PROPOSED SINCLAIR UNIT NO. 22

Application for Enhanced Oil Recovery Waterflood Project

Middle Bakken/Three Forks Formations

Bakken - Torquay Pool (01 62A)

Daly Sinclair Field, Manitoba

INTRODUCTION

The Sinclair portion of the Daly Sinclair Oil Field is located in Ranges 28 and 29 W1 in Townships 7 and 8 (Figure 1). Since discovery in 2004, the main oilfield area was developed with vertical and horizontal wells at 40 acre spacing on Primary Production. Since early 2009, a significant portion of the main oilfield has been unitized and placed on Secondary Waterflood (WF) Enhanced Oil Recovery (EOR) Production, mainly from the Lyleton A & B members of the Three Forks Formation. Tundra Oil and Gas (Tundra) currently operates and continues to develop Sinclair Units 1-3, 5-8, 10-14 and 18-21.

In the southern part of the Sinclair field, potential exists for incremental production and reserves from a Waterflood EOR project in the Three Forks and Middle Bakken oil reservoirs. The following represents an application by Tundra to establish Sinclair Unit No. 22 (LSDs 1-2, 7-10, 15-16 of Section 20-7-29W1, LSDs 3-6, 11-14 of Section 21-7-29W1, Section 29-7-29W1 and LSDs 1-8 of Section 32-7-29W1) and implement a Secondary Waterflood EOR scheme within the Three Forks and Middle Bakken formations as outlined on Figure 2.

The proposed project area falls within the existing designated 01-62A Bakken-Torquay Pool of the Daly Sinclair Oilfield (Figure 3).

SUMMARY

- 1. The proposed Sinclair Unit No. 22 will include 9 vertical and 8 horizontal wells within 40 Legal Sub Divisions (LSD) of the Middle Bakken/Three Forks producing reservoir. The project is located west of Sinclair Unit No. 8 and Sinclair Unit No. 18 (Figure 2).
- 2. Total Net Original Oil in Place (OOIP) in Sinclair Unit No. 22 has been calculated to be **3,313** e³m³ (20,835 Mbbl) for an average of **82.8** net e³m³ (520.9 Mbbl) OOIP per 40 acre LSD based on a 0.5 md cutoff.
- 3. Cumulative production to the end of April 2019 from the 17 wells within the proposed Sinclair Unit No. 22 project area was **60.3** e³m³ (379.2 Mbbl) of oil, and **196.9** e³m³ (1238.4 Mbbl) of water, representing a **1.8%** Recovery Factor (RF) of the Net OOIP.
- 4. Figure 4 shows the production from Sinclair Unit No. 22 peaked in April 2009 at 42.2 m³ of oil per day (OPD). As of April 2019, production was 7.32 m³ OPD, 26.8 m³ of water per day (WPD) and a 78.5% watercut. Decline analysis of the well primary production data forecasts total oil to continue to decline at an annual rate of approximately 21.3%.
- 5. Estimated Ultimate Recovery (EUR) of Primary Proved Producing oil reserves in the proposed Sinclair Unit No. 22 project area has been calculated to be **77.2** e³m³ (485.7.3 Mbbl), with **16.9** e³m³ (106.3 Mbbl) remaining as of the end of April 2019.
- 6. Ultimate oil recovery of the proposed Sinclair Unit No. 22 OOIP, under the current Primary Production method, is forecasted to be **2.3**%.
- 7. Estimated Ultimate Recovery (EUR) of proved oil reserves under Secondary WF EOR for the proposed Sinclair Unit No. 22 has been calculated to be **159.2** e³m³ (1001.6 Mbbl), with **98.8** e³m³ (622.0 Mbbl) remaining. An incremental **81.9** e³m³ (515.1 Mbbl) of proved oil reserves, or **2.5%**, are forecasted to be recovered under the proposed Unitization and Secondary EOR production vs the existing Primary Production method.
- 8. Total RF under Secondary WF in the proposed Sinclair Unit No. 22 is estimated to be 4.8%.
- 9. Based on the waterflood response in the adjacent main portion of the Sinclair field, the Three Forks and Middle Bakken Formations in the proposed project area are believed to be suitable reservoirs for WF EOR operations.
- 10. Existing horizontal wells, with multi-stage hydraulic fractures, will be converted to injection wells (Figure 5) within the proposed Sinclair Unit 22, to complete waterflood patterns with effective 20 acre spacing similar to Sinclair Unit No. 5.

DISCUSSION

The proposed Sinclair Unit No. 22 project area is located within Township 7, Range 29 W1 of the Daly Sinclair Oil Field. The proposed Sinclair Unit No. 22 currently consists of 9 vertical and 8 horizontal wells, within an area covering 40 LSDs in LSDs 1-2, 7-10, 15-16 of Section 20-7-29W1, LSDs 3-6, 11-14 of Section 21-7-29W1, Section 29-7-29W1 and LSDs 1-8 of Section 32-7-29W1 (Figure 2). A project area well list complete with recent production statistics is attached as Table 3.

Tundra believes that the waterflood response in the adjacent main portion of the Sinclair field demonstrates potential for incremental production and reserves from a WF EOR project in the subject Middle Bakken and/or Three Forks oil reservoirs.

Geology

Stratigraphy:

The stratigraphy of the reservoir section for the proposed unit is shown on the structural cross-section attached as Appendix 2. The section runs S to N through the proposed Unit area. The producing sequence in descending order consists of the Upper Bakken Shale, Middle Bakken Siltstone, Lyleton A Siltstone (broken into Upper and Lower members), the Red Shale Marker, Lyleton B Siltstone and the Torquay Silty Shale. The reservoir units are represented by the Middle Bakken, Upper Lyleton A and Lower Lyleton A. The Upper Bakken Shale is a black, organic rich, platy shale which forms the top seal for the underlying Middle Bakken and Lyleton reservoirs. The reservoir units in the proposed unit are analogous to the Bakken / Lyleton producing reservoirs that have been approved adjacent to the proposed unit (Sinclair Unit 8, Sinclair Unit 18, Sinclair Unit 9 and Sinclair Unit 16) as noted on the Offsetting Units Map at Appendix 1.

Sedimentology:

The Middle Bakken reservoir consists of fine to coarse grained grey siltstone to fine sandstone which may be subdivided on the basis of lithologic characteristics into upper and lower units. The upper portion is very often heavily bioturbated and is generally non-reservoir. These bioturbated beds often contain an impoverished fauna consisting of well-worn brachiopod, coral and occasional crinoid fragments suggesting deposition in a marginal marine environment. The lower part of the Middle Bakken is generally finely laminated with alternating light and dark laminations with occasional bioturbation. Reservoir quality is highly variable within the Unit area. Within the proposed unit, the Middle Bakken thickness ranges from less than 1m to 2.5m in the South West (Appendix 4).

The Lyleton A reservoir within the proposed unit area consists of buff to tan medium to coarse siltstone (occasionally fine sandstone) made up of quartz, feldspar and detrital dolomite with minor mica and clay mostly in the form of clay clasts or chips. Clays do not generally occur as pore filling material, but rather as discrete grains within the siltstone. The Upper part is generally well bedded and shows evidence of parallel lamination with occasional wind ripples. The coarser siltstones are interbedded with finer grained grey-green siltstone similar in composition to the reservoir siltstone, but generally with lower

permeability (i.e. < 0.1mD). These finer grained siltstones show evidence of haloturbation producing smeared siltstone clasts floating in a fine-grained grey-green siltstone matrix. The lower part of the Lyleton A generally shows a greater proportion of the grey-green fine-grained siltstone than the Upper and is generally a poorer reservoir. It also tends to exhibit greater amounts of haloturbation and pseudo-breccia of siltstone clasts in a finer grained siltstone matrix. Because of the fine-grained matrix in this pseudo-breccia the connectivity between the clasts is much lower than the bedded siltstone and the Lower part of the Lyleton A is generally a poorer reservoir than the Upper part of the Lyleton A. Within the proposed unit area the Upper Lyleton A ranges from over 6m in the North West to 2.5m in the South (Appendix 5). The Lower Lyleton A is fairly consistent in the proposed unit area ranging around 3.5m (Appendix 6).

The Red Shale Marker lies between the overlying Middle Bakken / Lyleton A and the underlying Lyleton B reservoir. It consists of brick red dolomitic siltstone which is highly water soluble and has low permeability.

The Lyleton B consists of buff to tan fine grained siltstone (occasionally very fine siltstone) made up of quartz, feldspar and detrital dolomite with minor mica and clay mostly in the form of clay clasts or chips. The Lyleton B is generally well bedded and shows evidence of parallel lamination with occasional wind ripples. The coarser siltstones are interbedded with dark grey-green or red very fine-grained siltstone which is generally non-reservoir.

The Torquay (Three Forks) forms the base of the reservoir sequence and is a brick red or mint green dolomitic very fine siltstone similar to the Red Shale Marker and it forms a good basal seal to the Lyleton B reservoir.

Structure:

The structure within the proposed unit area is relatively consistent with the regional trend, dipping toward the South West (Appendix 3).

Reservoir Continuity:

Lateral continuity of the reservoir units is an essential requirement of a successful waterflood. As demonstrated by the cross section and the isopach maps, all reservoir formations, the Middle Bakken, Upper Lyleton A and Lower Lyleton A are continuous throughout the proposed unit area.

Vertical continuity between the Middle Bakken and underlying Lyleton A reservoir exists throughout the proposed unit as they are in direct contact.

Gross OOIP Estimates

Total volumetric OOIP for the Middle Bakken Upper Lyleton A and Lower Lyleton A within the proposed unit has been calculated to be **3,313** e³m³ (**20,835** Mbbl) using Tundra internally created maps. Maps used were generated from core data from wells available in the greater Sinclair area (Appendix 7).

An average net to gross ratio was calculated for each reservoir formation using pressure decay profile permeameter data (PDPK) with a cut off of 0.5mD on surrounding cored wells. To determine net pay these ratios are then applied to each formation thickness from isopach maps based on logs. Porosity is calculated in the same way, using an average from surrounding core data after a 0.5mD cutoff.

Tabulated parameters for each LSD from the calculations can be found in Table 4.

