

Joshua R. Austin

Petroleum Geologist report for

Lebsack Oil Production, Inc.



COMPANY: Lebsack Oil Production, Inc.

LEASE: Pfeifer-Amyx #2

FIELD: Tanker

LOCATION: 1320' FSL & 330' FWL

SEC: 7 TWSP: 22s RGE: 33w

COUNTY: Finney STATE: Kansas

KB: <u>2918'</u> GL: <u>2905'</u>

API # 15-055-22529-00-00

CONTRACTOR: Sterling Drilling Company (rig #5)

Spud: <u>11/20/2019</u> Comp: <u>11/26/2019</u>

RTD: <u>4855'</u> LTD: <u>4860'</u>

Mud Up: 3485' Type Mud: Chemical was displaced

Samples Saved From: 3600' to RTD.

Drilling Time Kept From: 3600' to RTD.

Samples Examined From: 3600' to RTD.

Geological Supervision From: 3850' to RTD.

Geologist on Well: <u>Josh Austin</u> Surface Casing: 8 5/8" @ 479'

Production Casing: 5 1/2" @ 4851'

Electronic Surveys: Pioneer Energy Services

NOTES

On the basis of the structural position, shows in the samples and after reviewing the electric log it was recommened by all parties involved to run 5 1/2" production casing and further test the zones. No drill stem test were ran.

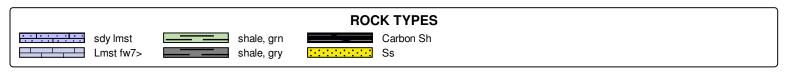
Lebsack Oil Production, Inc. well comparison sheet

