

# Powder River Resources

# **POWDER RIVER BASIN**

# WEST SALT CREEK FIELD

13 Active Wells Including 3 Niobrara Wells 100% Operated WI 80% NRI Net Production: 15-25 BOPD

August, 2015

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#### Growth Capital, Inc. Assets Overview

Location: CGrowth Capital, Inc. is a publicly-held oil and gas exploration, drilling and operating company with investment opportunities available in the following area: • Powder River Basin, West Salt Creek Field, Natrona County, Wyoming

#### Assets:

- ~3,038 net acres (~87% HBP)
  - 60% of Acreage includes all Depths
  - 13-17 Active Wells
  - Shut-In Wells

**Control:** • CGrowth Operates All Production.

- 100% WI
- 80% Avg. NRI



- Highlights: Niobrara, Mowry and Wall Creek Formations Drilling Opportunities
  - CGrowth Leasehold Surrounded By Extremely Active Permitting/Drilling
  - Immediate Farm-Out Opportunities Available
  - Located adjacent to Anadarko's EOR Project in the Salt Creek Field
  - Opportunity to Acquire Additional Adjacent Acreage and Producing Wells



## **Opportunity Summary**

**CGrowth Capital**, Inc. ("CGrowth" or the "Company"), is a publicly-held oil and gas exploration, drilling and operating company headquartered in Silverdale, Washington. CGrowth owns approximately 3,038 net acres of producing oil and gas properties (the "Assets"), located in the Powder River Basin, in the West Salt Creek Field of Natrona County, Wyoming. The Company's current net production is approximately 20 BOPD from 13 active wells, including three Niobrara wells.

CGrowth has one hundred percent (100%) operational control over all their production in the West Salt Creek Field over the majority of the wells. CGrowth's combined Net Revenue Interests average approximately eighty percent (~80%) and they have a one hundred percent (100%) working interest in all leases. However for two wellbores there are fractional working interest holders that could be acquired.

CGrowth and its partners have demonstrated the ability to increase and drive production through multiple field and well redevelopment projects over the last six months. Additional redevelopment opportunities exist for the investor of these Assets to further increase production. These redevelopment opportunities and associated costs are discussed in greater detail on page 21. In addition, CGrowth has researched and identified several drilling opportunities, utilizing CGrowth's current leasehold as outlined on page 18. The Company's is also actively discussing farm-out opportunities with several interested parties for the Niobrara, 2<sup>nd</sup> Wall Creek, and Mowry formations.

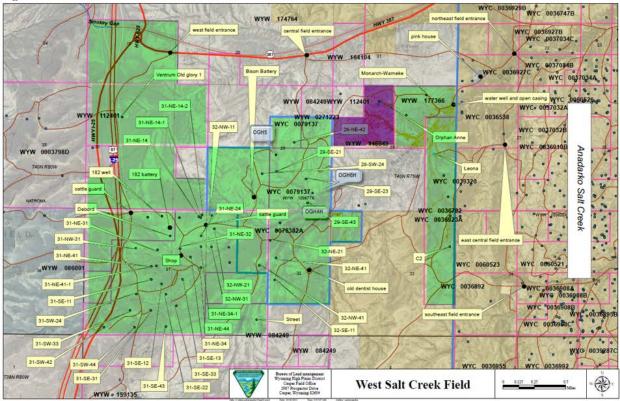






#### **Leases Summaries**

CGrowth owns approximately 3,038 net acres of federal and fee leases in the West Salt Creek Field area. Approximately eighty-seven percent (~87%) of this acreage is Held by Production ("HPB"). Federal lease WYW-148949 shown in purple below needs to be re-acquired see discussion below. Figure 1 shows CGrowth's total West Salt Creek Field lease acreage in green.





#### **Active Wells**

CGrowth currently has 13-17 active wells producing on average 20 BOPD as outlined below in Figure 2. A thorough and detailed summary of each active well and associated lease can be found starting on page 14.

WEST SALT CREEK PRODUCING EXISTING WELL SUMMARY														
Lease	Well	Pay Zone	Location	acreage	spacing	Net Revenue Interest	Working Interest	Well Status	Water Disposal	PDP	PDNP	% Oil Cut	BOPD after Workover & Parrafin Treatment	BOPD w/ water disposal well
Ronnie Robb - WYW31808	DeBord #161	Fishtooth	Natrona Co., WY	149.46	Unit	80.0%	100%	Producing	pit	1		20%	3	3
Ronnie Robb - WYW86091	Federal #182H	Niobrara	Natrona Co., WY	514.96	Unit	50.3%	73%	Producing	N/A	4		100%	75	75
	McAlpin 6	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		20%	3	5
	McAlpin 10	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		20%	3	5
	FT179	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		20%	3	5
	FT 156	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		20%	3	5
	WSC Unit 2-8AX	Wall Creek	Natrona Co., WY	758.13	Unit	80.0%	100%	Producing	pit	0		40%	9	12
	WSC Unit 1-2	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		20%	3	5
Mystique (Bison) (WYW	WSC Unit 5-22	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		40%	3	5
109677X Unit)	WSC Unit 5-23	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		45%	3	5
	H Jorth 5-21	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		50%	3	5
	WSC Unit 2-2	Wall Creek	Natrona Co., WY		Unit	77.5%	100%	Producing	pit	1		20%	3	5
Topper - WYW036782	Fed C-036782-2	Niobrara	Natrona Co., WY	120	Unit	69.5%	100%	Producing	pit	2		10%	5	7
L & J - WYW84249	Street Fed W 842491	Wall Creek	Natrona Co., WY	241.32	Unit	80.0%	100%	Producing	pit	5		40%	12	12
WYW177366	Monarch-Warnake #5	Niobrara	Natrona Co., WY	120		56.4%	73%	Producing	N/A	5			25	25
	OGH #1	Niobrara	Natrona Co., WY	816.81		80.0%	100%	Producing	Hauled	5			25	5
NORTH FINN	OGH #5	Niobrara	Natrona Co., WY	158.13		80.0%	100%	Producing	N/A	3			20	3
TOTALS										29			201	187

#### Figure 2: CGrowth Active and Producing Wells Summary

Spring 2015 Update: McAlpin 6, McAlpin 10 Fishtooth 156 and 179 have all been reactivated- These wells are connected to one Battery and located on the WYW86091 lease.

#### **Net Revenue Interests and Royalties**

The leases listed in Figure 3 show the Net Revenue Interest for each lease. With two exceptions, CGrowth's Net Revenue Interest is eighty percent (80%) on all leases. The BLM receives an eighth royalty (12.5%). CGrowth has begun the process of removing certain ORRI interests via quiet title actions. While there is no certainty of the outcome, CGrowth expects to increase the NRI on some of the properties listed below. CGrowth has title reports for most of the lease blocks/wells in the West Salt Creek Field.