OOIP values were calculated using the following volumetric equation:

$$OOIP = \frac{Area*Net\ Pay*Porosity*(1-Water\ Saturation)}{Initial\ Formation\ Volume\ Factor\ of\ Oil}$$

or

$$OOIP(m3) = \frac{A * h * \emptyset * (1 - Sw)}{Bo} * \frac{10,000m2}{ha}$$

or

$$OOIP(Mbbl) = \frac{A*h*\emptyset*(1-Sw)}{Bo}*3.28084 \\ \frac{ft}{m}*7,758.367 \\ \frac{bbl}{acre*ft}* \\ \frac{1Mbbl}{1,000bbl}$$

where

OOIP = Original Oil in Place by LSD (Mbbl, or m3) = Area (40acres, or 16.187 hectares, per LSD) h * Ø = Net Pay * Porosity, or Phi * h (ft, or m) = Formation Volume Factor of Oil (stb/rb, or sm3/rm3) Bo

= Water Saturation (decimal) Sw

The initial oil formation volume factor was adopted from PVT information taken from the 100/02-17-009-29W1 and 100/13-19-009-28W1 Bakken wells and is thought to be representative of the fluid characteristics in the reservoir.

Historical Production

A historical group production history plot for the proposed Sinclair Unit No. 22 is shown as Figure 4. Oil production commenced from the proposed Unit area in February 2007 and peaked during April 2009 at 42.2 m³ (OPD). As of April 2019, production was 7.32 m³ OPD, 26.8 m³ of water per day (WPD) and a 78.5% watercut.

From peak production in April 2009, oil production is declining at an annual rate of approximately 21.3% under the current Primary Production method.

The remainder of the field's production and decline rates indicate the need for pressure restoration and maintenance. Waterflooding is deemed to be the most efficient means of secondary recovery to introduce energy back into the system and provide areal sweep between wells.

UNITIZATION

Unitization and implementation of a Waterflood EOR project is forecasted to increase overall recovery of OOIP from the proposed project area.

Unit Name

Tundra proposes that the official name of the new Unit shall be Sinclair Unit No. 22.

Unit Operator

Tundra Oil and Gas (Tundra) will be the Operator of record for Sinclair Unit No. 22.

Unitized Zone

The Unitized zone(s) to be waterflooded in Sinclair Unit No. 22 will be the Middle Bakken and Three Forks formations.

Unit Wells

The 9 vertical and 8 horizontal wells to be included in the proposed Sinclair Unit No. 22 are outlined in Table 3.

Unit Lands

The Sinclair Unit No. 22 will consist of 40 LSDs as follows:

LSDs 1-2, 7-10, 15-16 of Section 20 of Township 7, Range 29, W1M LSDs 3-6, 11-14 of Section 21 of Township 7, Range 29, W1M Section 29 of Township 7, Range 29, W1M LSDs 1-8 of Section 32 of Township 7, Range 29, W1M

The lands included in the 40 acre tracts are outlined in Table 1.

Tract Factors

The proposed Sinclair Unit No. 22 will consist of 40 Tracts based on the 40 acre LSDs containing the existing 9 vertical and 8 horizontal wells.

The Tract Factor contribution for each of the LSD's within the proposed Sinclair Unit No. 22 was calculated as follows:

- Gross OOIP by LSD, minus cumulative production to date for the LSD as distributed by the LSD specific Production Allocation (PA) % in the applicable producing horizontal or vertical well (to yield Remaining Gross OOIP)
- Tract Factor by LSD = the product of Remaining Gross OOIP by LSD as a % of total proposed Unit Remaining Gross OOIP

Tract Factor calculations for all individual LSDs based on the above methodology are outlined within Table 2.

Working Interest Owners

Table 1 outlines the working interest (WI) for each recommended Tract within the proposed Sinclair Unit No. 22. Tundra Oil and Gas Partnership holds a 100% WI ownership in all the proposed Tracts.

Tundra Oil and Gas Partnership will have a 100% WI in the proposed Sinclair Unit No. 22.

WATERFLOOD EOR DEVELOPMENT

Technical Studies

The waterflood performance predictions for the proposed Sinclair Unit No. 22 Bakken project are based on internal engineering assessments. Project area specific reservoir and geological parameters were utilized and then compared to Sinclair Unit No. 5 parameters, yielding the WF EOR response observed there to date.

Reserves Recovery Profiles and Production Forecasts

The primary waterflood performance predictions for the proposed Sinclair Unit No. 22 are based on oil production decline curve analysis, and the secondary predictions are based on internal engineering analysis performed by the Tundra reservoir engineering group using Sinclair Unit No. 5 as an analogy because it is developed with a similar waterflood pattern design of a horizontal injector with offsetting horizontal producers at 20 acre spacing.

Primary Production Forecast

Cumulative production in the Sinclair Unit No. 22 project area, to the end of April 2019 from 17 wells, is **60.3** e³m³ of oil and **196.9** e³m³ of water for a recovery factor of **1.8%** of the calculated Net OOIP.

Ultimate Primary Proved Producing oil reserves recovery for Sinclair Unit No. 22 has been estimated to be **77.2** e³m³, or an **2.3**% Recovery Factor (RF) of OOIP. Remaining Producing Primary Reserves has been estimated to be **16.9** e³m³ to end of April 2019.

The expected production decline and forecasted cumulative oil recovery under continued Primary Production is shown in Figures 7 and 8.

Pre-Production Schedule/Timing for Conversion of Horizontal Wells to Water Injection

Tundra will plan an injection conversion schedule to allow for the most expeditious development of the waterflood within the proposed Sinclair Unit No. 22, while maximizing reservoir knowledge.

Criteria for Conversion to Water Injection Well

Nine (9) water injection wells are required for this proposed unit as shown in Figure 5.

Tundra will monitor the following parameters to assess the best timing for the horizontal well to be converted from primary production to water injection service.

- Measured reservoir pressures at start of and/or through primary production
- Fluid production rates and any changes in decline rate
- Any observed production interference effects with adjacent vertical and horizontal wells
- Pattern mass balance and/or oil recovery factor estimates
- Reservoir pressure relative to bubble point pressure

The above allows for the proposed Sinclair Unit No. 22 project to be developed equitably and efficiently. It also provides the Unit Operator flexibility to manage the reservoir conditions and response to help ensure maximum ultimate recovery of OOIP.

Secondary EOR Production Forecast

The proposed project oil production profile under Secondary Waterflood has been developed based on the response observed to date in the Sinclair Unit No. 5 Waterflood (Figure 6).

Secondary Waterflood plots of the expected oil production forecast over time and the expected oil production vs. cumulative oil are plotted in Figures 9 and 10, respectively. Total Secondary EUR for the proposed Sinclair Unit No. 22 is estimated to be 159.2 e³m³ with 98.8 e³m³ remaining, representing a total secondary recovery factor of 4.8% for the proposed Unit area. An incremental 81.9 e³m³ of oil, or a 2.5% recovery factor, are forecasted to be recovered under the proposed Unitization and Secondary EOR production scheme vs. the existing Primary Production method.

Estimated Fracture Pressure

Completion data from the existing producing wells within the project area indicate an actual fracture pressure gradient range of 18.0 to 22.0 kPa/m true vertical depth (TVD).

WATERFLOOD OPERATING STRATEGY

Water Source

The injection water for the proposed Sinclair Unit No. 22 will be supplied from the existing Sinclair 3-4-8-29W1 Battery source and injection water system. All existing injection water is obtained from the Mannville formation in the 103/12-04-8-29W1 (103/12-04) licensed water source well. Mannville water from the 103/12-04 source well is pumped to the main Sinclair Units Water Plant at 3-4-8-29W1, filtered, and pumped up to injection system pressure. A diagram of the Sinclair water injection system and new pipeline connection to the proposed Sinclair Unit No. 22 project area injection wells is shown as Figure 11.

Produced water is not currently used for any water injection in the Tundra operated Sinclair Units due to technical and economic factors that limit Tundra's ability to filter down to the necessary particle size for this tight formation. Therefore, there are no current plans to use produced water as a source supply for Sinclair Unit No. 22.

Since all producing Middle Bakken/Three Forks wells in the Daly Sinclair areas, whether vertical or horizontal, have been hydraulically fractured, produced waters from these wells are inherently a mixture of Three Forks and Bakken native sources. This mixture of produced waters has been extensively tested for compatibility with 103/12-04 source Mannville water, by a highly qualified third party, prior to implementation by Tundra. All potential mixture ratios between the two waters, under a range of temperatures, have been simulated and evaluated for scaling and precipitate producing tendencies. Testing of multiple scale inhibitors has also been conducted and minimum inhibition

concentration requirements for the source water volume determined. At present, continuous scale inhibitor application is maintained into the source water stream out of the Sinclair injection water facility. Review and monitoring of the source water scale inhibition system is also part of an existing routine maintenance program.

Injection Wells

The water injection wells for the proposed Sinclair Unit No. 22 will be current producing wells configured downhole for injection as shown in Figure 12. The horizontal injection well will have been stimulated by multiple hydraulic fracture treatments to obtain suitable injection. Tundra has extensive experience with horizontal fracturing in the area, and all jobs are rigorously programmed and monitored during execution. This helps ensure optimum placement of each fracture stage to prevent, or minimize, the potential for out-of-zone fracture growth and thereby limit the potential for future out-of-zone injection.

Wellhead injection pressures will be maintained below the least value of either:

- the area specific known and calculated fracture gradient, or
- the licensed surface injection Maximum Allowable Pressure (MOP)

Tundra has a thorough understanding of area fracture gradients. A management program will be utilized to set and routinely review injection target rates and pressures vs. surface MOP and the known area formation fracture pressures.

All new water injection wells are surface equipped with injection volume metering and rate/pressure control. An operating procedure for monitoring water injection volumes and meter balancing will also be utilized to monitor the entire system measurement and integrity on a daily basis.

The proposed Sinclair Unit No. 22 horizontal water injection well rate is forecasted to average **10 - 30** m³ WPD, based on expected reservoir permeability and pressure.

Reservoir Pressure

No recent or representative initial pressure surveys are currently available for the producing wells within the proposed Sinclair Unit No. 22 project area in the Bakken formation. The long shut-in and build-up times required to obtain any possible representative surveys from the producing wells are economically prohibitive. Tundra will make all attempts to capture a reservoir pressure survey in the proposed horizontal injection wells during the completion of the wells and prior to injection or production.

Reservoir Pressure Management during Waterflood

Tundra expects it will take 2-4 years to re-pressurize the reservoir due to cumulative primary production voidage and pressure depletion. Initial monthly Voidage Replacement Ratio (VRR) is expected to be approximately 1.25 to 2.00 within the patterns during the fill up period. As the cumulative VRR approaches 1, target reservoir operating pressure for waterflood operations will be 75-90% of original reservoir pressure.

