



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:
 Yes No

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
-
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

<p>Spud Date or Recompletion Date</p>	<p>Date Reached TD</p>	<p>Completion Date or Recompletion Date</p>
---	------------------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1183319

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Oolite Energy Corp
Well Name	Fox 2-19
Doc ID	1183319

All Electric Logs Run

Array Compensated True Resistivity Log
Bore Hole Compensated Sonic Array Log
Dual Spaced Neutron Spectral Density Log
Microlog
Radial Cement Bond Log

Form	ACO1 - Well Completion
Operator	Oolite Energy Corp
Well Name	Fox 2-19
Doc ID	1183319

Tops

Name	Top	Datum
Herrington	2728	
Base Heebner	4484	
Toronto	4500	
Lansing	4624	
Marmaton	5273	
Cherokee	5450	
Morrow	5770	
Chester	5840	
St. Genevieve	6127	
St. Louis	6220	

Summary of Changes

Lease Name and Number: Fox 2-19

API/Permit #: 15-119-21338-00-00

Doc ID: 1183319

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	08/07/2013	01/21/2014
Completion Or Recompletion Date	8/1/2013	7/23/2013
Date of First or Resumed Production or SWD or Enhr Disposition Of Gas - Sold	No	7/23/2013 Yes
Fracturing Question 1		No
Method Of Completion - Perf	No	Yes
Producing Method Pumping	No	Yes
Production - Barrels Oil		7
Production - Barrels of Water		0
Production - MCF Gas		8

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Save Link	../../kcc/detail/operatorEditDetail.cfm?docID=1154311	../../kcc/detail/operatorEditDetail.cfm?docID=1183319
Tubing Record - Set At		5909
Tubing Size		2.375



CONFIDENTIAL

WELL COMPLETION FORM

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	--	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Oolite Energy Corp
Well Name	Fox 2-19
Doc ID	1154311

All Electric Logs Run

Array Compensated True Resistivity Log
Bore Hole Compensated Sonic Array Log
Dual Spaced Neutron Spectral Density Log
Microlog
Radial Cement Bond Log

Form	ACO1 - Well Completion
Operator	Oolite Energy Corp
Well Name	Fox 2-19
Doc ID	1154311

Tops

Name	Top	Datum
Herrington	2728	
Base Heebner	4484	
Toronto	4500	
Lansing	4624	
Marmaton	5273	
Cherokee	5450	
Morrow	5770	
Chester	5840	
St. Genevieve	6127	
St. Louis	6220	

Form	ACO1 - Well Completion
Operator	Oolite Energy Corp
Well Name	Fox 2-19
Doc ID	1154311

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
3	5955-5958 & 5962-5964	567 gals 15% acid	5955-5958 & 5962-5964
	CIBP @ 5945		
3	5868-5881	4165 gals 15% NE FE	5868-5881

Customer <i>Colite Energy</i>	Lease No.	Date <i>5-10-13</i>
Lease <i>FCX</i>	Well # <i>2-19</i>	Service Receipt
Casing <i>4 1/2 10.6#</i>	Depth <i>6559</i>	County <i>Meade</i> State <i>KS</i>
Job Type <i>production</i>	Formation	Legal Description <i>19-33-29</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>4 1/2 10.6#</i>	Tubing Size	Shots/Ft		Lead 385 SKS @ 14.8 PPG A12 Cement 5% W-60, 10% Salt, 6% C-15, 1/4# Detומר, 5# 6.150.ite
Depth <i>6559</i>	Depth <i>55' 16"</i>	From	To	
Volume <i>104/615</i>	Volume	From	To	
Max Press <i>2000</i>	Max Press	From	To	
Well Connection <i>1 1/2</i>	Annulus Vol.	From	To	
Plug Depth <i>6559</i>	Packer Depth	From	To	Tail in