Figure 3: CGrowth Leases Summary											
	West Salt Cree	<u>k Wyom</u>	ing Lease Sun	nmary							
Lease Name - Purchased From	Lease Number	Acreage	Lease Depths	Ownership Structure	Net Revenue Interest	Royalty & ORRI					
Ron Robb	WYW 31808	149.46	Surface to Basement	CGrow th Capital, Inc.	80.00	20.00					
Roll Robb	WYW 86091	514.96	Surface to Basement	CGrow th Capital, Inc.	80.00	20.00					
	USAC 076382A	80.00	Surface to Basement		80.00	20.00					
Mystique (Bison) (WYW 109677X - Unit)	USA-C079137	200.00	Surface to Basement		77.50	22.50					
	<del>W 02712223</del>	4 <del>0.00</del>	Surface to Basement	CGrow th Capital, Inc.	80.00	20.00					
	Tract 4	158.13	Below Niobrara Only		80.00	20.00					
	Tract 5	320.00	Surface to Basement		80.00	20.00					
L & J Operating (Street Federal)	WYW 84249	241.32	Surface to Basement	CGrow th Capital, Inc.	80.00	20.00					
Monarch-Warneke Lease	WYW 177366	120.00	Surface to Basement	CGrow th Capital, Inc.	80.00	20.00					
List Springs (Tenner Bah Dugan)	WYW 148949	<del>120.00</del>	Surface to Decement	CCrowth Conital Inc	80.00	20.00					
Hot Springs (Topper Bob-Dugan)	WYC 036782	120.00	Surface to Basement	CGrow th Capital, Inc.	69.50	30.50					
Total		1903.87									
North Finn Leases	HBP FED WYW - 112401	816.81	Surface to Basement	CGrow th Capital, Inc.	80.00	20.00					
	Tract 4 North Finn Surf-N	158.13	Surface to bottom of the Niobrara	CGrow th Capital, Inc.	80.00	20.00					
Total		2878.81									

#### Figure 3: CGrowth Leases Summary

Spring 2015 Update: the WYW148949 is no longer included due to the fact the last well holding the lease had to be plugged. The lease could be nominated and re-acquired through a federal auction. Additionally 02712223 would need to be re-nominated with the State.

#### **Working Interest**

CGrowth has a one hundred percent (100%) working interest in all leases with the exception of a portions of the acreage in the West Salt Creek 2<sup>nd</sup> Wall Creek Unit. North Finn owns the oil & gas rights from the base of the Fishtooth Sandstone to the base of the Niobrara Formation in the SE/4 of section 29 and Bissell Oil owns the oil & gas rights over the same interval in the S/2NE & SW/4 of section 29 and the E/2NW & the E/2 of section 32, T40N-R79W.

#### Reserves

*See* David L. Law Reserve Report as of April 20, 2010 performed for our operator Fossil Energy. It is the Company's intention to update the reserve report now that the Anadarko field has been energized by CO2 and we have begun seeing increased pressures in our field.

#### **Licensed Operator**

Fossil Energy is the bonded operator for its West Salt Creek assets. Fossil holds both state and federal bonds in the total amount of \$75,000.00. Fossil carries adequate liability insurance which covers all standard oil field operations.



#### Lease Operating Expenses

CGrowth's Lease Operating Expenses ("LOE's"), which include payroll expenses, have been averaging approximately nine thousand dollars (\$9,000) per month YTD for the ten (10) active wells. These LOE's are not expected to increase as CGrowth brings additional wells online.

#### **State Taxes**

CGrowth's current producing stripper wells are taxed by the state of Wyoming at a rate of four percent (4%). New wells are taxed by the state at the rate of six percent (6%).

#### **Farm-Out Potential**

CGrowth is actively discussing farm-out opportunities with several interested parties for the Niobrara, 2<sup>nd</sup> Wall Creek, and Mowry formations. The farm-out terms and conditions being discussed has the potential parties earning various WI% by paying costs to drill and complete each well. No farm-out agreements have been executed at this time by CGrowth, nor is it expected that any will be executed before the investment into the Assets. It is the intention of CGrowth that these non-executed farm-out agreements be part of the overall asset package and could be negotiated and executed if they determine to do so.

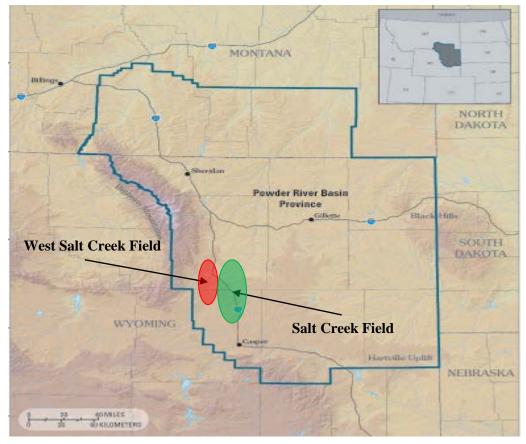
#### **Neighboring Enhanced Oil Recovery Project**

In 2004, Howell Petroleum Corporation, a wholly owned subsidiary of Anadarko Petroleum Corporation ("Anadarko"), began operation of an Enhanced Oil Recovery ("EOR") project in the Salt Creek field, which is located directly adjacent to CGrowth's West Salt Creek leasehold area and wells. The project involves the injection of carbon dioxide ("CO<sub>2</sub>") into the existing oil field to improve the production of oil by increased field pressurization. The EOR project in the Salt Creek field has currently increased overall oil production for Anadarko by more than 22,000 BOPD since the project began. CGrowth has also started to see positive increases in oil production on some its wells as pressurization continues to increase in the adjacent area from Anadarko's EOR project.



## West Salt Creek Field

The West Salt Creek Field lies in the southwest part of the Powder River Basin in Wyoming on the northeast side of a structural saddle between the Bighorn Mountains and Laramie Range, as seen in Figure 4. This saddle, named the Casper Arch, separates the Powder River Basin from the Wind River Basin. Production associated with the West Salt Creek field is from oil wells drilled in the western half of T40N-R-79W, and the area of T39N-R79W, Natrona County, Wyoming. These producing oil fields are located to the west of, and adjacent to, the giant Salt Creek Field, the largest accumulation of hydrocarbons ever discovered in Wyoming and the location of Anadarko's massive EOR project.





## West Salt Creek Field Geology

Located in the western margin of the Powder River Basin in Wyoming and on the western flanks of the giant Salt Creek Anticline is the West Salt Creek Field. The general geological environment of the field is located on a large gently dipping syncline transitional structure that has lithological pinch-out traps, and several east west striking normal faults and fractures.





The adjacent Salt Creek Field and Teapot Dome Field are faulted anticlinal traps with over 1,000 feet of vertical closure in 4-6 different stratigraphic reservoirs of various ages. The West Salt Creek Field is a subtle synclinal stratigraphic trap formed by continuous leakage and flow of oil and gas beyond the trap in Salt Creek Field into the West Salt Creek Field. There are a large number of east-west cross-faults that have allowed for the continuous migration of hydrocarbons into the subtle traps to the west.