Waterflood Surveillance and Optimization

Sinclair Unit No. 22 EOR response and waterflood surveillance will consist of the following:

- Regular production well rate and WCT testing
- Daily water injection rate and pressure monitoring vs target
- Water injection rate/pressure/time vs. cumulative injection plot
- Reservoir pressure surveys as required to establish pressure trends
- Pattern VRR
- Potential use of chemical tracers to track water injector/producer responses
- Use of some or all of: Water Oil Ratio (WOR) trends, Log WOR vs Cum Oil, Hydrocarbon Pore Volumes Injected, Conformance Plots

The above surveillance methods will provide an ever-increasing understanding of reservoir performance, and provide data to continually control and optimize the Sinclair Unit No. 22 waterflood operation. Controlling the waterflood operation will significantly reduce or eliminate the potential for out-of-zone injection, undesired channeling or water breakthrough, or out-of-Unit migration. The monitoring and surveillance will also provide early indicators of any such issues so that waterflood operations may be altered to maximize ultimate secondary reserves recovery from the proposed Sinclair Unit No. 22.

On Going Reservoir Pressure Surveys

Any pressures taken during the operation of the proposed unit will be reported within the Annual Progress Reports for Sinclair Unit No. 22 as per Section 73 of the Drilling and Production Regulation.

Economic Limits

Under the current Primary recovery method, existing wells within the proposed Sinclair Unit No. 22 will be deemed uneconomic when the net oil rate and net oil price revenue stream becomes less than the current producing operating costs. With any positive oil production response under the proposed Secondary recovery method, the economic limit will be significantly pushed out into the future. The actual economic cut off point will then again be a function of net oil price, the magnitude and duration of production rate response to the waterflood, and then current operating costs. Waterflood projects generally become uneconomic to operate when Water Oil Ratios (WOR's) exceed 100.

WATER INJECTION FACILITIES

The Sinclair Unit No. 22 waterflood operation will utilize the existing Tundra operated source well supply and water plant (WP) facilities located at 3-4-8-29W1 Battery. Injection wells will be connected to the existing high pressure water pipeline system supplying other Tundra-operated Waterflood Units.

A complete description of all planned system design and operational practices to prevent corrosion related failures is shown in Figure 13.

NOTIFICATION OF MINERAL AND SURFACE RIGHTS OWNERS

Tundra is in the process of notifying all mineral rights and surface rights owners of this proposed EOR project and formation of Sinclair Unit No. 22. Copies of the notices and proof of service, to all surface and mineral rights owners will be forwarded to the Petroleum Branch when available to complete the Sinclair Unit No. 22 Application.

Sinclair Unit No. 22 Unitization, and execution of the formal Sinclair Unit No. 22 Agreement by affected Mineral Owners, is expected during Q3 2019. Copies of same will be forwarded to the Petroleum Branch, when available, to complete the Sinclair Unit No. 22 Application.

Should the Petroleum Branch have further questions or require more information, please contact Eric Fraser at 587.747.5363 or by email at eric.fraser@tundraoilandgas.com.

TUNDRA OIL & GAS PARTNERSHIP

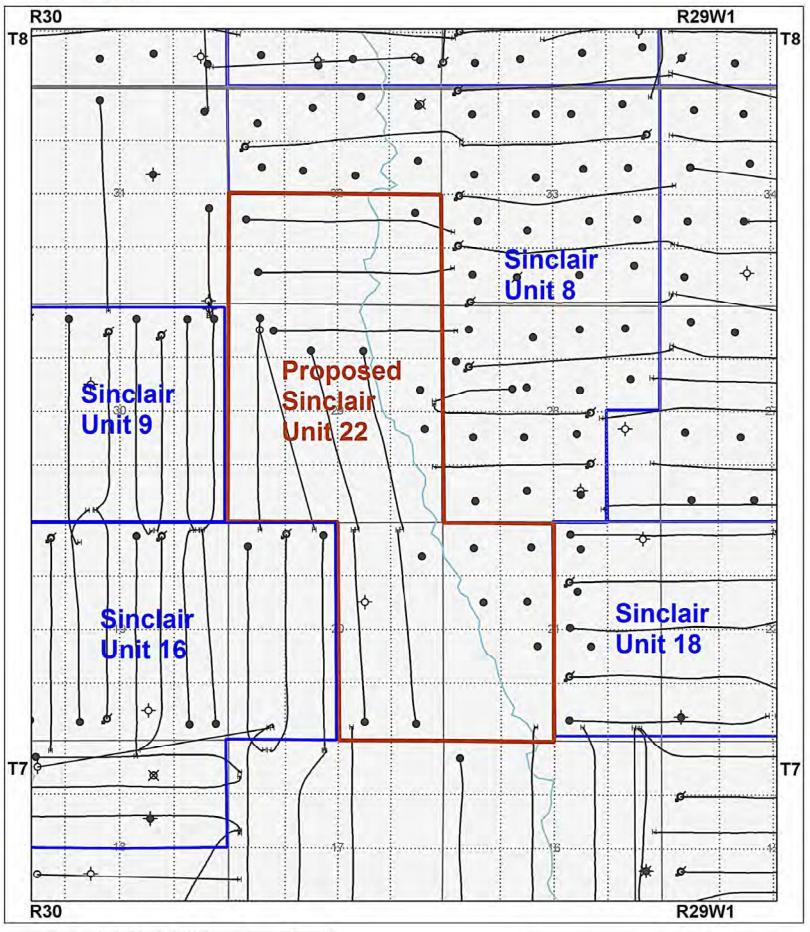
Original Signed by Eric Fraser, July 19, 2019 in Calgary, AB

Proposed Sinclair Unit No. 22

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Proposed Sinclair Unit 22 Offsetting Bakken Units 00/06-21-007-29W1/0

KB: 517.1 m

RR: 2007-03-16

FormTD: BIRDBER

Fluid: Oil

TUNDRA SINCLAIR 6-21-7-29(WPM)

3.6m to next well > < 1843.6m to p

TD: 1037.0 m [TVD]

Mode: Prod Fluid: Oil

TUNDRA SINCLAIR PROV. 8-29-7-29 (WPM)

o next well > < 1629.7m to previous v

00/08-32-007-29W1/0

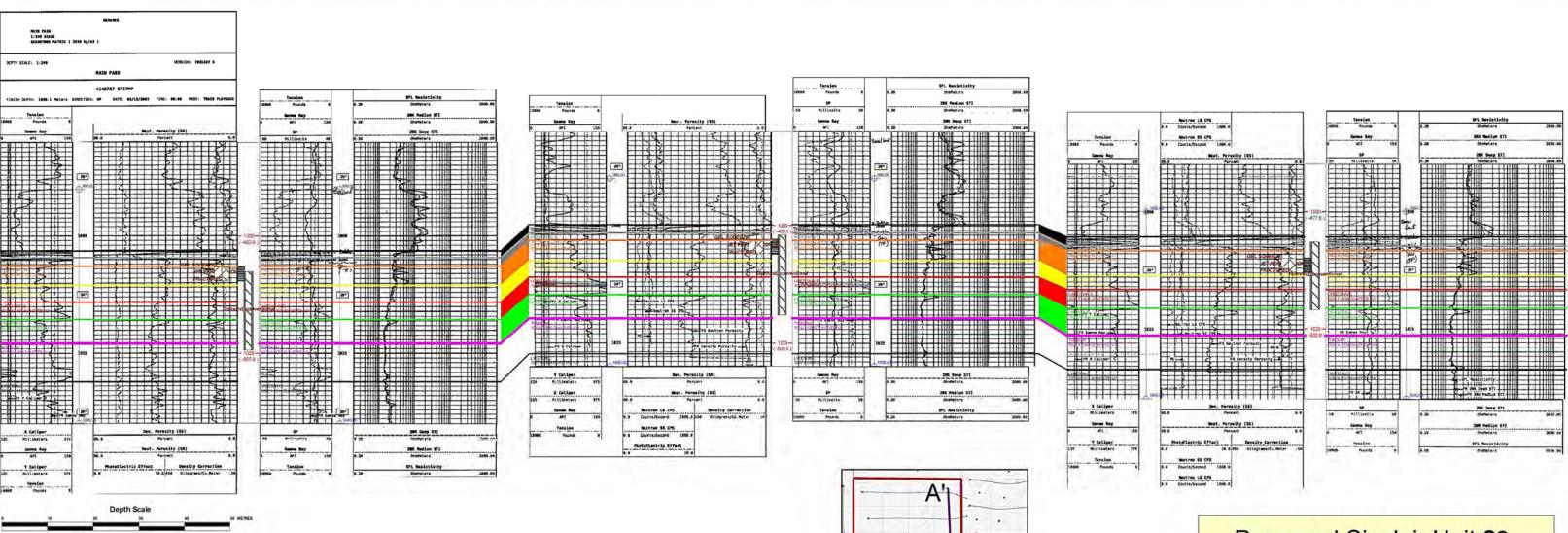
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RR: 2008-06-02

FormTD: TORQUAY

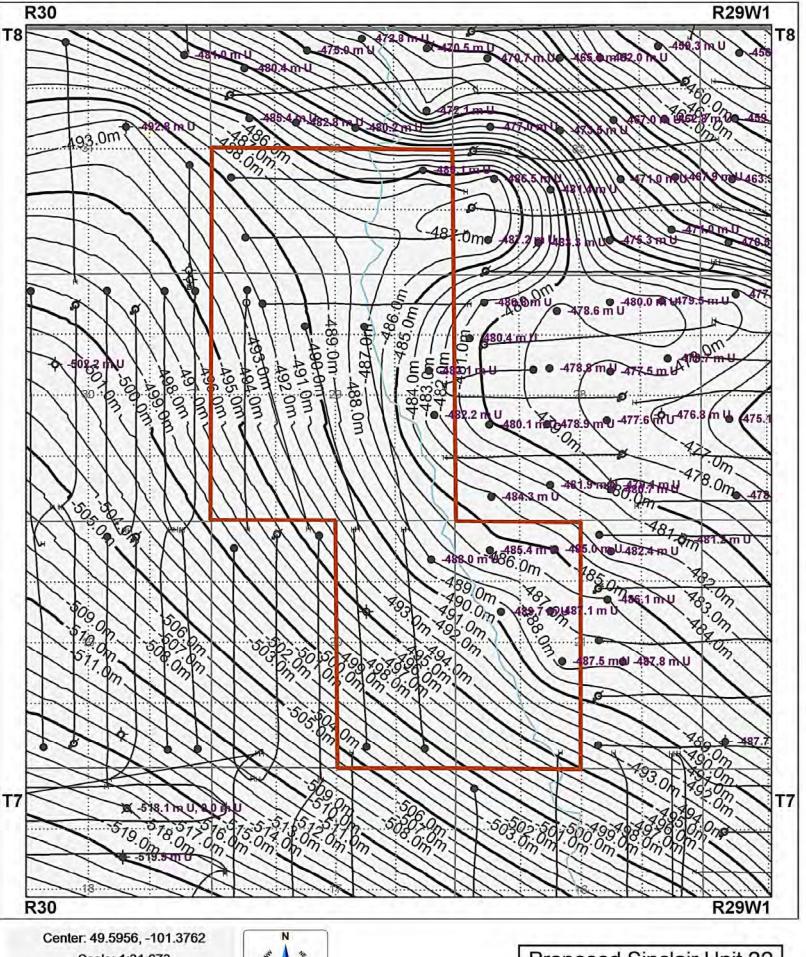
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TUNDRA SINCLAIR PROV.8-32-7-29 (WPM)