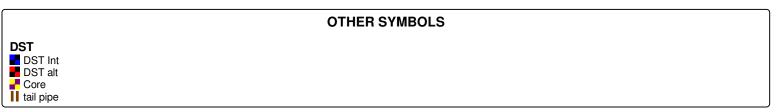
DRILLING WELL COMPA

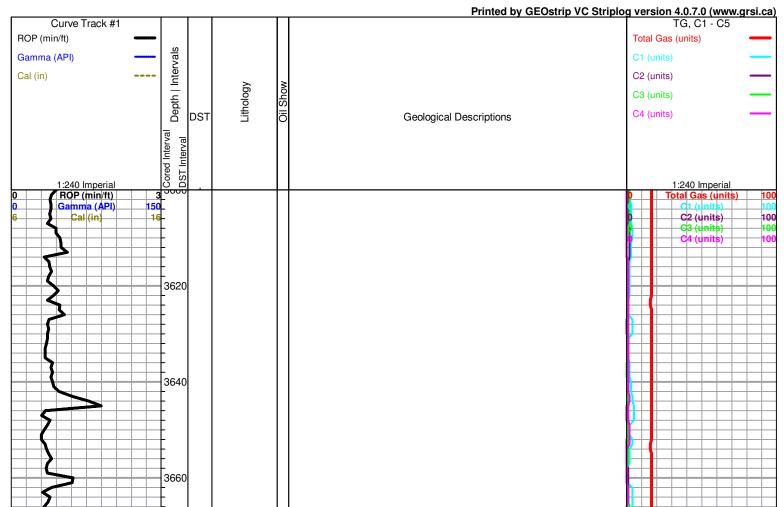
COMPARISON WELL

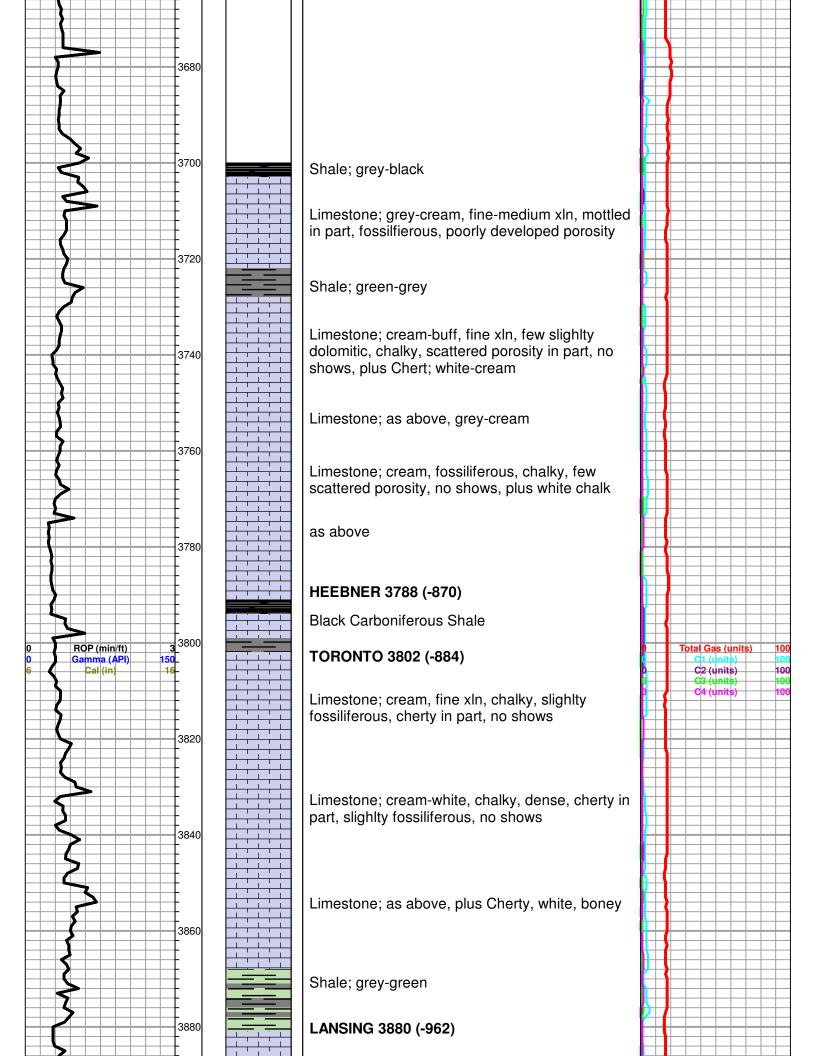
COMPARISON WELL

	Pfeifer Amyx #2				Pfeifer Amyx #1				Garden City #3-12			
		KB			2917	7 KB	Structural Relationship				Struct	ural
	2918								2919 KB		Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	2019	899			2016	901	-2		2014	905	-6	
B/ Anhydrite	2034	884			2034	883	1		2028	891	-7	
Heebner	3788	-870	3792	-874	3792	-875	5	1	3784	-865	-5	-9
Toronto	3802	-884	3808	-890	3805	-888	4	-2	3800	-881	-3	-9
Lansing	3880	-962	3886	-968	3881	-964	2	-4	3875	-956	-6	-12
base porosity	4154	-1236	4154	-1236	4155	-1238	2	2	4149	-1230	-6	-6
Base KC	4306	-1388	4305	-1387	4309	-1392	4	5	4299	-1380	-8	-7
Marmaton	4334	-1416	4332	-1414	4337	-1420	4	6	4325	-1406	-10	-8
Pawnee	4408	-1490	4413	-1495	4414	-1497	7	2	4404	-1485	-5	-10
Ft. Scott	4436	-1518	4443	-1525	4445	-1528	10	3	4438	-1519	1	-6
Cherokee Sh.	4446	-1528	4450	-1532	4450	-1533	5	1	4444	-1525	-3	-7
Morrow Shale	4632	-1714	4636	-1718	4639	-1722	8	4	4630	-1711	-3	-7
Mississippi	4676	-1758	4678	-1760	4691	-1774	16	14	4661	-1742	-16	-18
St. louis C	4759	-1841	4759	-1841	4762	-1845	4	4	4758	-1839	-2	-2
RTD	4855	-1937			4860	-1943			4860	-1941		
LTD	4860	-1942		9	4859	-1942			4860	-1941		

