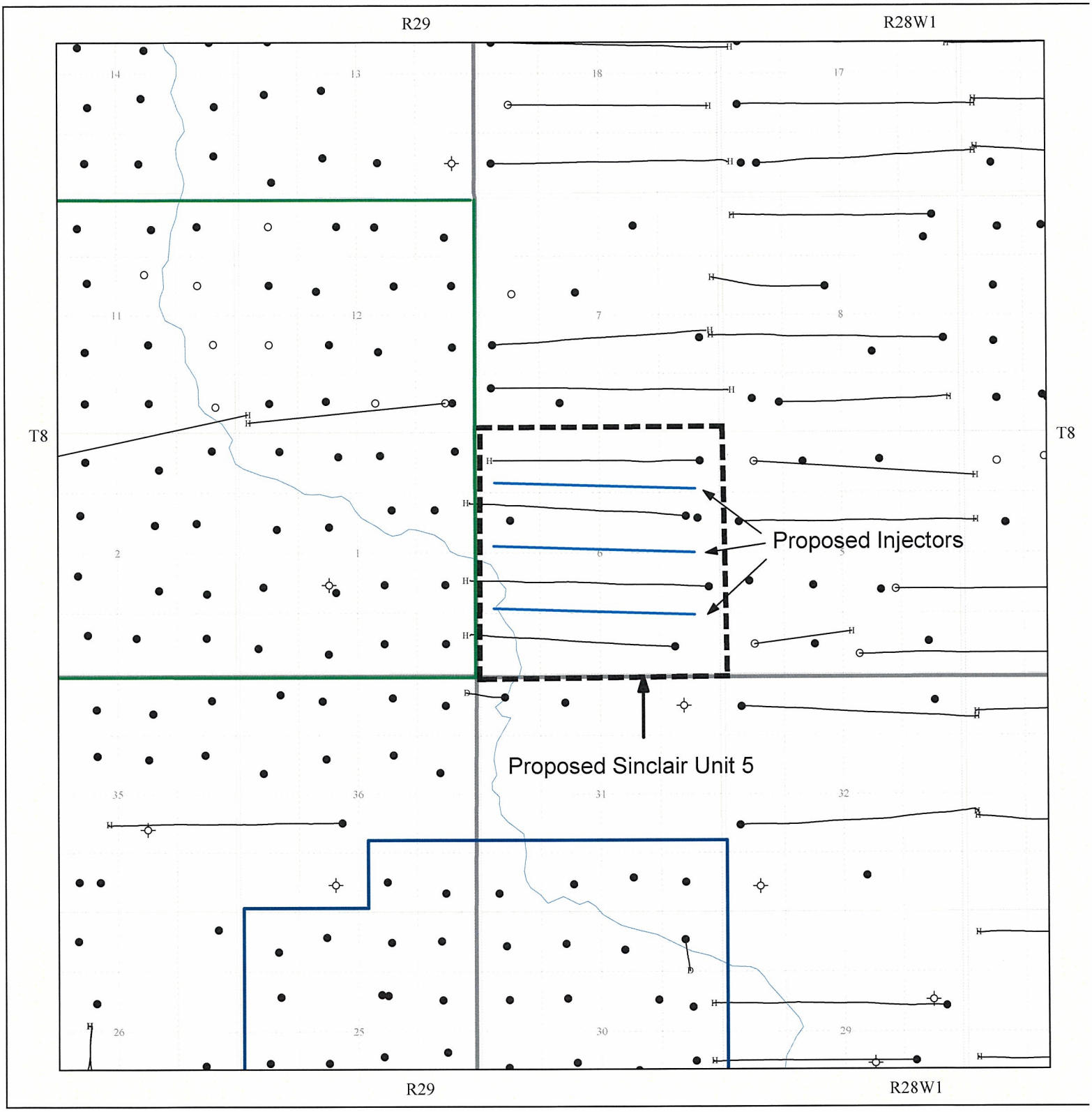
From: 2005-03
To: 2010-02



Cum GAS	0.0	Mcf
Cum OIL	198,367.6	Bbl
Cum WTR	85,978.1	Bbl

Figure 4

geoSCOUT



WELL LEGEND	
Bottom Hole Locations:	
Location	Oil
Dry & Abandoned	
Surface Hole Locations:	
Directional	Horizontal