The West Salt Creek Field demonstrates relatively little vertical closure and produces from three reservoirs, the Fishtooth Sandstone share and two deeper Wall Creek members of the Frontier formation. The oil appears to be trapped in subtle lithological pinch-out traps of the Wall Creek formation from east to west. The Niobrara Shale formation is also present throughout the West Salt Creek Field, and even though this formation has been historically drilled, the older vertical drilling technology only allowed for small areas of the fractured shale to produce and then, only if a fracture zone was encountered. New horizontal drilling technology has shown tremendous promise for high oil production potential in the Niobrara which is located throughout the field.

The Mowry Shale formation is also present throughout the West Salt Creek Field however, this formation has yet to be drilled and produced in any significant manner. In the Powder River Basin of northeast Wyoming the Mowry Shale has generated billions of barrels of oil. One would expect maximum fracturing in the Mowry Formation in the synclinal area on the CGrowth acreage which could lead to significant undiscovered oil deposit.

## West Salt Creek Field Production History

The West Salt Creek Field has a cumulative production of approximately 1,900,000 BO from the 2<sup>nd</sup> Wall Creek Sandstone, the Fishtooth Sandstone and fractured Steele Shale and Niobrara Shale. The production that has been assigned to the West Salt Creek Field excludes approximately 500,000 BO that was produced from fractured Steele and Niobrara reservoirs when much of this area was included in the giant Salt Creek Field.

Approximately 350,000 BO was produced from the Fishtooth Sandstone, approximately 35,000 BO from Steele and Niobrara fractured reservoirs and approximately 1.47 million BO from the 2<sup>nd</sup> Wall Creek Sandstone. Water floods were initiated in both the Fishtooth and 2<sup>nd</sup> Wall Creek Sandstones. Both sandstones are highly faulted over much of these reservoirs areal extent so that the water floods were not very efficient and recovered small portions of what was projected.

West Salt Creek Field is sandwiched between the Smoky Gap Field which has produced 705,868 BO from the 2nd bench of the Niobrara Formation and the giant Salt Creek Field which has produced approximately 684,700,000 BO and approximately 726,380,000 MCF from numerous horizons, with over 400,000,000 BO being produced from just the 2<sup>nd</sup> Wall Creek Sandstone.





## Leases and Wells

CGrowth owns 3,038 acres of federal and fee leases in the West Salt Creek Field area. Located within this leasehold area are 42 wells, of which 13-17 are active and producing and are discussed in detail in the following section, Leases and Active Well Details, starting on page 15. The status of the remaining 25 wells is summarized below in Figure 5.

			WEST SALT	CREEK &	& NOR	TH FINN EXI	STING V	<b>WELL SUMMARY</b>		-				
Lease	Well	Pay Zone	Location	acreage	spacing	Net Revenue Interest	Working Interest	Well Status	Water Disposal	PDP	PDNP	% Oil Cut	BOPD after Workover & Parrafin Treatment	BOPD w/ water disposal well
Ronnie Robb - WYW31808	DeBord #161	Fishtooth	Natrona Co., WY	149.46	Unit	80.0%	100%	Producing	pit	1		20%	3	3
	Federal #182H	Niobrara	Natrona Co., WY	514.96	Unit	45.0%	100%	Producing	N/A	4		100%	75	75
	Mcalpin 5	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in since 12/15/07	pit		1	10%	2	3
	Mcalpin 11	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in since 12/15/07	pit		1	10%	2	3
	Mcalpin 159	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in since 12/15/07	pit		1	10%	2	3
	Fishtooth 152	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in since 12/15/07	pit		1	10%	2	3
	Fishtooth 170	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in since 12/15/07	pit		1	10%	2	3
	178 Fishtooth #2	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in since 12/15/07	pit		1	10%	2	3
	Fishtooth 179	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in since 12/15/07	pit		1	10%	2	3
	Mcalpin 1	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Temp. Abandoned	pit				P & A	
	Mcalpin 7	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Temp. Abandoned	pit				P & A	
	Mcalpin 12	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Temp. Abandoned	pit				P & A	
	Mcalpin 155	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Temp. Abandoned	pit				P & A	
Ronnie Robb - WYW86091	Fishtooth 165	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2	3
	Frazier 2	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2	3
	Frazier 3	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2	3
	Frazier 4	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2	3
	Frazier 157 #6	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2	3
	Kaige 3	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Temp. Abandoned	pit				P & A	
	Martin 21	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Temp. Abandoned	pit				P&A	
	Mcalpin 6	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2	3
	Mcalpin 10	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2	3
	Fishtooth 156	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2	3
	Kaige 2	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2	3
	Martin 5	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2	3
	Government 1	Niobrara	Natrona Co., WY		Unit	80.0%	100%	Shut-in	pit		1	10%	2 BOPD after	3 BOPD w/
Lease	Well	Pay Zone	Location	acreage	spacing	Net Revenue Interest	Working Interest	Well Status	Water Disposal	PDP	PDNP	% Oil Cut	Workover & Parrafin	water disposal
	WSC Unit 4-3	Wall Creek	Natrona Co., WY	800	Unit	80.0%	100%	Water disposal Permit				10%		
	WSC Unit 2-8AX	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	6		40%	9	12
	WSC Unit 1-2	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		20%	3	5
Mystique (Bison) (WYW	WSC Unit 5-22	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		40%	3	5
109677X Unit)	WSC Unit 5-23	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		45%	3	5
107077X Only	H Jorth 5-21	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	Producing	pit	1		50%	3	5
	WSC Unit 4-12	Fishtooth	Natrona Co., WY		Unit	80.0%	100%	P & A				0%		
	WSC Unit 4-7	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	P&A				0%		
	WSC Unit 2-2	Wall Creek	Natrona Co., WY		Unit	77.5%	100%	Producing	pit	1		20%	3	5
								Shut-in since 2011 -						
Topper - WYW036782	Leona C 03782-2	Niobrara	Natrona Co., WY	120	Unit	69.5%	100%	Needs workover	pit		2	90%	8	10
	Fed C-036782-2	Niobrara	Natrona Co., WY		Unit	69.5%	100%	Producing	pit	2		10%	5	7
L & J - WYW84249	Street Fed W 842491	Wall Creek	Natrona Co., WY	241.32	Unit	80.0%	100%	Producing	pit	8		40%	12	12
WYW177366	Monarch-Warnake #5	Niobrara	Natrona Co., WY	120	1	80.0%	100%	Producing	N/A	15			25	25
Hot Springs - WYW 148949	Orphan Annie 1	Wall Creek	Natrona Co., WY		Unit	80.0%	100%	Producing	pit		2	40%	10	12
	OGH #1	Niobrara	Natrona Co., WY			80.0%	100%	Producing	Hauled	5	-		25	5
NORTH FINN	OGH #5	Niobrara	Natrona Co., WY			80.0%	100%	Producing	N/A	3			20	3

Spring 2015 Update: McAlpin 6, McAlpin 10 Fishtooth 156 and 179 have all been reactivated and while produce water are capable of producing 2-3 BOPD each. Full production has been held back due to limited water draw off capacities.