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1100</i>					<i>On Loc - Rig up</i>
<i>1400</i>					<i>Safety Meeting</i>
<i>1600</i>			<i>1.5</i>	<i>1.5</i>	<i>Pressure Test</i>
<i>1615</i>	<i>330</i>		<i>5</i>	<i>4</i>	<i>Pump 5 bbls of Water Ahead</i>
<i>1620</i>	<i>325</i>		<i>12</i>	<i>4</i>	<i>12 bbl of Super Flush</i>
<i>1625</i>	<i>300</i>		<i>5</i>	<i>4</i>	<i>5 bbl of water behind</i>
<i>1630</i>	<i>250</i>		<i>90</i>	<i>5</i>	<i>Pump 335 SKS of Cement @ 14.8</i>
<i>1655</i>					<i>Wash up Drop Plug</i>
<i>1700</i>	<i>250</i>		<i>94</i>	<i>6.5</i>	<i>Pump displacement with 2% KCl</i>
<i>1725</i>	<i>210</i>		<i>10</i>	<i>2.0</i>	<i>Slow down</i>
<i>1730</i>	<i>1100</i>		<i>1</i>	<i>1</i>	<i>Land Plus Float Valve</i>
					<i>Plug Seat & Pressure 1100</i>
					<i>Job Completed</i>
					<i>Thanks for Using Basic Energy Services</i>

Service Units	<i>7-110</i>	<i>35750198/12</i>	<i>3046321547</i>		
Driver Names	<i>Ruben</i>	<i>Samuel Lopez</i>	<i>Vickie</i>		

Clint Andrews
 Customer Representative

Jerry Bennett
 Station Manager

Ruben Martinez
 Cementer

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

August 06, 2013

David E. Rice
Oolite Energy Corp
PO BOX 9398
AMARILLO, TX 79105

Re: ACO1
API 15-119-21338-00-00
Fox 2-19
NW/4 Sec.19-33S-29W
Meade County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
David E. Rice

dm. yel. to yel. fluor; No cut
scattered trs. poor
micro-porosity

5100

Lms. lt. to med gray w/abn. tan
crypto. xln; trs. sub-chk,
prachstn. to sub-lithographic
tan w/v. dub. yel. fluor; No cut; No Vis. Por

Lms. med. to drk. gray to virtually
shy. grading. to highly calc. Shy;
crypto. xln; sub-lithographic
prachstn; No fluor; No cut; No Vis. Por

Sh. v. drk. gray to black-carb.
Lms. H. to med. gray; tanish
crypto. to v. fine xln; prachstn
to sub-lithographic trs; w
dub. yel. fluor; No cut; No Vis. Por

Lms. abn. whit to tan; xln; crypto
to v. fine xln; v. to entirely calcitic / ad
sh. to v. opt. calc. matrix; sub-sucro
prachstn; dub. H. to H. yel. fluor; No cut;
No cut; abn. por. to fine trs. to sh. trs
excel. calcitic por. V. Quest. tan.
5174-5209 Lms. trs. w/interbeds Sh
Lms. H. gray; grayish; tan to tan; crypto
to v. fine xln; trs. sub-chk, sub-sucro
prachstn. trs. sub-lithographic
dub. yel. fluor; No cut; No Vis. Por
② Widely scattered Shs. med. to
v. drk. gray - calc. to v. brk. gray
to black-carb.

5200

Lms. hvy. trs. to abn. whit. to tan.
chk & tan; crypto. to v. fine xln; very
to entirely calcitic; por. finely tan. calcitic
matrix trs. sub-chk, sub-sucro to
sucro. opacities; dub. yel. to yel. fluor;
No cut; abn. por. to fine trs. to sh. trs
calcitic por.; v. Quest. tan
w/ trs. chert gray; opaque

Lms. H. to med. gray - sh. to shaly
Shy; crypto. xln; prachstn. to
sub-lithographic; No fluor
No cut; No Vis. Porosity

Sh med. to drk. gray; very to
extremely calc

5300

Lms. grayish-tan to tan; crypto. to
v. fine xln; trs. sub-chk, sub-sucro
prachstn; phantoms calcitic to trs
ob. fig. dub. yel. fluor; No cut
No Vis. Por

Kansas City "A"
4728-2748

WOB 35000
RPM 75-80
SPM 100
PP 1200

MARMA 201
5304-2606

Interbedded Lmsts & Shales
Similar 5492-5528

w/a few interbeds Shs
v. drk. gray to black carb.