Proposed Sinclair Unit 22

Structural Cross Section
-South to NorthThrough Proposed Unit Area



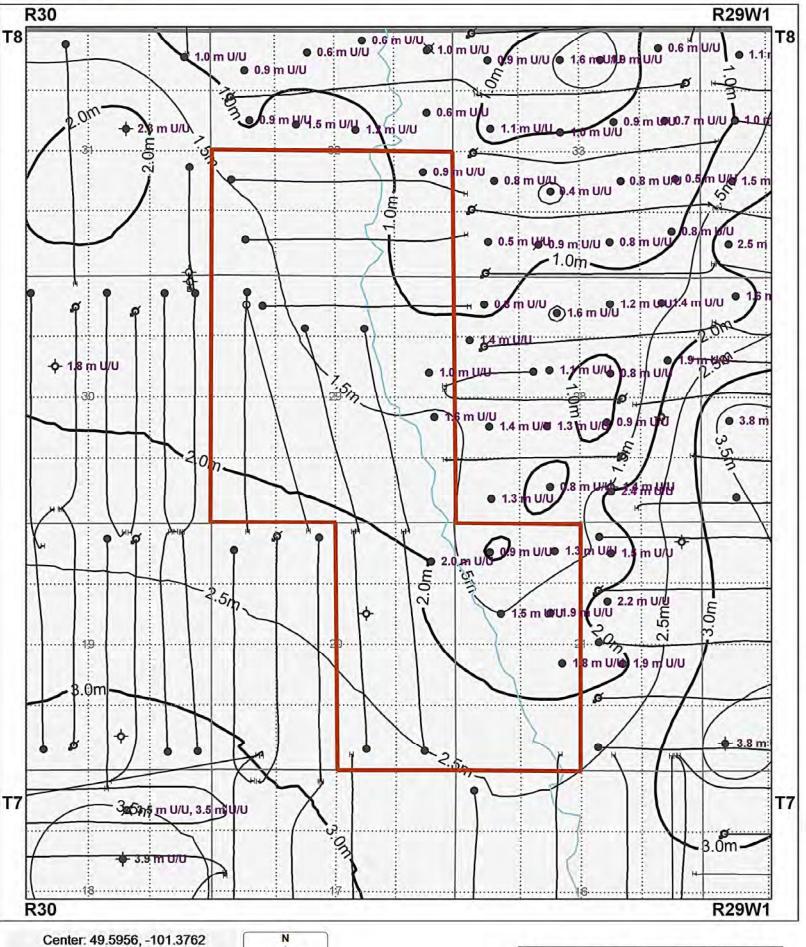
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0 0.5 1 km

0 0.1 0.8 mi



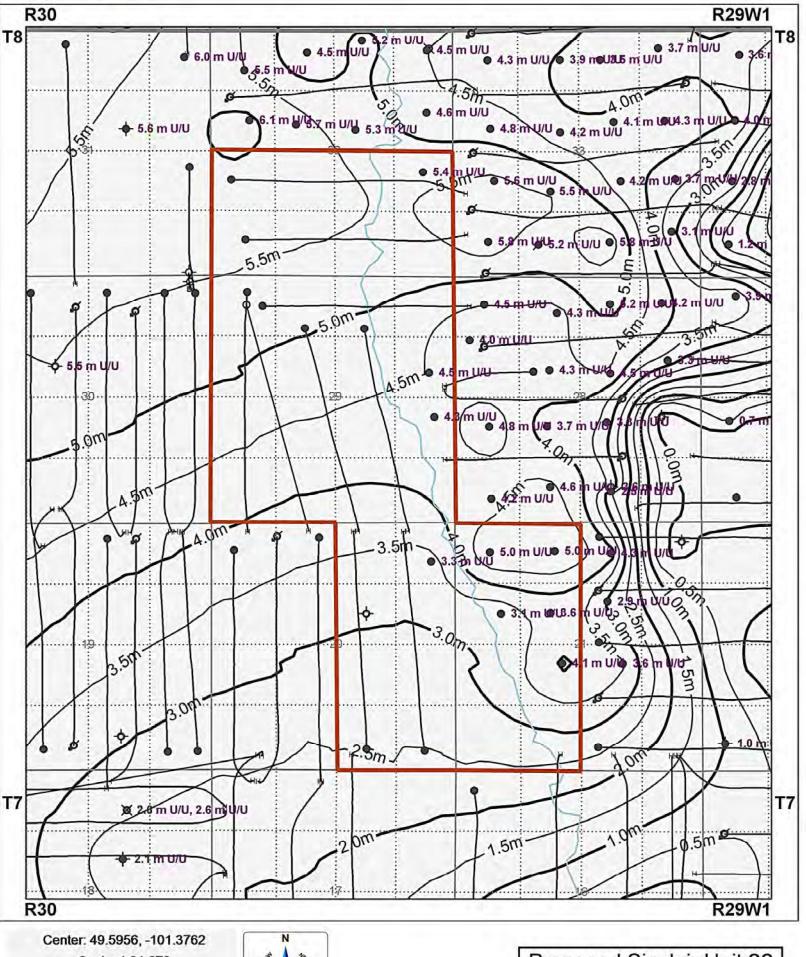
Proposed Sinclair Unit 22 Middle Bakken Structure (mSS)



Scale: 1:31,673
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0 0.1 0.8 mi



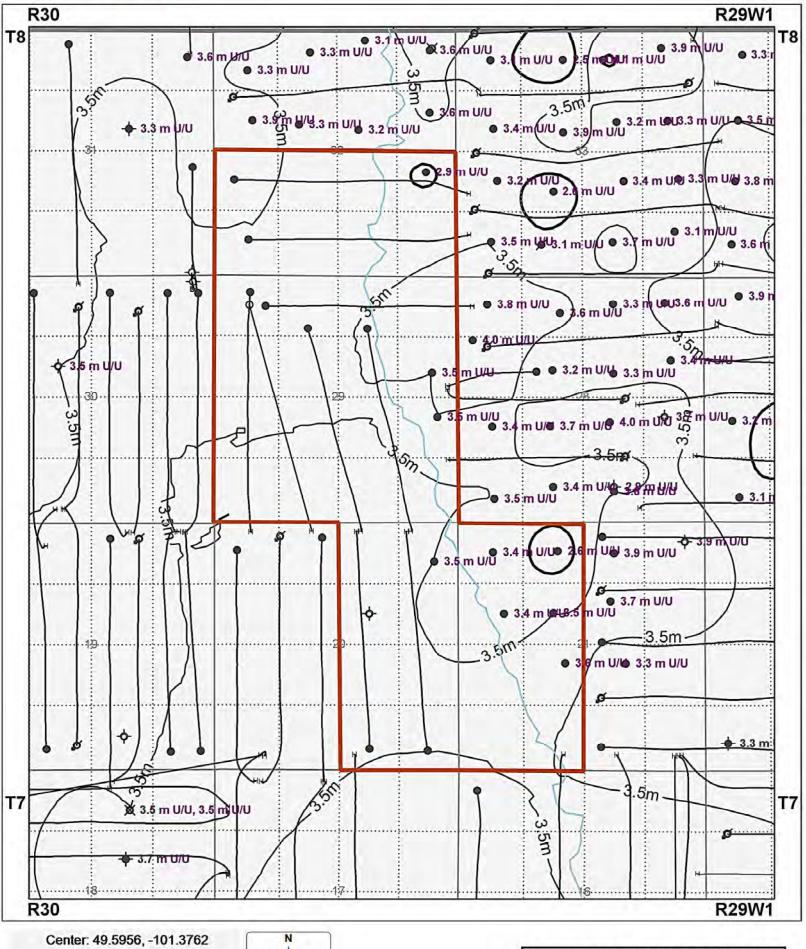
Proposed Sinclair Unit 22 Middle Bakken Isopach (m)



Center: 49.5956, -101.3762
Scale: 1:31,673
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0 0.1 0.8 mi



Proposed Sinclair Unit 22 Upper Lyleton A Isopach (m)



Center: 49.5956, -101.3762
Scale: 1:31,673
0 0.5 1 km
0 0.1 0.8 mi



Proposed Sinclair Unit 22 Lower Lyleton A Isopach (m)