## Leases and Active Wells Details

#### Monarch-Warneke Lease (WYW 156167) – 120 Acres

Though purchased at auction two years ago, this lease was only recently released by the Bureau of Land Management ("BLM") due to it being delayed as the result of a blanket environmental lawsuit against the Federal government that was just recently resolved. The lease consists of 120 acres and has one well on it drilled in 1918.



Active Well Name: Monarch-Warneke #5

Producing Formation: Niobrara

Current Production: 10 BOPD

This well is a vertical Niobrara well that is cased with an open-hole completion. It has consistently produced 20 BOPD. It is scheduled for paraffin treatment to help increase production. CGrowth anticipates an increased production to the 30 BOPD range once the treatment has been completed.

#### L & J Lease (WYW84249) - 241.32 Acres

In addition to one producing well, this lease also contains about 120 acres of potential 2<sup>nd</sup> Wall Creek vertical well locations that are outlined later in this package.



Active Well Name: Street Federal #1

Producing Formation: 2<sup>nd</sup> Wall Creek

Current Production: 15 BOPD

This well has consistently producing 5 BOPD and was the first well treated with a paraffin treatment. After the treatment, the well was shut in for one week and at start-up it produced at a rate of 18 BOPD. The well has stabilized at the 15 BOPD range and should remain producing at that level with continued semi-annual treatments for paraffin.



#### Bison Lease (WYW109677X) - 800 Acres

This lease contains 2<sup>nd</sup> Wall Creek formation wells, at an average depth of 2700'. These wells have had a somewhat unsuccessful water-flood enhanced oil recovery program. When first drilled these wells produced without significant water. Currently, there is approximately a ten to fifty percent (10 to 50%) oil cut. There are three producing wells, four that are shut-in awaiting the completion of new flow lines before being put back into production, and two wells that are essentially watered out. One of the watered out wells will be used as a water injection well and the other plugged and abandoned.



#### Active Wells: WSC Unit 2-8AX, WSC Unit 2-2, WSC Unit 4-3

Producing Formation: 2<sup>nd</sup> Wall Creek

Current Production: 21 BOPD

Given the current pumping schedule, the three producing wells within this lease produce between one and fifteen BOPD and are collectively doing about 21 BOPD. With the installation of a water injection well, these wells could be pumped continuously and production would increase collectively by about 15 BOPD.

#### Ronnie Robb Leases (WYW31808 and WYW86091) - 664.42 Acres

These two leases contain two Niobrara wells and approximately twenty-nine Fishtooth wells, however, only one Niobrara well and one Fishtooth well are currently producing. The Fishtooth was the subject of a water flood enhanced oil recovery program in the 1950s. The wells produce significant water as a result with an approximate ten percent (10%) oil cut.



#### Active Well Name: **Debord**

Producing Formation: Fishtooth

Current Production: 1 to 5 BOPD

The Debord well was recently equipped and brought back on line to continue to hold the lease by production and to explore bring other wells back on line. It is being run by a portable generator currently pending the running of electrical service from the nearby Federal 182H well. It is producing 1 to 5 BOPD at a twenty (20%) to forty percent (40%) oil cut.





Active Well Name: Federal 182H

Producing Formation: Niobrara

Current Production: 5 BOPD

This well was drilled by CGrowth in November of 2008. It is a horizontal well that was drilled underbalanced with a chemically inhibited air-water mist to preserve the shale which breaks down in the presence of water. The well was permitted for a 2,000 horizontal leg. Multiple fractures were encountered while drilling to a horizontal length of 750 feet. Approximately 500 BO free-flowed to the surface in a six-hour period during drilling along with copious amounts of gas. The well log is available for review at the CGrowth offices. The drilling supervisor feared losing control of the well so he recommended the well only be drilled to that distance. Unfortunately, low bottom-hole pressure has resulted in the well only producing in the 5 BOPD range. There are options to improve the production of this well. For example, the perforated liner could be pulled from this well and the horizontal leg recompleted to the 2000 foot distance. This may be uneconomical due to the low bottom-hole pressures. However, the horizontal leg can be logged to define the fracture systems allowing for the use of zone fracs or perforations in the fractured areas. CGrowth may treat this well with paraffin treatment solution to resolve any paraffin issues that may be restricting the flow of oil from the micro-fracture systems.

#### Topper Lease (WYW036782) - 120 Acres

This lease block contains two vertical Niobrara wells. Typically, there is little to no water associated with the oil produced from the Niobrara formation.



Active Wells: Leona, Federal C

Producing Formation: Niobrara

Current Production: \_\_\_\_ BOPD

CGrowth is in the process of completing the workovers of both the Leona and Federal C wells. In addition to the workovers, paraffin treatments may also be performed prior to bringing the wells back on line. Collectively, the two wells are projected to produce about 25 BOPD once the workovers are completed.



#### Hot Springs (WYW-148949) - 120 Acres

SPRING 2015 UPDATE: THIS LEASE IS NO LONGER HELD BY CGRA AND WAS REVERTED BACK TO THE BLM in 2014 – it was discovered there was casing damage of the Orphan Annie Well and it was plugged. At the time this was the last well that was holding the lease. It would be a straight forward process to re-nominate the lease and re-acquire through the federal auctions and remains in this presentation as an option. This lease is highlighted in purple on the map Figure 1 of this presentation.

There are three wells on this lease. One is currently producing with the other two requiring evaluation prior to final plugging and abandoning of them. It is possible that the  $CO_2$  injection being done in the adjacent Salt Creek field, owned and operated by Anadarko, is providing some increased pressurization and drive to these wells. The Annie's Baby 2 well needs to be evaluated as it appears to be watered out, and the Rowe 11 well, which has already been plugged about 30 feet below the surface, needs the casing to be cut off and the plug and abandonment completed.



Active Well Name: Orphan Annie 1

Producing Formation: Wall Creek

Current Production: 5 BOPD

This well was shut-in over the winter as it is not yet winterized. It was averaging 5 BOPD of production prior to being shut-in. CGrowth plans to do a paraffin treatment along with a complete winterization. Given the length of time since it was last treated for paraffin and its historical production, CGrowth expects this well to produce approximately 12 BOPD after treatment.

#### **Plug and Abandonment Liabilities**

CGrowth is current assessing approximately five (5) of their non-producing wells to determine if any are economical to rework for production or to use as water injection wells. If not, these wells will be plugged and abandoned ("P&A"). CGrowth estimates it will cost ~\$10,000/well to P&A.