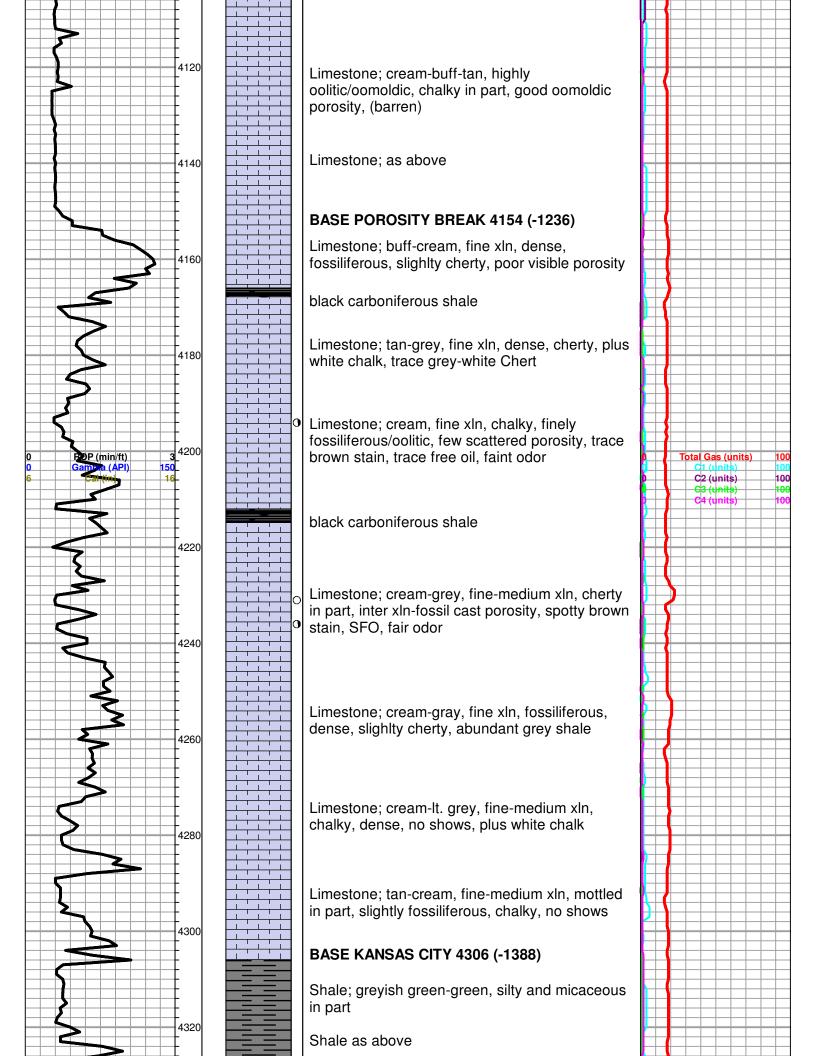


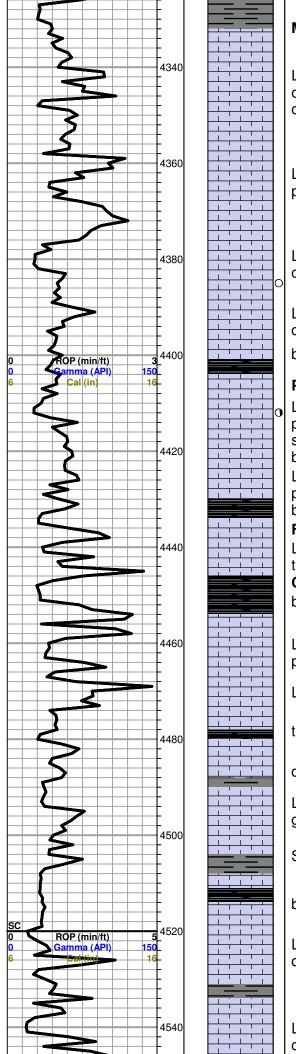






Limestone; white-cream, highly fossiliferous in part, fair fossil cast porosity, no shows, 3900 Limestone; grey-cream, fossiliferous, chalky, few scattered inter xln porosity, no shows, Trace Chert: white-translucent 3920 shale; dark grey Limestone; cream, fine xln, chalky, trace Limestone; tan, dense, cherty, slighlty 3940 fossiliferous Limestone; cream, fine xln, slighlty fossiliferous, white chalk, plus Chert; grey, boney 3960 Limestone; cream-grey, fine xln, fossiliferous, chalky, Chert; white, boney 3980 Limestone; as above Limestone; cream-buff, fine xln, chalky, 4000 ROP (min/ft) Total Gas (units) fossiliferous, sub oomoldic, oomoldic-fossil cast Cal (in) type porosity, no shows C2 (units) C3 (units) 4020 Limestone; cream-buff, fine xln, chalky, dense, slighlty fossiliferous, no shows black carboniferous shale 4040 Limestone; cream-white, fine xln, dense, chalky, poor porosity, no shows 4060 black carboniferous shale Limestone; cream, highly oolitic, fair oolicastic 4080 porosity in part, no shows Limestone; cream-tan-buff, oolitic-fossiliferous in 4100 part, scattered porosity, chalky, no shows, plus gray Chert





MARMATON 4334 (-1416)

Limestone; cream, fossiliferous/ oolitic, inter xlnoolicastic porosity, brown spotty stain, trace free oil, very faint odor

Limestone; cream-tan, fine xln, fossiliferous in part, few scattered porosity, no shows

Limestone; grey, fine xln, dense, trace sparry calcite, dark brown stain, trace free oil, no odor

Limestone; cream-buff, fine xln, chalky, slighlty dolomitic, no shows

black carboniferous shale

PAWNEE 4408 (-1490)