Proposed Sinclair Unit 5

Existing Producers
Proposed Injectors

Created in AccuMap™
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Datum: NAD27
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Author:	WRJ
Date:	May 27, 2010
File:	Sinclair Unit 5 Proposed Injec
Scale:	1 : 36125
Projection:	Stereographic
Center:	N49.62837 W101.27367

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: MB 1.0

Scale 1:36125

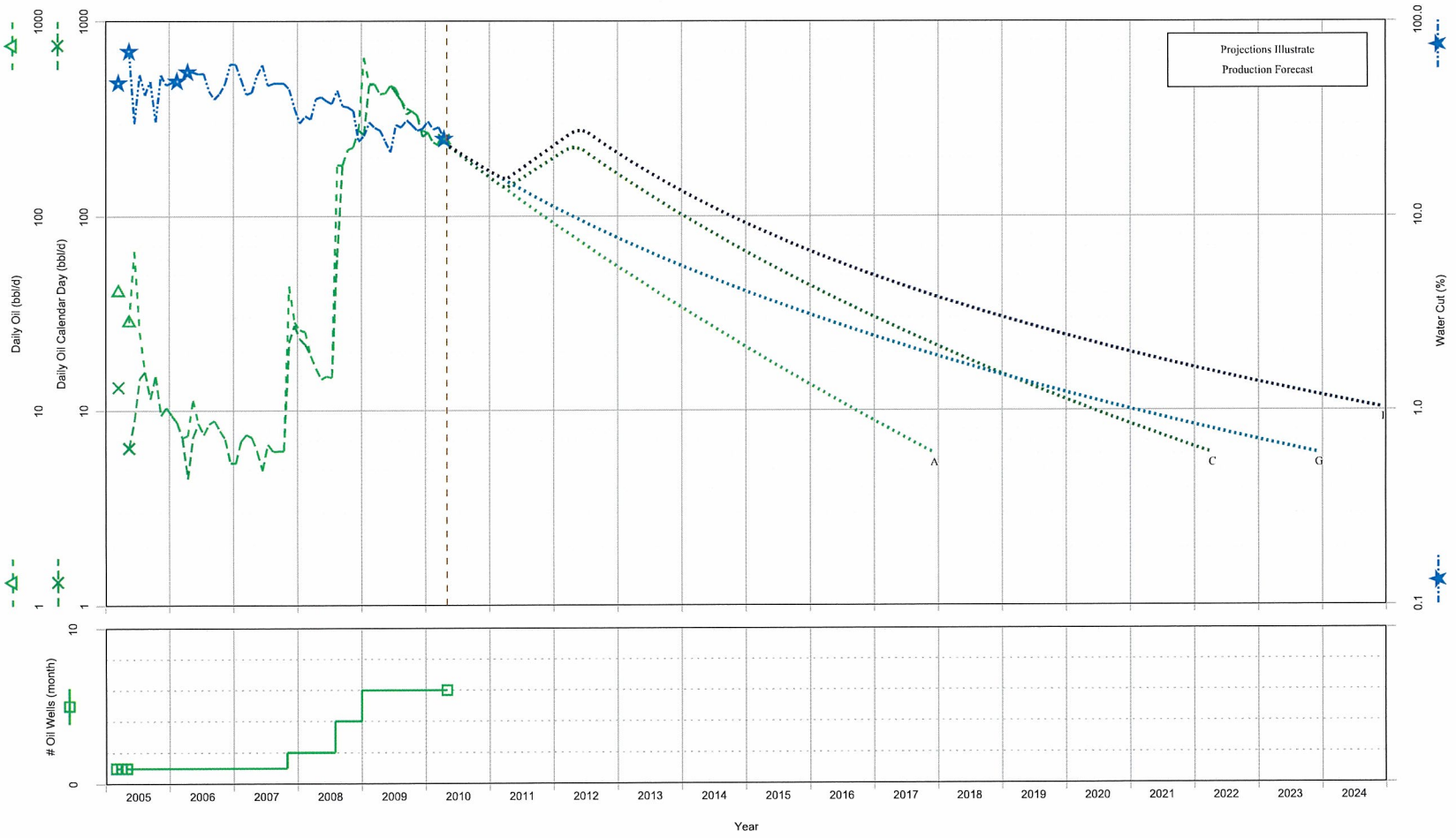
0 Kilometers 1.6

0 Miles 1

Figure 5

Historical and Forecast Production
Sinclair Unit No. 5 (Proposed) - Total Property