## **Redevelopment Opportunities**

Identified within the specific CGrowth leases listed below are immediate redevelopment opportunities and associated costs that can be implemented by the Company to increase and drive production:

#### Bison Lease (WYW109677X) - 800 Acres

The four shut-in wells located within this lease need new flow lines before they can be put back into production. Trenching and installation of new flow lines are estimated to cost \$30,000 and once on line these four wells are expected to produce 40 BOPD collectively.

In addition, a treatment for paraffin along with the installation of a water injection well, estimated at \$60,000, will then allow all 7 wells within this lease to be pumped continuously and production should collectively increase by an additional 30 to 40 BOPD.

#### Ronnie Robb Leases (WYW31808 and WYW86091) - 664.42 Acres

One of the watered-out Fishtooth wells within this lease needs to be converted to a water injection well to service the active Debord well and the other seven Fishtooth wells that can be brought back on line. It is estimated that it will cost \$45,000 to complete the water injection well. The evaporation ponds, which is the current method used for water disposal, can only take a limited amount of water, especially in the winter, so the wells cannot be run 24/7 currently.

There are seven shut-in wells that need to be assessed to determine the oil/water contact point. Perforations that are located in the water zone should be plugged and the areas that are still in the oil zone can be re-perforated. It is expected that the seven wells will produce, collectively, 25 to 35 BOPD. The remaining wells within the lease will need to be assessed to determine if the produce or should be plugged and abandoned.

Lease Name &		Pay Zone		Revitilization	Current	Estimated
Number	Number PDP		Development Work to be Performed	Budget	Production	BOPD
			Properly frac the well	\$125,000		
Ronnie Robb - WYW86091	Federal 182H	Niobrara	Paraffin Treatment	\$5,000	3 to 5	75
			Work over well . Pull string, tubing, slotted liner, swab, exchange or rework pump	\$25,000	5 10 5	75
				\$155,000		75
HBP FED WYW -		Vertical	Pull well, frac or drill short-radius horizontal legs, paraffin		_	25
112401	OGH #1	Niobrara	treat, winterize and return to production.	\$50,000	5	25
Tract 4 North Finn		Vertical	Pull well, frac or drill short-radius horizontal legs, paraffin		2	20
Surface to Niobrara	OGH #5	Niobrara	treat, winterize and return to production.	\$50,000	3	20
			Total	\$255,000	11	120

Thorough workovers of the current wells producing needs to also be performed and a consistent paraffin treatment program put into place in addition to improving access and winterizing select wells to ensure year round production and sales.

CGROWTH CAPITAL

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#### **Drilling and Acquisition Opportunities**

The following are summaries of drilling opportunities researched and examined by CGrowth that can be completed utilizing CGrowth's current leasehold acreage and through additional acquisitions detailed below:

#### Acquisition of North Finn Leases and Wells and Drill Additional Wells

The North Finn leases consist of almost 1,000 contiguous acres of oil and gas leases as shown in Figure 1. 158 of the 1,000 acres consist of the Niobrara rights on the leases held by CGrowth. The remaining acres have rights to all depths. The possible pay zones are the Niobrara, Fishtooth, Wall Creek, Mowry, Muddy and Tensleep formations.

The acreage provides for 23 potential drilling locations based on 80 acre spacing with 18 of those locations having either known fractures or probable fractures in the Niobrara. The fractures have a general east-west orientation so that laterals in the Niobrara of Steele Formation should be drilled in a north or south direction. Section 16 (state lease) has the axis of the Bothwell Syncline pass through in its eastern half with a north-south orientation. A second set of fractures should be developed in this area which would have a north-south orientation.

These leases have two producing vertical Niobrara wells doing a total of 5 BOPD. It has two vertical bore holes to the Niobrara that are permitted for one thousand foot horizontal wells. North Finn commenced drilling these bore holes but never completed them. While the leases are owned by CGRA the WYOGCC has disallowed Fossil Energy to become the operator on the two incomplete wells until such time as increased idle well bonds are put in place. The expected production, including the two existing producing wells is 85 BOPD. Below is a summary the two North Finn Leases and four wells:

#### HBP FED WYW - 112401 - 816.81 Acres

#### Old Glory Hole #1 (OGH #1) Well

The Old Glory Hole #1 (OGH #1) vertical well is a producing well located on the North Finn lease. The initial production rate was 80 barrels per hour. The formation was water damaged by the faulty cementing of the casing which allowed water from the Fishtooth located above the Niobrara to migrate into the formation. Despite the formation damage the well still produces an average of two barrels a day. The potential exists to drill an adjacent horizontal well to encounter a section of the fracture that was undamaged by the Fishtooth formation water.



# FEE – 29T40N-R79W Lease – 158.13 Acres from the surface to the bottom of the Niobrara

#### Old Glory Hole #5 (OGH #5) Well

This lease contains the Old Glory Hole (OGH) #5 well. It is a vertical Niobrara well and does about 3 BOPD.

#### OLG #4 & 6 Wells

There are two vertical bore holes on this lease which are permitted as one thousand foot horizontal wells. The wells have been drilled and cased to 1,735 feet with 5  $\frac{1}{2}$ " casing. The estimated cost to complete each of these wells is two hundred fifty thousand dollars (\$250,000).

#### Acquisition of the Fowler Leases

The Fowler leases consist of two parcels of 40 and 560 acres. These leases can be acquired for ten thousand dollars (\$10,000) and a twenty percent (20%) carried working interest in the first well drilled. The proposed development plans detailed below for drilling vertical Wall Creek wells and horizontal Mowry wells assume acquisition of the Fowler leases.

#### Drill Vertical 2<sup>nd</sup> Wall Creek Wells

Significant oil reserve potential exists for at least 120 undeveloped acres owned by CGrowth within the 2<sup>nd</sup> Wall Creek formation as detailed in the David Law Geology Field Report for Salt Creek West dated April 27, 2010. The report lists locations to drill sixteen vertical Wall Creek wells as seen in Exhibit A. The wells are to be drilled in three different groups of six, six and four wells. The wells are spaced to address the best geological locations first and then step out from there depending upon results. Additional geophysical testing (seismic lines, Tellurics, geochemical) will need to be conducted prior to commencing drilling activities.

The current estimated cost to drill and complete each well is three hundred fifty thousand dollars (\$350,000). Given historical production in this area, initial production is expected to be 60 to 80 BOPD, rapidly settling into about 40 BOPD. Total recovery is expected to be in excess of 1,040,000 BO over the fifty-year life of these wells.