Limestone; cream, fine xln, finely oolitic, chalky in part, inter xln type porosity, spotty brown stain, spotty trace free oil, faint odor when sample broke

Limestone; cream-grey, fine xln, chalky, dense, poorly developed porosity, no shows black carboniferous shale

FT. SCOTT 4436 (-1518)

Limestone; cream, fine xln, inter xln type porosity, trace brown stain, question bale trace free oil

CHEROKEE 4446 (-1528)

black carboniferous shale

Limestone; cream-buff, finely oolitic, chalky in part, few scattered oolitic type porosity, no shows

Limestone as above

trace black carboniferous shale

dark grey-grey shale

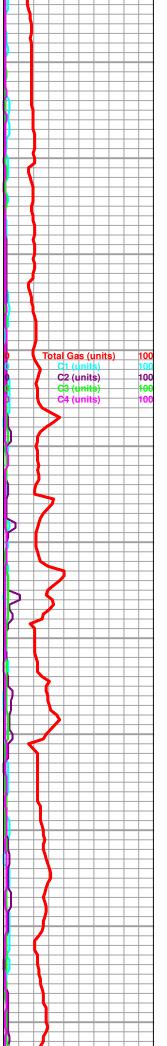
Limestone; cream-grey, fine-medium xln, few ganular pieces, fossiliferous in part

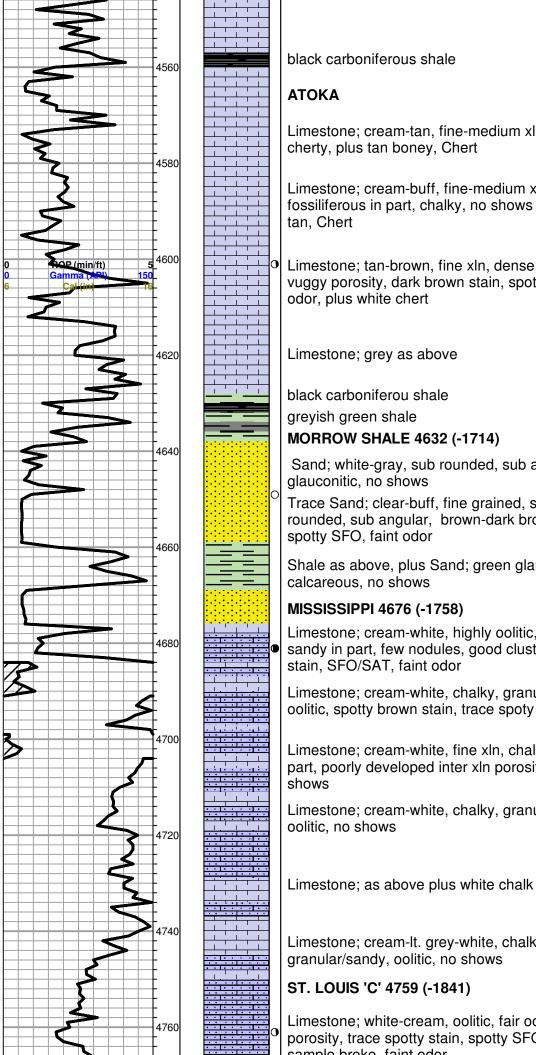
Shale; grey-green

black carboniferou shale

Limestone; cream, fine xln, sparry calcite in part, dense, slighlty cherty

Limestone; tan-grey-cream, fine xln, dense, cherty, poor visible porosity, no shows





Total Gas (units)

C2 (units)

C3 (units)

Limestone; cream-tan, fine-medium xln, dense,

Limestone; cream-buff, fine-medium xln, fossiliferous in part, chalky, no shows plus gray-

Limestone; tan-brown, fine xln, dense, inter xlnvuggy porosity, dark brown stain, spotty SFO, no

Sand; white-gray, sub rounded, sub angular,

Trace Sand; clear-buff, fine grained, sub rounded, sub angular, brown-dark brown stain,

Shale as above, plus Sand; green glauconitic,

Limestone; cream-white, highly oolitic, chalky, sandy in part, few nodules, good clusters, brown

Limestone; cream-white, chalky, granular/sandy, oolitic, spotty brown stain, trace spoty free oil

Limestone; cream-white, fine xln, chalky, oolitic in part, poorly developed inter xln porosity, no

Limestone; cream-white, chalky, granular/sandy,

Limestone; cream-lt. grey-white, chalky,

Limestone; white-cream, oolitic, fair oolicastic porosity, trace spotty stain, spotty SFO when