Property : Sinclair Unit No. 5 (Proposed)



Total Reserves Summary @ 2010/05/01

Reserves Classification		Reserves (Mbbl) Ultimate	Cum Production	Remaining
Pv Prd	A(R)	370	213	157
Total Pv	C(R)	533	213	320
P + P Prd	G(R)	443	213	230
Total P + P	I(R)	652	213	439

Average Production Rates (Last 12 months ending 2010/04/30)

Gas :	0.0 Mcf/d	0.0 Mcf/cd	WGR :	0.0 bbl/MMcf
Oil :	337.1 bbl/d	332.2 bbl/cd	GOR :	0.0 scf/stb
Avg Wells :	5.9		WC :	27.6 %

Cumulative Production

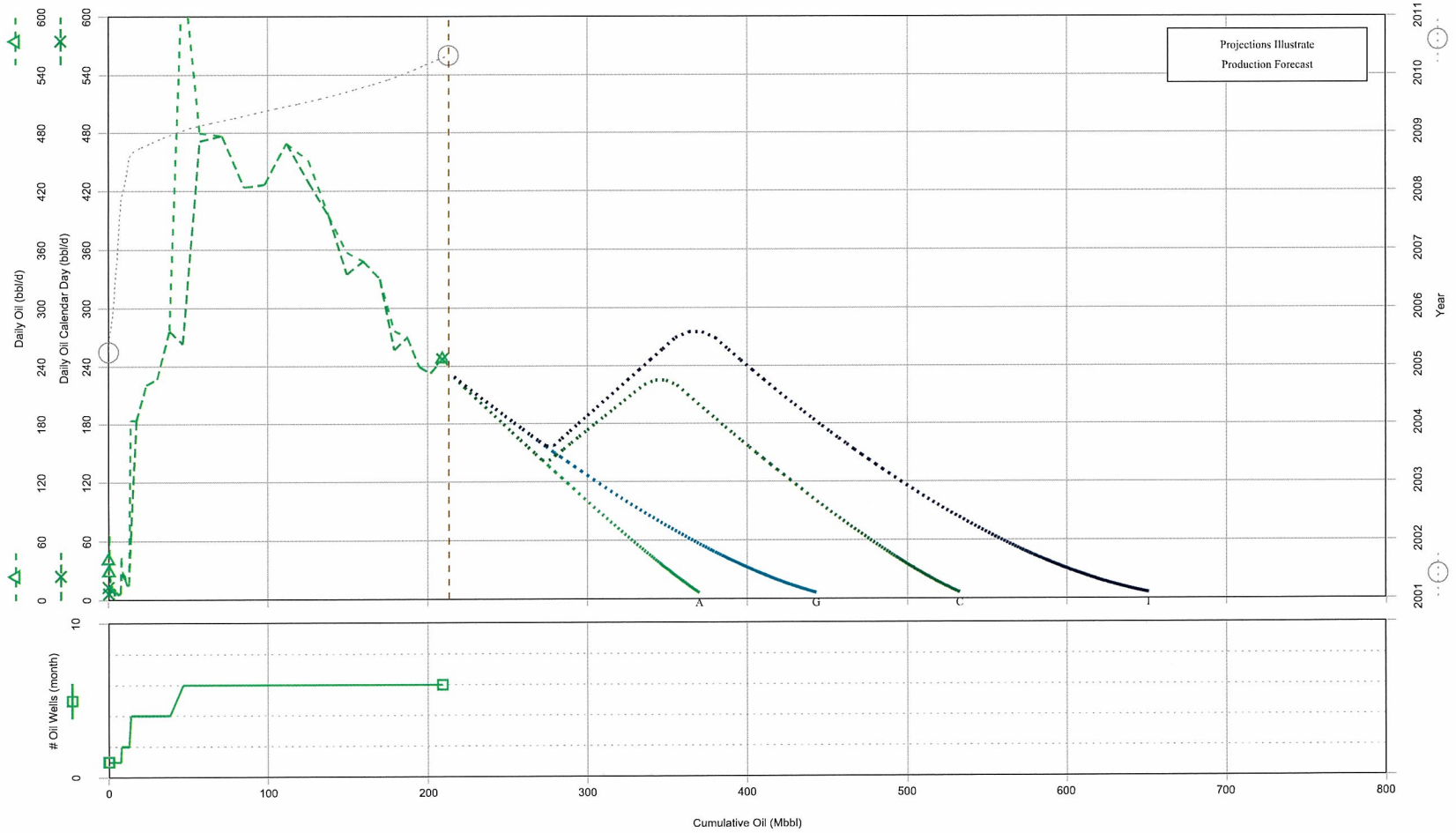
Oil :	213.0 Mbbl	Gas :	0.0 MMcf	Water :	91.4 Mbbl