#### Acquisition of Bissell Rights and Drilling Horizontal Niobrara Wells

Bissell Oil currently holds surface to the bottom of the Niobrara rights for certain acreage in CGrowth's Mystique/Bison lease block. These rights can be purchased from Bissell for forty





thousand dollars (\$40,000). This opportunity involves the drilling of up to 13 one thousand foot long horizontal Niobrara wells in the Ronnie Robb, Bison, Topper and State 07-00288 leases using "side-winder" drilling technology. Since the "side-winder" bore hole is only 4.5 inches in diameter the technology affords a very tight turning radius when building the curve and can be drilled and completed for approximately two hundred fifty thousand dollars (\$250,000) per well. This is less than a third of the price of a conventional horizontal Niobrara well at these depths. Given the low bottom-hole pressures, the large initial production experienced in deeper areas of the Niobrara is not anticipated for these wells which are extremely long lived and for these drilling and completion costs, are highly economical.

CGrowth's Monarch-Warneke #5 well has been producing since 1918. When a fracture is encountered drilling a horizontal Niobrara well, there is generally a large flush of oil produced which quickly settles down to a level that produces with very little decline over many years. The production and reserve economics for these Niobrara wells are estimated at 20 BOPD in production with a total recovery of 37,612 BO per well. A summary of all Permitted and Proposed Niobrara Wells within the West Salt Creek Field area can be found in Exhibit B.

#### **Drilling Mowry Shale Wells**

The Mowry formation represents a high potential for significant oil production as detailed in the Mowry assessment excerpt in Exhibit C. An initial well can be drilled horizontally across the known fracture systems. Refer to the Mowry Shale locations and drill site map in Exhibit D as proposed in the David Law Geology Field Report for Salt Creek West dated April 27, 2010. In this area, the Mowry formation is at a depth of 3,118 to 3,354 feet. There are very few penetrations into the Mowry formation in this section of Wyoming though North Finn recently did a core test and determined the Total Organic Content ("TOC") of the Mowry to be significantly higher than the Niobrara shale which has produced prolifically in this area. The Mowry Shale is also much more thermally mature than the Niobrara. Both tests are indicators that the formation should be a significant producer.

Given a successful initial well, wells could then be drilled on the Fowler, North Finn State lease, Hot Springs and Bison leases. There are many additional potential drilling locations should these perform as expected. The Mowry shale is believed to be the source rock for the oil that has been recovered from the Wall Creek sands. In the case of the adjacent Salt Creek field, this is in excess of 400 MMBBL of oil.

The current estimated cost to drill and complete each well is one and a half million dollars (\$1,500,000). Initial production from these wells is estimated to be in the 200 BOPD range. Total recovery could be expected to be in excess of 2,250,000 BO over the fifty year life of these Mowry wells.



# **EXHIBITS**

#### Exhibit A – 2<sup>nd</sup> Wall Creek Formation Locations and Proposed Drill Sites

FOSSIL ENERGY West Salt Creek Field

#### Proposed 2nd Wall Creek Sandstone Drillsites

I reviewed the existing data at West Salt Creek Field and have broken up proposed locations into three categories: Phase I, Phase II and Phase III. Phase one would be the drilling of one well per forty acres that is prospective in the southern portion of West Salt Crek Field so that geologic and production data can be obtained with minimal risk. Phase II would be infill drilling of proven locations and Phase III would occur only if geologic and production data support the thesis that these areas are capable of commercial production. The locations may have to be moved slightly to accommodate surface topography.

Section 32, T40N-R79W, Natrona County, WY

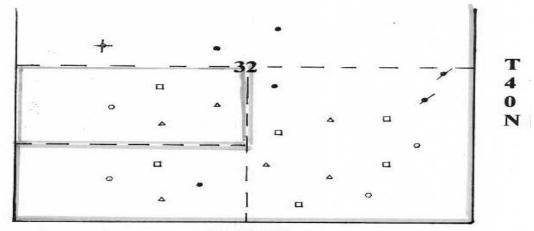
Phase 1 (6 wells) 2250 FEL & 1600' FSL 1050' FEL & 1800' FSL 1660' FWL & 1000' FSL 1660' FWL & 2300' FSL 1800' FEL & 330' FSL 900' FEL & 900' FSL

Phase II (6 wells) 1660' FEL & 1900' FSL 2320' FWL & 1980' FSL 1680' FWL & 1680' FSL 1700' FWL & 400' FSL 2400' FEL & 990' FSL 1650' FEL & 750' FSL

Phase III (4 wells possible) 1350' FSL & 600' FEL 1200' FEL & 500' FSL 1100' FWL & 1980' FSL 1100' FWL & 660' FSL

Respectfully, DCK

David Law Consulting geologist (307) 265-1512



#### **R 79 W**

- 2nd Wall Creek Oil Well
- 2nd Wall Creek Test, Oil Show
- Phase #1 Locations
- △ Phase #2 Locations
- O Phase #3 Locations



#### **Exhibit B – Permitted and Proposed Horizontal Niobrara Wells**

FOSSIL ENERGY

West Salt Creek Field Area T40N-R79W Natrona County, WY

Permitted Horizontal Niobrara Wells

NORTH FINN

Section 16: State 2-16H, 551' FNL & 2041' FEL to 840' FNL & 480' FEL Section 16: State #15-16, 840' FSL & 1660' FEL to 480' FSL & 480' FEL Section 16: State #11-16, 1683' FSL & 2131' FWL to 480' FSL & 2131' FWL 5.5" casing set at 2050' & cemented, drilled to 2272', BHL 1644' FSL & 2060' FWL; to much oil for oil package to clean hole Section 29: Old Glory Hole #6H, spud & set 5.5" casing, 760' FSL & 655' FEL to 2100' FSL & 655' FEL

Section 32: Old Glory Hole #4H, spud & set 5.5" casing, 833' FNL & 2037' FEL to 2160' FNL & 2037' FEL

#### <u>Proposed Horizontal Niobrara Locations</u> T40N - R79W

Section 16: 1500' FSL & 2100' FEL to 1660' FNL & 1780' FEL

Section 29: 330' FNL & 2330' FEL to 2400' FNL & 1700' FEL Section 29: 1980' FNL & 660' FWL to 1320' FSL & 660' FWL

Section 30: 900' FNL & 660' FEL to 2600' FNL & 660' FEL

Section 31

Well #2-31H: 1190' FNL & 550' FEL to 550' FEL & 2600' FNL Well #3-31H: 1000' FSL & 1980' FEL to 2600' FSL & 1980' FEL Well #4-31H: 1750' FSL & 600' FEL to 100' FSL & 600' FEL