180 u BG
G

170 u BG
C

5600

Interbedded Lmsts and Shales
① Lms. H. gray to tan; crypto. to wavy
Xln; fms. sub-chk, sub-succo.
practically fms. sub-litho gray.
dul. yel. fluor. lps; No cut;
No Vis POR.
② hvy. fms. Lms. med. to drk gray;
silt to extra. Shly; crypto. Xln
practically; No fluor; No cut;
No Vis POR

③ Sh med. to v. drk gray -
Sh. to extra. calc. grading.
to shly Lmsts
④ Widely scattered sh. v. drk gray to
black-carb.

Interbedded Lmsts & Shs
Similar 5605-5666
w/zbw. Lms. drk. tan to
lt. brown; crypto. Xln.
sub-litho gray; No fluor; No cut
No Vis POR

120 u BG
C

5700

5721-5802
Interbedded Lmsts and Shales
Similar 5605-5666
w/very zbw. Shs. v. drk. gray
to black-carb.

5802-5805 Sh. v. drk gray
to black-carb

5805-5822 Lm. silt
tan to lt. gray; v. fin. to med
gr.; composed Lm. gas,
foss. frags. (gas crypto to
v. v. fin. Xln.) - matrix sub-silt
sub-succo & pe. cherty. silt
v. silt to v. sdy. v. fin. gray
ang.; silt. to zbw. gray
to x. chlorite lps; w/dul
lt. yel. fluor. lps; No cut
No Vis POR w/ v. thin
Interbeds to laminations

silt stn. gray to tan clay for
Calc. f. med. No fluor; No cut
No Vis POR

5822-5827 Sh. v. drk. gray
5827-5834 silt to v. fine
silty lt. gray; zbw. greenish lps
to tan. tan high lps; ang. v.
v. pr. ly. so. st. v. v. drk. gray

Narrow Fin

100 u BG
G

5800

5803-5805
127 u

95 u BG
G

90 u
182 u
CFS

H. yel. fluor. 1 1/2. No cut
No vis for w/u thin
Interbeds to laminations
siltstn. gray to tan clay for
Calc. filled. No fluor. No cut
No vis for

5822-5827 Sh. v. dk. gray.
5827-5834 silt to w. tan.
Sd. st. 1/4 gray, 2/4 greenish IPS
to trs. tan to 1/4 IPS, 2/4 gray
v. pr. ly. sort. ext. sily clay
filled for ext. calc
filled. No fluor. No cut

5834-45 sh. med. gray, silt to very sily
No vis for

5445-5869 Sh. med. gray
w/silky luster IPS to
dk. gray - s. pinter
5869-703 Lm. Sd. st. tan to H. gray
v. fin. to med. gray, composed Lm.
grs. foss. ch. grs. cryp. to
v. u. fin. xln. matrix sub-chk
sub-super. v. p. ch. stn. sily
to ext. calc. sily - v. u. tan
ang. to silt. sily. 1/4 to H. yellow.
No cut. No vis for

5873-5899 Fragm. Lms. trs. white to gray
Chk. trs. w/chk. solites, v. tan, grayish. IPS
v. fin. to coarse gray composed by IPS
foss. frag. ch. solites, grs. cryp. to
matrix sily. sub-chk. sub-super. calc.
yel. sily. No vis for

5900
Fragm. Lms. grayish. tan to gray v. tan
to coarse gr. composed by grs. cryp.
matrix sub-chk. sub-super. calc.
foss. frag. ch. solites, grs. cryp. to
matrix sily. sub-chk. sub-super. calc.
yel. sily. No vis for

5915-5933 Fragm. Lms. similar
5873-5898

Sh med. gray, platy, firm

Sh med. gray, earth, matt
texture, soft & mushy when wet

Fragm. Lms. H. to med. gray to tan
abn. mottled; v. fin. to coarse gr.
composed Lm. grs.; foss. frags
& dolites (gray & tan), grs. cryp. to
v. u. fin. xln.; matrix cryp. to
v. u. tan; trs. chk, sub-chk,
sub-super & p. ch. stn. and

Shale matrix IPS similar
5953-5973; dul. H. to 5 l. trs.
H. yel. fluor. IPS; No cut
No vis for.