Plot 1

Figure 6

Historical and Forecast Production
Sinclair Unit No. 5 (Proposed) - Total Property

Property : Sinclair Unit No. 5 (Proposed)



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Avg Wells :	5.9		WC :	27.6 %

Cumulative Production

Oil :	213.0 Mbbl	Gas :	0.0 MMcf	Water :	91.4 Mbbl

Plot 2

Figure 7

Sinclair Water Injection System

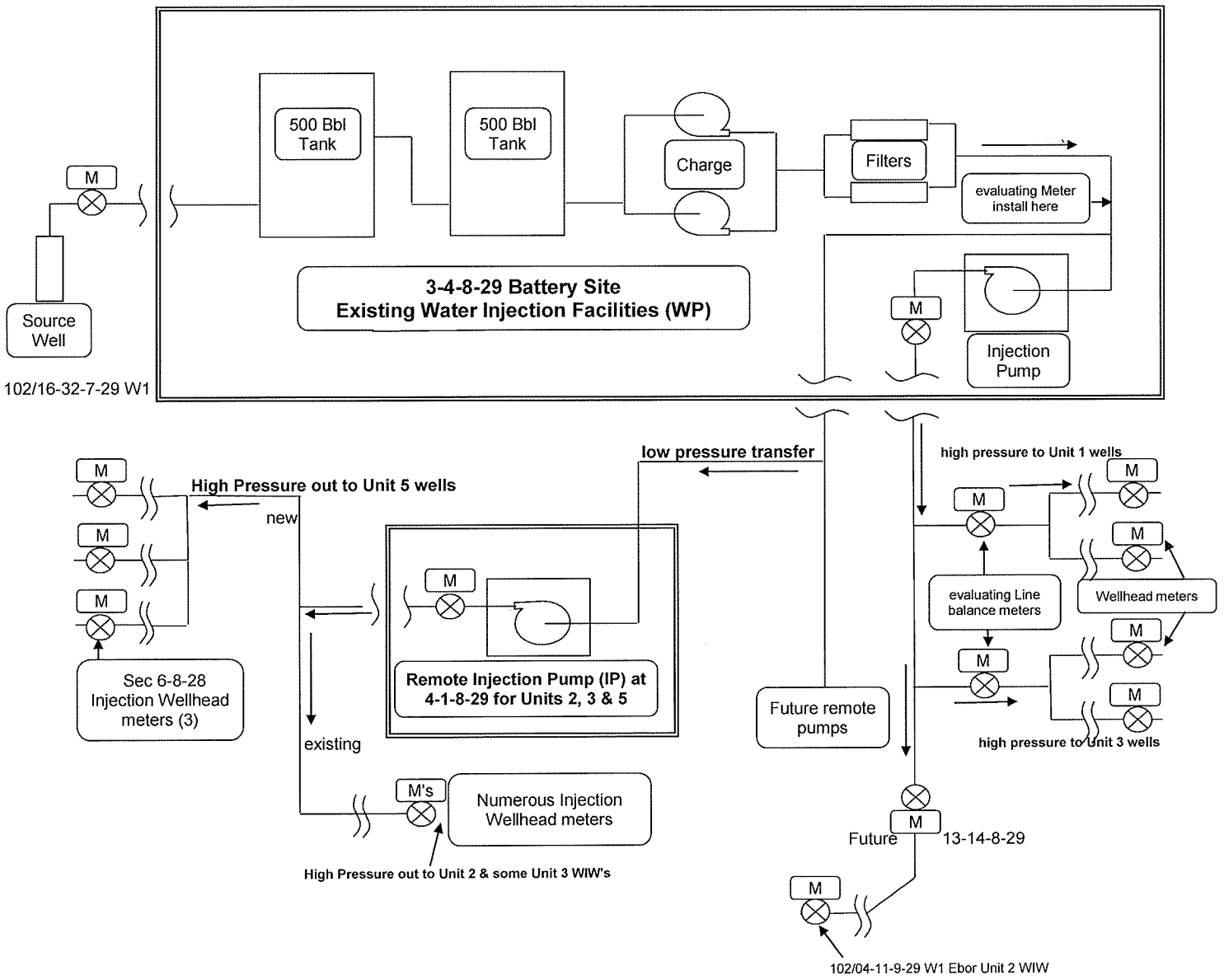
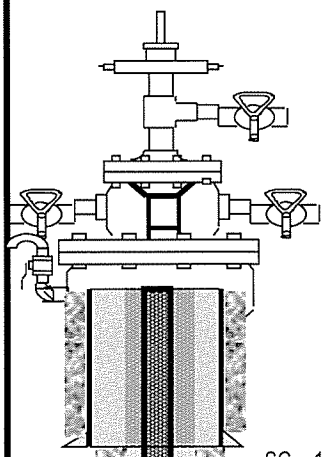