Section 32: 1300' FSL & 660' FEL to section 5, T39N-R79W 990' FNL & 660' FEL

Section 33: 2330' FSL & 660' FEL to 330' FSL & 660' FEL

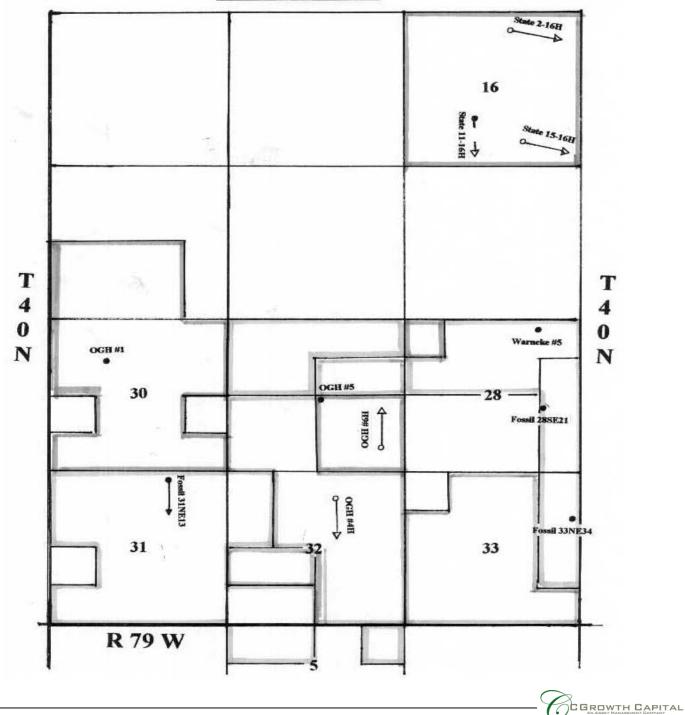
Respectfully, Oitt.

David Law, consulting geologist 2222 West 43rd Street Casper, WY 82604 (307) 265-1512

#### FOSSIL ENERGY

#### West Salt Creek Area T40N - R79W Natrona County, WY

Producing Niobrara Wells & Permitted Horizontal Niobrara Tests

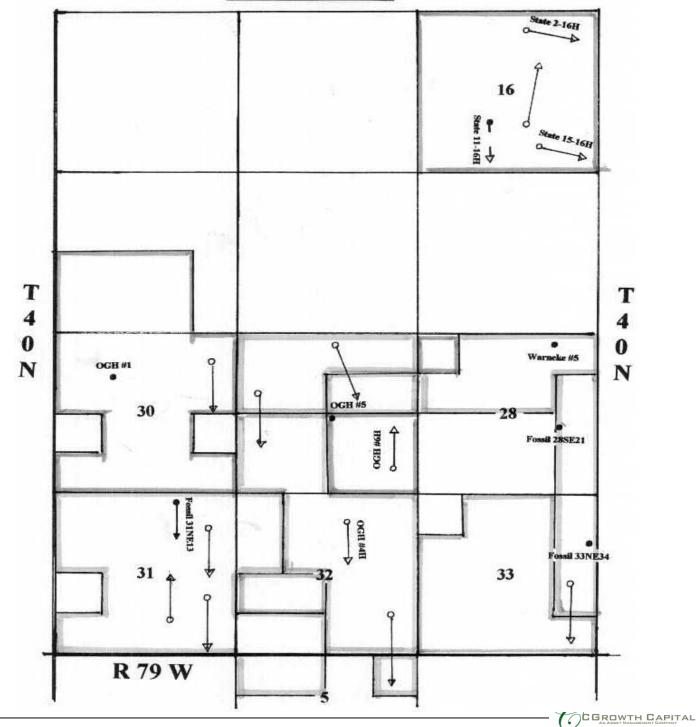


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## **FOSSIL ENERGY**

West Salt Creek Area T40N - R79W Natrona County, WY

**Horizontal Niobrara Tests** 



26

## Exhibit C – Mowry Shale Assessment Excerpts

Excerpts taken from "Geologic Assessment of Undiscovered Oil and Gas in the Powder River Basin Province, Wyoming and Montana" By Lawrence O. Anna, U.S. Geological Survey, U.S. Department of the Interior

"Mean estimate of undiscovered resources for the Mowry AU is 198 MMBO, 198 BCFG, and 11.9 MMBNGL (table 1)."

"The Mowry Shale is considered the main hydrocarbon source for Lower Cretaceous reservoirs in the PRB (Powder River Basin), although minor quantities of hydrocarbons may be generated from the Lower Cretaceous Skull Creek Shale and Fuson Shale (fig. 15)."

"The Mowry was deposited as dark brownish gray siliceous shale during maximum marine transgression that ranged from the end of the Lower Cretaceous Albian Stage to the lower part of the Upper Cretaceous Cenomanian Stage (Merewether, 1996). The shale is organic rich because of the preservation of organic material due to anoxic conditions and the lack of detrital sediment that would have inhibited organic input (Nixon, 1973; Byers and Larson, 1979). In the TPS (Total Petroleum System), Mowry Shale thicknesses average about 250 ft and range from about 100 ft to more than 400 ft (Momper and Williams, 1984, their fig. 4)."

"The Mowry Shale has a TOC (Total Organic Content) of 2 to more than 3 weight percent Type II and Type III kerogen (Nixon, 1973; Schrayer and Zarrella, 1963). Schrayer and Zarrella (1966) published maps of central Wyoming that showed Mowry TOC (Total Organic Content) values increasing from west to east, with the highest values near the PRB west margin. Vertical profiles of Mowry TOC values, near Douglas, Wyoming (fig. 17), show values as much as 4 weight percent near the middle of the formation. Heacock and Hood (1970) showed that the Mowry has one of the highest average TOC values for Cretaceous shales in the PRB. Momper and Williams (1984) reported that within the basin the Mowry Shale expelled about 11.9 BBO (billion barrels of oil) from an average of 3 weight percent TOC, which should be considered a maximum for the total fluid expulsion. That volume converts to an oil-generating capability of 105 barrels/acre-ft, with an expulsion efficiency of 6 to 8 percent. Cumulative known oil production from all reservoirs in the Mowry TPS (but not including basin margin Lower Cretaceous reservoirs) as of 2005 is about 630 MMBO (NRG associates, 2006), or 5 percent of the 11.9 billion barrels of expelled oil estimated by Momper and Williams (1984), for the Mowry source rocks."