Proposed Sinclair Unit 22 Core Data Points

Proposed Sinclair Unit No. 22

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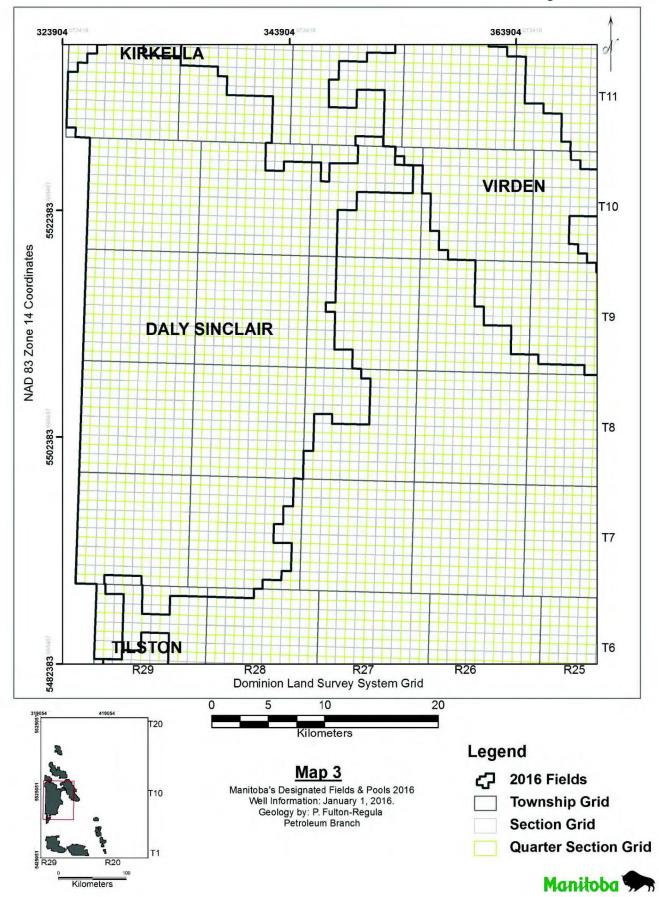
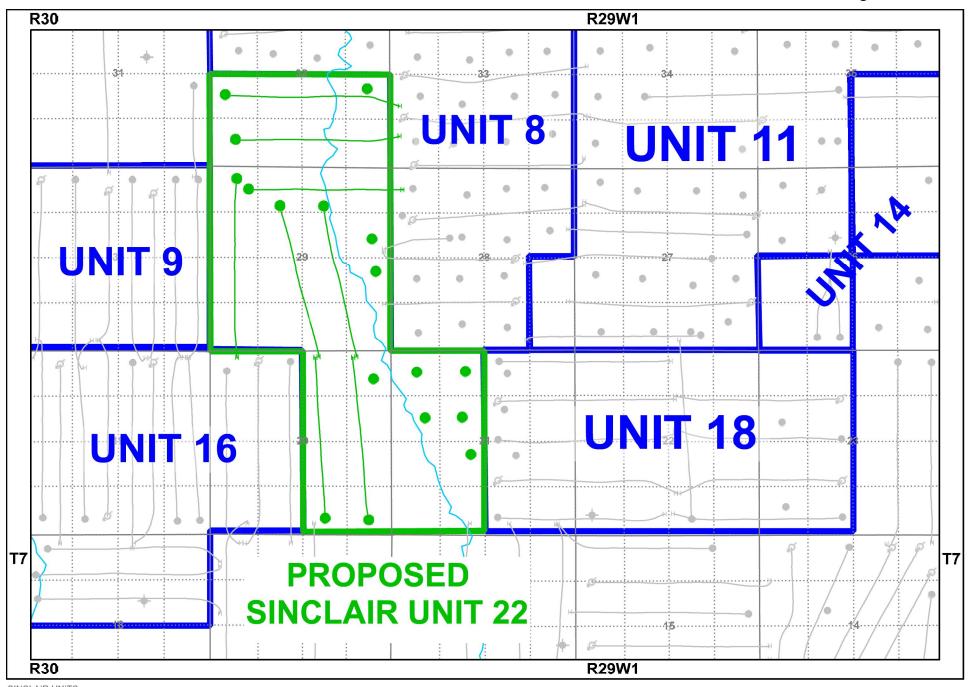


Figure No. 2

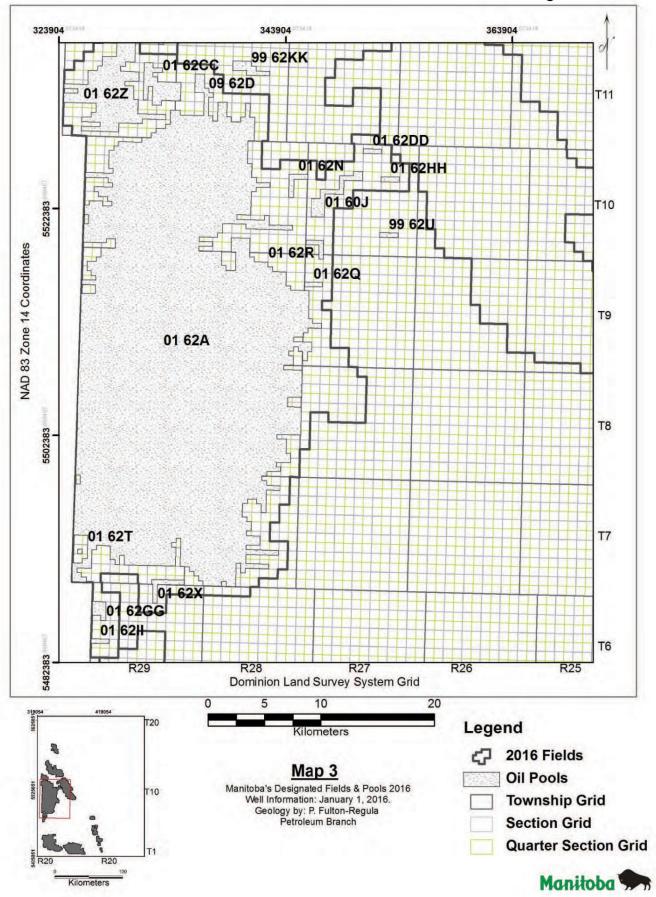


SINCLAIR UNITS

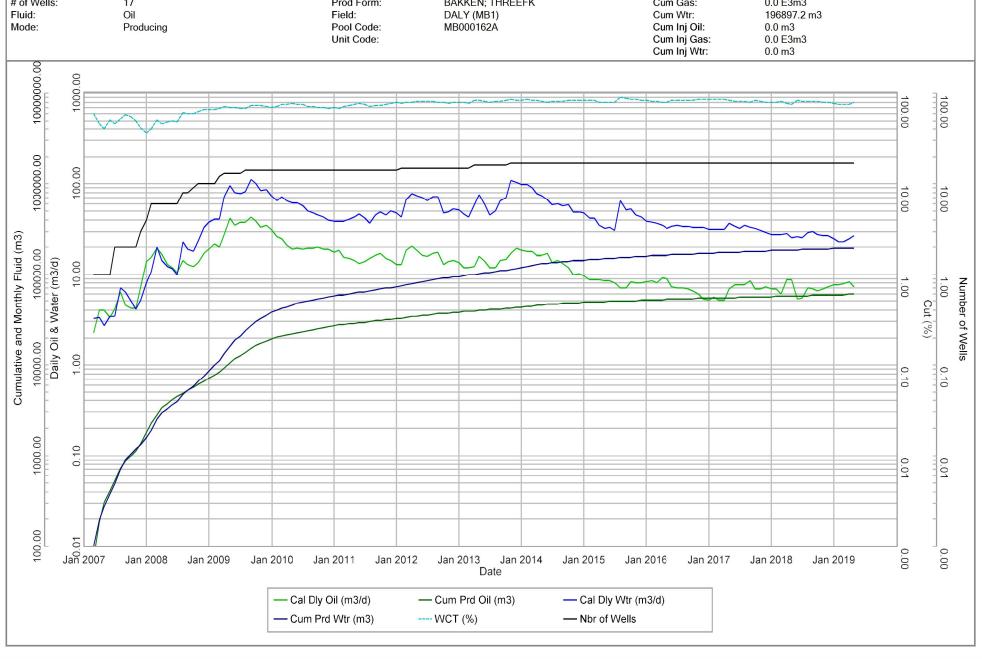
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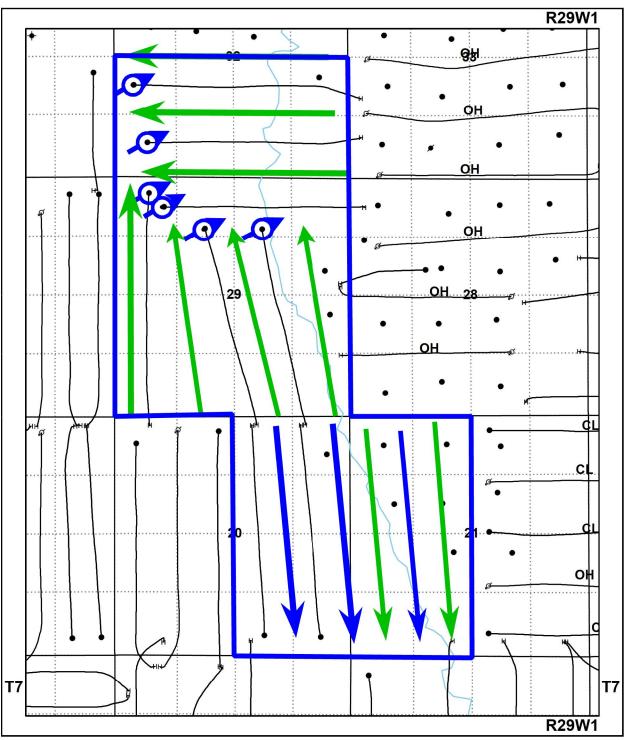
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Figure No. 3



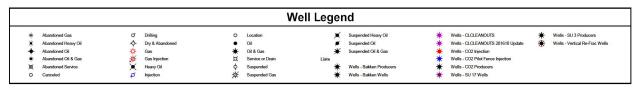
Bakken & Bakken Torquay Formation Pools (60 & 62)