Figure 8

Tundra Oil And Gas Partnership

TYPICAL WATER INJECTION WELL DOWNHOLE DIAGRAM



SC = 140mKB

KOP = 783mMD

Tubing bottom @ 1092.22mKB

Packer set @ 1091.34mKB (COE)

Production Casing = 1102.0mKB

WELL NAME:	Tundra Sinclair Unit 5 HZNTL WIW				**WELL LICENCE:**	
Prepared by				Date:	31/5/2010	
Elevations :						
KB [m]		KB to THF [m]			TD [m]	2380.0
GL [m]		CF (m)			PBTD [m]	
Current Perfs:	Openhole			1102.0	to	2380.0
Current Perfs:					to	2133.0
KOP:	783m MD		Total Interval		to	
Tubulars	**Size [mm]**	**Wt - Kg/m**	**Grade**	**Landing Depth [mKB]**		
Surface Casing	244.5	48.07	H-40 - ST&C	Surface	to	140.0
Product. Casing	177.8	34.23	J-55 - LT&C	Surface	to	1102.0
Tubing	73.0 - TK-99	9.67	J-55	Surface	to	1092.2

Date of Tubing Installation: 5-Nov-08

Item	Description	K.B.--Tbg. Flg.	Length 0.00	Top @ m KB
	1 - Weatherford HRP coated packer		1.75	1.75
	113 - 73mm TK-99 coated tbg		1086.31	1088.06
	1 - 73mm TK-99 coated pup jt		0.53	1088.59
	1 - 73mm coated split dognut		0.21	1088.80
	stretch		0.34	1089.14
				1089.14
				1089.14
				1089.14
				1089.14
				1089.14
				1089.14
	Bottom of Tubing mKB			1092.22mKB

Rod String :

Date of Rod Installation:

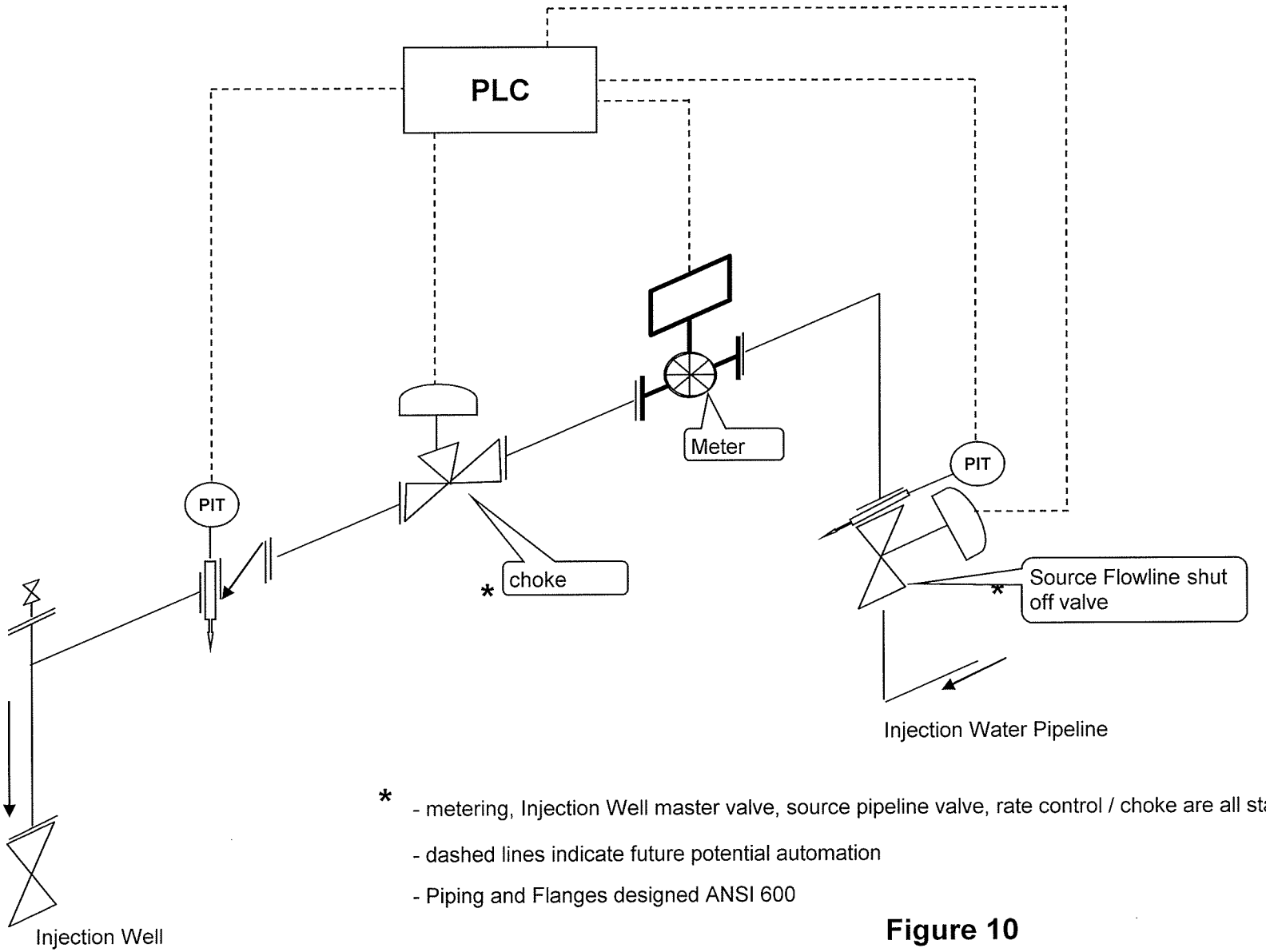
Bottomhole Pump:

Directions:

Figure 9

Sinclair Unit No. 5

Proposed Injection Well Surface Piping P&ID



* - metering, Injection Well master valve, source pipeline valve, rate control / choke are all standard

- dashed lines indicate future potential automation
- Piping and Flanges designed ANSI 600

Figure 10

Sinclair Unit No. 5

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
- 3-4 Water plant to New Injection Pump Station (IP) – Low pressure HDPE
- New IP Station to Unit 5 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 11

** subject to final design and engineering