# C

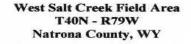
#### **Exhibit D - Mowry Shale Locations and Proposed Drill Sites**

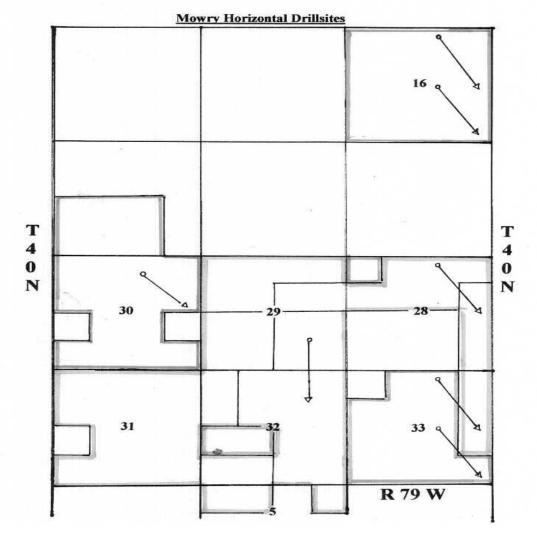
#### FOSSIL ENERGY

West Salt Creek Field Area T40N - R79W Natrona County, WY

#### Horizontal Mowry Shale Locations

Section 16: 330' FNL & 1980' FEL to 2620' FNL & 460' FEL Section 16: 2620' FSL & 1980' FEL to 460' FSL & 460' FEL Section 28: 330' FNL & 1980' FEL to 2620' FNL & 460' FEL Section 29: 1320' FEL & 1320' FSL to section 32: 1320' FNL & 1320' FEL Section 30: 800' FNL & 1980' FEL to 2330' FNL & 330' FEL Section 33: 330' FNL & 1980' FWL to 2620' FNL & 460' FEL Section 33: 2620' FSL & 1980' FEL to 460' FSL & 460' FEL





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				POTE	NTIAL DRILLING LOCATION	NS				-	
West Salt Creek Leases	Pay Zone	Type of Well	Well Spacing	# of Wells	COMMENTS	Per Well Cost	BOPD Per Well	Total Well Cost	TOTAL BOPD	EUR Per Well	EUR
Leases	Fishtooth	Vertical	40 acres	4	700 to 900 feet deep	\$100.000	10	\$400.000	40	6,000	24.000
Ronnie Robb (WYW06891 &	Niobrara	Vertical	40 acres	4	1700 to 2100 feet deep	\$230.000	20	\$920,000	80	40,000	160.000
WYW031806)	Niobrara	Horizontal	80 acres	2	1000 foot horizontal legs	\$450,000	40	\$900,000	80	96,000	192,000
	Wall Creek	Vertical	40 acres	1	2700 to 2800 feet deep	\$350,000	20	\$350,000	20	40,000	40,000
	Fishtooth	Vertical	40 acres	2	700 to 900 feet deep	\$100,000	10	\$200,000	20	6,000	12,000
	Niobrara	Vertical	40 acres	4	1700 to 2100 feet deep	\$230,000	20	\$920,000	80	40,000	160,000
Mystique (Bison)	Niobrara	Horizontal	80 a cres	2	1000 foot horizontal legs	\$450,000	40	\$900,000	80	96,000	192,000
(WYW109677X Unit)	Wall Creek	Vertical	20 acres	6	2700 to 2800 feet deep	\$350,000	20	\$2,100,000	120	40,000	240,000
	Mowry Shale	Horizontal	80 a cres	3	3500 TVD - 2000 foot horizontal legs	\$1,500,000	200	\$4,500,000	600	200,000	600,000
Topper - WYW 036782	Niobrara	Vertical	40 acres	1	1700 to 2100 feet deep	\$230,000	20	\$230,000	20	40,000	40,000
	Niobrara	<del>Vertica</del> l	40-acres	2	<del>1700 to 2100 feet dee</del> p	\$230,000	<del>20</del>	<del>\$460,000</del>	40	40,000	80.000
WYW 175940-	Ni obra ra	Horizontal	<del>80 acres</del>	1	<del>1000 foot horizontal le</del> gs	\$450,000	40	\$450,000	40	96,000	<u> </u>
	Wall-Greek	<del>Vertica</del> l	40-acres	1	<del>2700 to 2800 feet dee</del> p	<del>\$350,000</del>	<del>20</del>	\$350,000	<del>20</del>	40,000	
1.8.1.14///14/04240	Niobrara	Vertical	40 acres	2	1700 to 2100 feet deep	\$230,000	20	\$460,000	40	40,000	80,000
L & J - WYW84249	Wall Creek	Vertical	40 acres	3	2700 to 2800 feet deep	\$350,000	20	\$1,050,000	60	40,000	120,000
Hot Springs - WYW 148949	Mowry Shale	Horizontal	80 acres	1	<del>3500 TVD - 2000 foot horizontal le</del> gs	\$1,500,000	200	<del>\$1,500,000</del>	200	-200,000	
Monarch-Warneke WYW	Niobrara	Vertical	40 acres	2	1700 to 2100 feet deep	\$230,000	20	\$460,000	40	40,000	80,000
177866	Wall Creek	Vertical	40 acres	1	2700 to 2800 feet deep	\$350,000	20	\$350,000	20	40,000	40,000
					TOTAL FOR WEST SALT CREEK LEASES			\$15,690,000	1,540		2,276,000
North Finn Lease	Рау	Type of	Well	# of	COMMENTS	Per Well	BOPD Per	Total Well	TOTAL	EUR Per	EUR
Acreage	Zone	Well	Spacing	Wells	CONIVIENTS	Cost	Well	Cost	BOPD	Well	LON
Lease Acquisition					Acquires the 100% WI of 80% NRI						
	Fishtooth	Vertical	40 a cres	3	700 to 900 feet deep	\$100,000	10	\$300,000	30	6,000	18,000
HBP FED WYW - 112401	Niobrara	Vertical	40 a cre s	4	1700 to 2100 feet deep	\$230,000	20	\$920,000	80	40,000	160,000
HBP FED W Y W - 112401	Niobrara	Horizontal	80 a cre s	2	1000 foot horizontal legs	\$450,000	40	\$900,000	80	96,000	192,000
	Wall Creek	Vertical	40 a cre s	1	2700 to 2800 feet deep	\$350,000	20	\$350,000	20	40,000	40,000
WYW 109677X Tract 4 From	Niobrara	Vertical	40 a cre s	1	1700 to 2100 feet deep	\$230,000	20	\$230,000	20	40,000	40,000
the Surface to Niobrara and	Ni obra ra	Horizontal	80 acres	2	OGH #4 & 6 - complete 1000 ft horizontal legs	\$450,000	40	\$900,000	80	96,000	192,000
WYW 14949	Wall Creek	Vertical	40 a cre s	1	2700 to 2800 feet deep	\$350,000	20	\$350,000	20	40,000	40,000
					TOTAL FOR NORTH FINN LEASES			\$ 3,600,000	310		642,000
		TOTALS	BY FORMAT	ION		Per Well Cost	BOPD Per Well	Total Well Cost	TOTAL BOPD	EUR Per Well	EUR
	Fishtooth	Vertical	40 acres	9		\$100.000	10	\$ 900.000	90	6,000	54,000
	Niobrara	Vertical	40 acres	20		\$230.000	20	\$ 4.600.000	400	40,000	800.000
Well Count by Formation	Niobrara	Horizontal	80 acres	9		\$450,000	40	\$ 4,050,000	360	96,000	864,000
	Wall Creek	Vertical	20 acres	14		\$350,000	20	\$ 4,900,000	280	40,000	560.000
	Mowry Shale	Horizontal	80 acres	4		\$1,500,000	200	\$ 6,000,000	800	200,000	800,000
											3,078,000