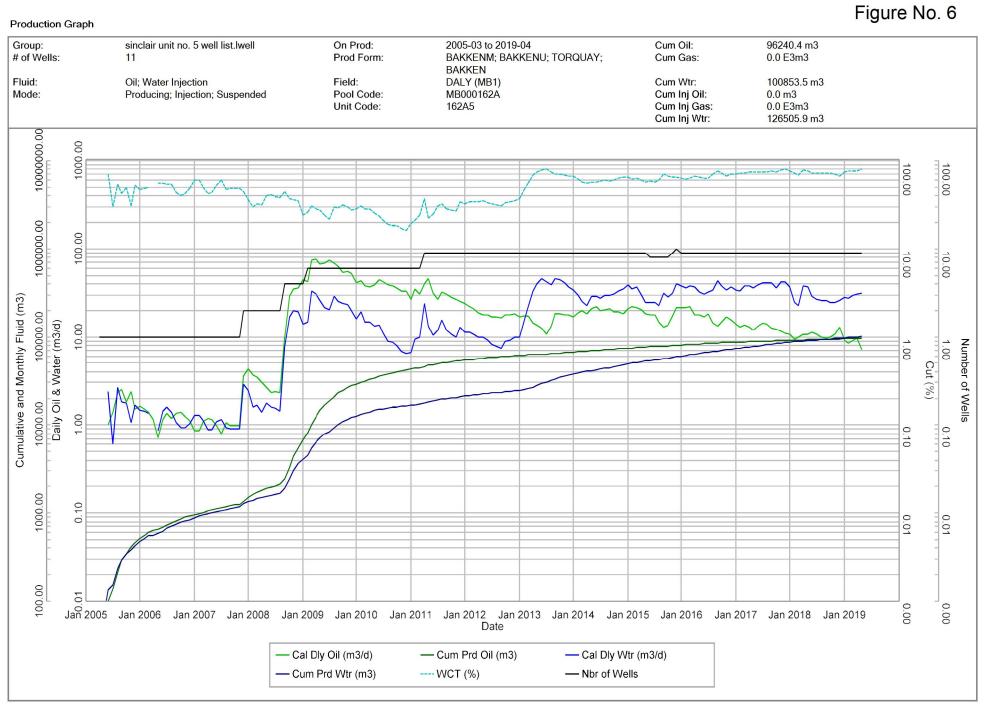




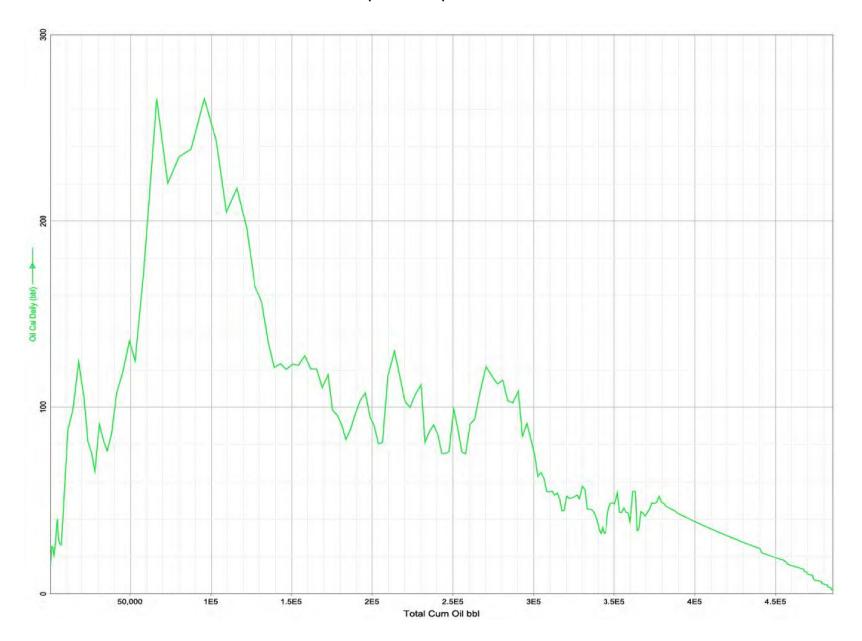
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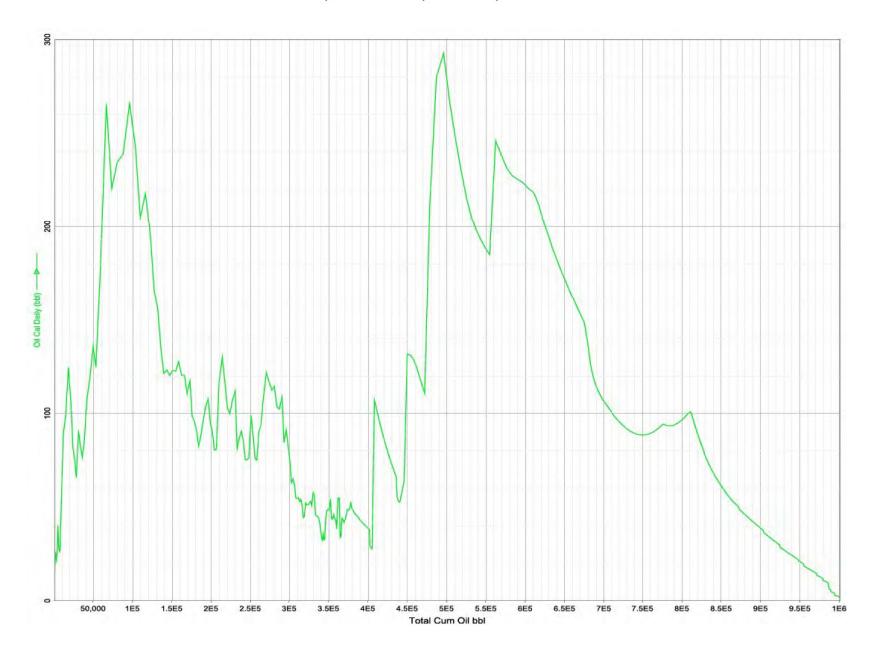




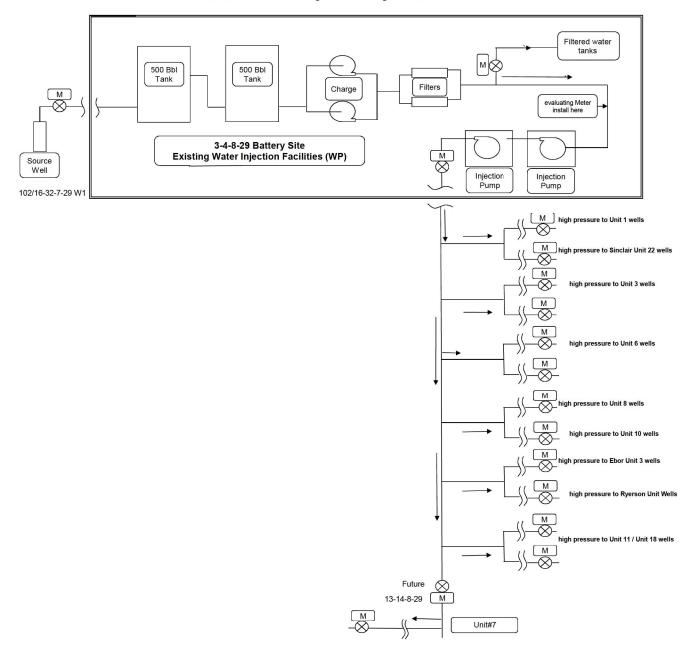


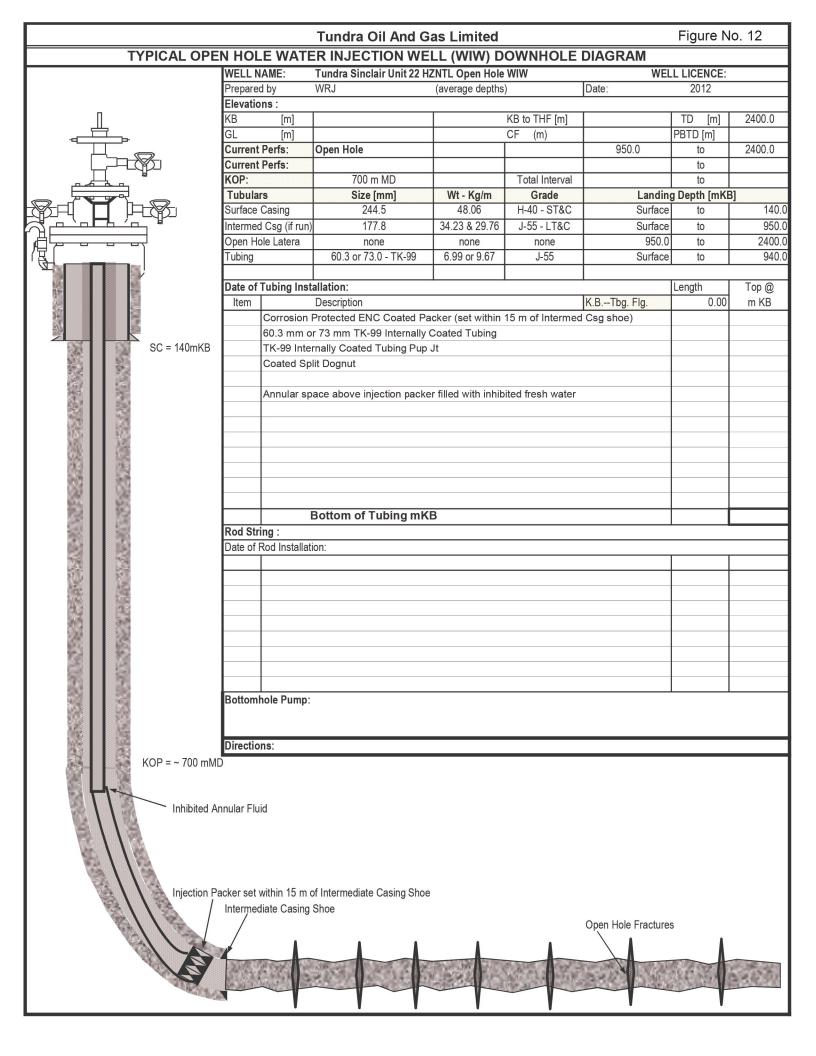






Sinclair Water Injection System





Sinclair Unit No. 22

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 the injection wells 2000 psi high pressure Fiberglass

Facilities

- 3-4-8-29 Water Plant and New Injection Pump Station
 - o 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 13

^{**} subject to final design and engineering

Proposed Sinclair Unit No. 22

Application for Enhanced Oil Recovery Waterflood Project

List of Tables

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Table 2	Tract Factor Calculation
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TABLE NO. 2: TRACT FACTOR CALCULATIONS FOR SINCLAIR BAKKEN UNIT NO. 22 APPLICATION TRACT FACTORS BASED ON OIL-IN-PLACE (OOIP) - CUMULATIVE PRODUCTION TO APRIL 2019

LCD CEC	T	0010 (2)	HZ Wells Alloc	Vert Wells	Sum Hz + Vert	0010 0	Tract Factor	Total	
LSD-SEC	Tract	OOIP (m3)	Cum Prodn	Cum Prodn	Alloc Cum Prodn	OOIP - Cum	(%)	Tract	
01-20	01-20-007-29W1M	64,279	(m3) 1,638.0	(m3) 0.0	1,638.0	62,641	1.926028140%	01-20-007-29W1M	
02-20	02-20-007-29W1M	65,517	1,270.7	0.0	1,270.7	64,246	1.975389072%	02-20-007-29W1M	
07-20	07-20-007-29W1M	66,707	1,376.1	0.0	1,376.1	65,331	2.008727295%	07-20-007-29W1M	
08-20	08-20-007-29W1M	67,176	1,709.6	0.0	1,709.6	65,466	2.012890085%	08-20-007-29W1M	
09-20	09-20-007-29W1M	68,791	1,696.9	0.0	1,696.9	67,094	2.062957723%	09-20-007-29W1M	
10-20	10-20-007-29W1M	71,304	1,389.7	0.0	1,389.7	69,914	2.149665005%	10-20-007-29W1M	
15-20	15-20-007-29W1M	74,182	911.2	0.0	911.2	73,271	2.252865493%	15-20-007-29W1M	
16-20	16-20-007-29W1M	72,783	867.2	973.1	1,840.3	70,943	2.181289661%	16-20-007-29W1M	
03-21	03-21-007-29W1M	68,432	0.0	0.0	0.0	68,432	2.104083565%	03-21-007-29W1M	
04-21	04-21-007-29W1M	67,260	0.0	0.0	0.0	67,260	2.068056576%	04-21-007-29W1M	
05-21	05-21-007-29W1M	69,425	0.0	0.0	0.0	69,425	2.134625446%	05-21-007-29W1M	
06-21	06-21-007-29W1M	77,114	0.0	2,602.5	2,602.5	74,511	2.290997674%	06-21-007-29W1M	
11-21	11-21-007-29W1M	76,077	0.0	803.0	803.0	75,274	2.314461571%	11-21-007-29W1M	
12-21	12-21-007-29W1M	68,828	0.0	1,123.2	1,123.2	67,705	2.081729870%	12-21-007-29W1M	
13-21	13-21-007-29W1M	83,952	0.0	1,356.5	1,356.5	82,595	2.539571366%	13-21-007-29W1M	
14-21	14-21-007-29W1M	86,251	0.0	3,991.8	3,991.8	82,259	2.529228595%	14-21-007-29W1M	
01-29	01-29-007-29W1M	80,344	1,019.8	0.0	1,019.8	79,324	2.438987597%	01-29-007-29W1M	
02-29	02-29-007-29W1M	79,609	1,865.4	0.0	1,865.4	77,743	2.390385393%	02-29-007-29W1M	
03-29	03-29-007-29W1M	81,918	228.1	0.0	228.1	81,689	2.511713300%	03-29-007-29W1M	
04-29	04-29-007-29W1M	85,099	961.6	0.0	961.6	84,138	2.586994490%	04-29-007-29W1M	
05-29	05-29-007-29W1M	88,919	1,078.8	0.0	1,078.8	87,840	2.700837471%	05-29-007-29W1M	
06-29	06-29-007-29W1M	85,734	1,031.0	0.0	1,031.0	84,703	2.604365985%	06-29-007-29W1M	
07-29	07-29-007-29W1M	83,870	1,967.2	0.0	1,967.2	81,903	2.518269937%	07-29-007-29W1M	
08-29	08-29-007-29W1M	83,734	349.3	3,449.6	3,798.9	79,935	2.457785081%	08-29-007-29W1M	
09-29	09-29-007-29W1M	85,131	0.0	5,708.8	5,708.8	79,422	2.442007884%	09-29-007-29W1M	
10-29	10-29-007-29W1M	88,141	1,787.9	0.0	1,787.9	86,353	2.655115811%	10-29-007-29W1M	
11-29	11-29-007-29W1M	90,429	1,541.7	0.0	1,541.7	88,887	2.733017431%	11-29-007-29W1M	
12-29	12-29-007-29W1M	93,608	1.081.4	0.0	1,081.4	92,526	2.844915081%	12-29-007-29W1M	
13-29	13-29-007-29W1M	97,415	1,933.3	0.0	1,933.3	95,482	2.935783654%	13-29-007-29W1M	
14-29	14-29-007-29W1M	94,663	2,580.6	0.0	2,580.6	92,082	2.831266856%	14-29-007-29W1M	
15-29	15-29-007-29W1M	91,093	2,633.7	0.0	2,633.7	88,459	2.719862242%	15-29-007-29W1M	
16-29	16-29-007-29W1M	88,080	2,058.5	0.0	2,058.5	86,021	2.644903332%	16-29-007-29W1M	
01-32	01-32-007-29W1M	92,980	637.1	0.0	637.1	92,343	2.839275435%	01-32-007-29W1M	
02-32	02-32-007-29W1M	93,904	681.8	0.0	681.8	93,222	2.866297281%	02-32-007-29W1M	
03-32	03-32-007-29W1M	95,751	677.3	0.0	677.3	95,074	2.923235282%	03-32-007-29W1M	
04-32	04-32-007-29W1M	98,271	477.5	0.0	477.5	97,793	3.006858443%	04-32-007-29W1M	
05-32	05-32-007-29W1M	101,662	1,044.4	0.0	1,044.4	100,617	3.093696653%	05-32-007-29W1M	
06-32	06-32-007-29W1M	97,317	1,112.6	0.0	1,112.6	96,204	2.958008269%	06-32-007-29W1M	
07-32	07-32-007-29W1M	94,716	1,129.6	0.0	1,129.6	93,586	2.877512768%	07-32-007-29W1M	
08-32	08-32-007-29W1M	92,161	1,018.0	522.1	1,540.1	90,621	2.786337187%	08-32-007-29W1M	
		3.312.625	39.756.0	20.530.6	60.286.6	3.252.339	100.0000000000%		

3,312,625 39,756.0 20,530.6 60,286.6 3,252,339 100.000000000%

TABLE NO. 3 - Well List and Status

	License		Pool	Producing		On		Cal Dly	Monthly	Cum Prd	Cal Dly	Monthly	Cum Prd	
UWI	Number	Туре	Name	Zone	Mode	Production	Prod Date	Oil	Oil	Oil	Water	Water	Water	WCT
						Date		(m3/d)	(m3)	(m3)	(m3/d)	(m3)	(m3)	(%)
100/01-20-007-29W1/0	006892	Horizontal	BAKKEN-THREE FORKS A	BAKKEN	Producing	2/28/2009	Apr-2019	0.54	16.20	6003.70	2.34	70.30	22840.80	81.27
100/02-20-007-29W1/0	006918	Horizontal	BAKKEN-THREE FORKS A	BAKKEN	Producing	7/29/2009	Apr-2019	0.45	13.60	4855.70	1.48	44.40	19454.40	76.55
100/16-20-007-29W1/0	006593	Vertical	BAKKEN-THREE FORKS A	BAKKEN	Producing	7/9/2008	Apr-2019	0.18	5.30	973.10	0.43	13.00	3098.90	71.04
100/06-21-007-29W1/0	006287	Vertical	BAKKEN-THREE FORKS A	BAKKEN	Producing	6/30/2007	Apr-2019	0.21	6.20	2602.50	0.40	12.10	3441.80	66.12
100/11-21-007-29W1/0	006546	Vertical	BAKKEN-THREE FORKS A	BAKKEN	Producing	1/31/2008	Apr-2019	0.06	1.70	803.00	0.39	11.80	2535.00	87.41
100/12-21-007-29W1/0	006728	Vertical	BAKKEN-THREE FORKS A	BAKKEN	Producing	9/22/2008	Apr-2019	0.07	2.20	1123.20	0.91	27.20	3206.60	92.52
100/13-21-007-29W1/0	006537	Vertical	BAKKEN-THREE FORKS A	BAKKEN	Producing	1/31/2008	Apr-2019	0.26	7.70	1356.50	0.30	8.90	2871.10	53.61
100/14-21-007-29W1/0	006225	Vertical	BAKKEN-THREE FORKS A	BAKKEN	Producing	2/18/2007	Apr-2019	0.42	12.60	3991.80	0.28	8.40	4247.00	40.00
100/08-29-007-29W1/0	006504	Vertical	BAKKEN-THREE FORKS A	BAKKEN	Producing	12/20/2007	Apr-2019	0.32	9.50	3449.60	0.30	9.00	2497.20	48.65
100/09-29-007-29W1/0	006465	Vertical	BAKKEN-THREE FORKS A	BAKKEN	Producing	11/20/2007	Apr-2019	0.48	14.30	5708.80	0.31	9.30	1940.20	39.41
100/13-29-007-29W1/0	006750	Horizontal	BAKKEN-THREE FORKS A	BAKKEN	Producing	10/31/2008	Apr-2019	0.69	20.60	7169.30	2.41	72.30	20844.60	77.83
102/13-29-007-29W1/0	009204	Horizontal	BAKKEN-THREE FORKS A	BAKKEN,THREEFK	Producing	3/17/2013	Apr-2019	1.62	48.50	4130.80	5.37	161.00	23101.60	76.85
100/14-29-007-29W1/0	006905	Horizontal	BAKKEN-THREE FORKS A	BAKKEN	Producing	3/18/2009	Apr-2019	0.36	10.90	5072.90	1.35	40.50	22462.70	78.79
100/15-29-007-29W1/0	006893	Horizontal	BAKKEN-THREE FORKS A	BAKKEN	Producing	2/28/2009	Apr-2019	0.46	13.70	5745.30	1.04	31.30	17503.70	69.56
100/04-32-007-29W1/0	008783	Horizontal	BAKKEN-THREE FORKS A	THRFFFK, BAKKFN	Producing	10/3/2013	Apr-2019	0.55	16.60	2473.70	5.05	151.40	19686.20	90.12
100/05-32-007-29W1/0	008363	Horizontal	BAKKEN-THREE FORKS A	BAKKEN	Producing	1/31/2012	Apr-2019	0.61	18.40	4304.60	3.91	117.30	22859.50	86.44
100/08-32-007-29W1/0	006657	Vertical	BAKKEN-THREE FORKS A	BAKKEN	Producing	7/7/2008	Apr-2019	0.06	1.70	522.10	0.55	16.50	4305.90	90.66
										60286 60			196897 20	

60286.60 196897.20

TABLE NO. 4: OOIP Calculation

SD			Mid Bkn	Har Also	Lwr A Iso	Mid Bkn OOIP	Upr A OOIP	Lwr A OOIP	Sum OOIP	Sum OOIP
01-20-007-29	ISD	Aroa (mA2)	1000							
02-20-007-29		, ,	. ,	` '	` '	` ,		, ,	` '	. ,
07-20-007-29 158287 2.4 2.8 3.5 10245 35736 20726 66707 419573 08-20-007-29 158203 2.0 3.1 39577 37038 20740 67176 422522 09-20-007-29 158203 2.0 3.1 3.5 9897 37038 20715 68791 422522 09-20-007-29 158108 2.3 3.2 3.5 9807 40795 20702 71304 448489 15-20-007-29 158003 1.9 3.5 3.5 38943 44563 20676 74182 466591 16672-007-29 161359 2.2 2.9 3.5 9573 37731 21128 68432 430424 04-21-007-29 160629 2.3 2.8 3.5 9963 36265 21032 6209 2.3 2.8 3.5 9963 36265 21032 69425 346672 06-21-007-29 161388 1.8 3.7 3.5 7834 48148 21132 77114 485029 1212-1007-29 16								0.3000000000000000000000000000000000000	1000000	100000000000000000000000000000000000000
08-20-007-29 158397 2.2 2.9 3.5 9397 37038 20740 67176 422522 09-20-007-29 158108 2.3 3.2 3.5 8933 39544 20715 68791 432684 15-20-007-29 157908 2.1 3.5 3.5 8943 44563 20676 74182 466591 16-20-007-29 158003 1.9 3.5 3.4 8096 44590 20097 72783 457793 03-21-007-29 161359 2.2 2.9 3.5 5573 37731 121128 66432 43042 04-21-007-29 160629 2.3 2.8 3.5 9963 36265 21032 67260 423054 05-21-007-29 161388 1.8 3.7 3.5 8232 40158 21036 69425 436672 06-21-007-29 161388 1.8 3.7 3.7 3.4 7399 48150 20529 76077 478511 12-1007-29 <td></td>										
09-20-007-29				-						
10-20-007-29 158108 2.3 3.2 3.5 9807 40795 20702 71304 448489 15-20-007-29 157908 2.1 3.5 3.5 3.5 8943 44563 20676 74182 466591 61-20-007-29 158003 1.9 3.5 3.4 8096 44590 20097 72783 457793 03-21-007-29 161339 2.2 2.9 3.5 9573 37731 21128 68432 430424 04-21-007-29 160629 2.3 2.8 3.5 9963 36265 21032 67260 423054 05-21-007-29 160657 1.9 3.1 3.5 8232 40158 21036 69425 436672 05-21-007-29 161388 1.8 3.7 3.5 8232 40158 21036 69425 436672 11-21-007-29 161388 1.8 3.7 3.5 7834 48148 21132 77114 485029 11-21-007-29 160676 1.6 3.2 3.4 6933 41458 20437 68828 432916 12-21-007-29 160076 1.6 3.2 3.4 6933 41458 20437 68828 432916 12-21-007-29 161421 1.3 4.8 3.0 5659 62475 18117 86251 542502 11-21-007-29 161421 1.3 4.8 3.0 5659 62475 18117 86251 542502 10-22-9-007-29 161421 1.8 3.9 3.5 7823 50682 21103 79609 500724 03-29-007-29 161170 1.8 3.9 3.5 7823 50682 21103 79609 500724 03-29-007-29 161178 2.1 4.2 3.5 9158 54766 21175 85099 535259 05-29-007-29 161287 1.7 4.4 3.5 7394 57221 21118 85734 53924 07-29-007-29 161287 1.7 4.4 3.5 7394 57221 21118 85734 53924 07-29-007-29 161287 1.7 4.4 3.5 6949 55835 21068 33870 527525 08-29-007-29 160661 1.2 4.5 3.6 6393 55745 21052 83734 526674 07-29-007-29 161287 1.7 4.4 3.5 6949 55835 21068 83870 527525 08-29-007-29 161648 1.7 5.3 3.5 6949 55835 21086 83870 527525 08-29-007-29 161648 1.7 5.3 3.5 6949 55835 21068 83870 527525 08-29-007-29 161648 1.7 5.3 3.5 6949 55835 21086 83870 527525 08-29-007-29 161648 1.7 5.3 3.5 6949 55835 21086 83870 527525 08-29-007-29 161648 1.7 5.3 3.5 6949 55835 21086 83870						0.00				
15-20-007-29 157908 2.1 3.5 3.5 8943 44563 20676 74182 466591 16-20-007-29 158003 1.9 3.5 3.4 8096 44590 20097 72783 457793 3731 21128 68432 430424 04-21-007-29 161659 2.2 2.9 3.5 9573 3731 21128 68432 430424 04-21-007-29 160629 2.3 2.8 3.5 9963 36265 21032 67260 423054 05-21-007-29 160657 1.9 3.1 3.5 8232 40158 21036 69425 436672 06-21-007-29 161388 1.8 3.7 3.5 7834 48148 21132 77114 485029 11-21-007-29 161393 1.7 3.7 3.4 7399 48150 20529 76077 476511 12-21-007-29 160676 1.6 3.2 3.4 6933 41458 20437 68828 432916 13-21-007-29 160704 1.2 4.5 3.4 5201 58310 20441 83952 528042 4121-007-29 161421 1.3 4.8 3.0 5659 62475 18117 86251 542502 01-29-007-29 160910 1.7 4.0 3.5 7377 51898 21069 80344 505348 02-29-007-29 161170 1.8 3.9 3.5 7823 50682 21103 79609 500724 03-29-007-29 161146 2.0 4.0 3.5 8708 52071 21139 81918 515246 04-29-007-29 161588 1.8 4.6 3.5 7342 59923 21154 88919 559285 05-29-007-29 161578 2.1 4.2 3.5 9158 54766 21175 85099 535259 05-29-007-29 161578 1.7 4.4 3.5 7394 57221 21118 85734 83919 559285 05-29-007-29 161678 1.6 4.3 3.5 6949 55835 21086 83870 527525 08-29-007-29 161640 1.6 4.3 3.5 6937 55745 21052 83734 526674 07-29-007-29 1616941 1.4 4.7 3.5 6076 60992 21073 88141 554392 07-29-007-29 161694 1.7 5.0 3.5 7392 6890 21133 97415 54005 01-29-007-29 161694 1.7 5.0 3.5 7400 65073 21139 94663 59541 13-29-007-29 161694 1.7 5.0 3.5 6076 60992 21073 88141 554392 11-29-007-29 161698 1.4 5.2 3.5 6076 60992 21073 88141 554392 11-29-007-29 161698 1.4 5.2 3.5 6078 67504 21081 94663 59541 13-29-007-29 161698 1.4 5.2 3.5										
16-20-007-29 158003 1.9 3.5 3.4 8096 44590 20097 72783 457793 03-21-007-29 161359 2.2 2.9 3.5 9573 37731 21128 68432 430424 04-21-007-29 160657 1.9 3.1 3.5 8232 40158 21036 69425 436672 06-21-007-29 161388 1.8 3.7 3.5 7834 48148 21132 77114 485029 11-21-007-29 160676 1.6 3.2 3.4 6933 41458 20437 68828 432916 13-21-007-29 160676 1.6 3.2 3.4 6933 41458 20437 68828 432916 13-21-007-29 160704 1.2 4.5 3.4 5933 41458 20441 83952 528042 14-21-007-29 160910 1.7 4.0 3.5 7377 51898 21069 80344 505348 02-29-007-29 <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>E-37-4-50</td> <td></td> <td></td>				-				E-37-4-50		
03-21-007-29 161359 2.2 2.9 3.5 9573 37731 21128 68432 430424 04-21-007-29 160629 2.3 2.8 3.5 9963 36265 21032 67260 423054 05-21-007-29 1603657 1.9 3.1 3.5 8232 40158 21036 69425 436672 06-21-007-29 161388 1.8 3.7 3.5 7834 48148 21132 77114 485029 11-21-007-29 161393 1.7 3.7 3.4 6933 41458 20437 68828 432916 12-21-007-29 160704 1.2 4.5 3.4 6933 41458 20437 68828 432916 14-21-007-29 161421 1.3 4.8 3.0 5659 62475 18117 86251 54250 01-29-007-29 160910 1.7 4.0 3.5 7377 51898 21069 80344 505348 02-29-007-29 <td></td>										
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02-32-007-29 158828 1.2 5.4 3.3 5140 69156 19608 93904 590635 03-32-007-29 157375 1.4 5.5 3.4 5942 69792 20017 95751 602254 04-32-007-29 157077 1.6 5.6 3.5 6778 70926 20567 98271 618104 05-32-007-29 156197 1.5 5.9 3.6 6318 74307 21036 101662 639434 06-32-007-29 156495 1.3 5.7 3.4 5486 71925 19906 97317 612106 07-32-007-29 159763 1.1 5.5 3.2 4739 70851 19126 94716 595746	16-29-007-29	160531	1.0	4.8	3.6	4329	62131	21620	88080	554005
03-32-007-29 157375 1.4 5.5 3.4 5942 69792 20017 95751 602254 04-32-007-29 157077 1.6 5.6 3.5 6778 70926 20567 98271 618104 05-32-007-29 156197 1.5 5.9 3.6 6318 74307 21036 101662 639434 06-32-007-29 156495 1.3 5.7 3.4 5486 71925 19906 97317 612106 07-32-007-29 159763 1.1 5.5 3.2 4739 70851 19126 94716 595746	01-32-007-29	159163	0.8	5.4	3.4	3434	69301	20245	92980	584826
04-32-007-29 157077 1.6 5.6 3.5 6778 70926 20567 98271 618104 05-32-007-29 156197 1.5 5.9 3.6 6318 74307 21036 101662 639434 06-32-007-29 156495 1.3 5.7 3.4 5486 71925 19906 97317 612106 07-32-007-29 159763 1.1 5.5 3.2 4739 70851 19126 94716 595746	02-32-007-29	158828	1.2	5.4	3.3	5140	69156	19608	93904	590635
05-32-007-29 156197 1.5 5.9 3.6 6318 74307 21036 101662 639434 06-32-007-29 156495 1.3 5.7 3.4 5486 71925 19906 97317 612106 07-32-007-29 159763 1.1 5.5 3.2 4739 70851 19126 94716 595746	03-32-007-29	157375	1.4	5.5	3.4	5942	69792	20017	95751	602254
06-32-007-29 156495 1.3 5.7 3.4 5486 71925 19906 97317 612106 07-32-007-29 159763 1.1 5.5 3.2 4739 70851 19126 94716 595746	04-32-007-29	157077	1.6	5.6	3.5	6778	70926	20567	98271	618104
07-32-007-29 159763 1.1 5.5 3.2 4739 70851 19126 94716 595746	05-32-007-29	156197	1.5	5.9	3.6	6318	74307	21036	101662	639434
	06-32-007-29	156495	1.3	5.7	3.4	5486	71925	19906	97317	612106
08-32-007-29 160098 0.9 5.4 3.1 3886 69709 18567 92161 579677	07-32-007-29	159763	1.1	5.5	3.2	4739	70851	19126	94716	595746
	08-32-007-29	160098	0.9	5.4	3.1	3886	69709	18567	92161	579677

3312625 20835785

Boi	1.1
Porosity	0.161
Mid Bkn N/G	0.335
Upr A N/G	0.787
Lwr A N/G	0.426
Mid Bkn Sw	0.45
Upr A Sw	0.30
Lwr A Sw	0.40