Note 5990-6000 sample
has trs. dolomite, H. tan
med. xln. ext. sily. sucra.
trs. finely disseminated
pyrite; v. dul. yel. fluor.
No cut; gd. to excel. interxln.
porosity

w/poss interbeds
Shales similar 5953-5973

Verticalized Sh. & Lms. Conglomerate
D Shs. grays, grns, reds & maroons

Merrifield

5803-5805

95U BG
SHOW
102U

SHOW
127U

100UBG
SINECUT
115U

92UBS
CFS

SHOW
132U

Chester

5873-5875

75U BG

65U BG

60U BG

70U BG

65U BG

WOB 35000
RFM 80
SPM 110

No cut, gd to excel interbed.
Porosity

w/loss interbeds

Shales similar 5953-5973

Verigated Sh. & Lms. Conglomerate

① Shs gray, grns, red & maroons

② Lms. H. gray to tan, greenish. IP's to
fines H. gray, crypto. to v. fin. x.lm.;
fines. sub-chalk, sub-suc crest packets;
fines. sli. to faly foss. grading to
fragm. Lms. similar 5953 -
6065; f. f. v. dul. H. vel. fluors.
No cut; No vis por

Lms. f. wh. to cream chalk to cream tal. f. f.
crypto. to v. fin. x.lm.; sli. to very
oolitic (sm, med & lg) matrix
chalk, sub-chalk, sub-suc crest
packets; v. dul. H. to H. vel. fluors;
No cut; No vis por

Verigated Shs & Lms. Conglomerate
similar 6016-6107 w/ f. f. Lms
H. gray, pinkish IP's to f. f. pink
& H. green; crypto. to v. fin. x.lm
v. to extremely oolitic;
matrix sub-chalk to sub-suc crest
& packets; f. f. dul. H. vel. fluors;
No cut; No vis por

Reworked St. Genevieve Lms. H. gray
to tan, greenish IP's to f. f. pinkish
IP's; crypto. to v. fin. x.lm.;
v. to extremely micro-oolitic; por
sli. to f. f. Qtz. Sdy - v. fin. gr-
ang. i matrix chalk, sub-chalk,
sub-suc crest, v. dul. H. vel. fluors;
No cut; No vis por w/ f. f. Chert
H. gray, v. f. fluors; w/ f. f. interbeds
No visible porosity

In Place St. Genevieve

Lms. H. gray, to tan, greenish IP's
crypto. to v. fin. x.lm.; h. f. f. to
v. abn. micro-oolitic; f. f. por
sli. to f. f. Qtz. Sdy - v. fin. gr-
ang. i matrix f. f. sub-chalk,
sub-suc crest. to f. f. packets;
dul. H. vel. fluors; No cut;
No visible porosity

Lms. f. wh. to cream-chalk & tan
grayish. IP's; crypto. to v. fin. x.lm;
v. to extremely oolitic (sm, med & lg)
matrix chalk, sub-chalk, sub-suc crest
& packets; dul. H. vel. fluors; No cut
No vis por w/ f. f. chert gray to tan
f. f. to extreme
Lms. extreme wh. to cream-chalk w/ chalk
oolitic IP's & tan; crypto. to v. fin. x.lm;
v. to extreme oolitic (med to lg) matrix
chalk; sub-chalk, sub-suc crest & packets
dul. H. vel. fluors; No cut
No vis por w/ f. f. chert
Replaced oolitic lms to
oolitic chert cementation
& cementation apparent

6288-6329 Lms. f. wh. to cream
chalk w/ chalk oolites IP's and
grayish tan to tan; crypto. to v.
v. fin. x.lm. v. to extreme oolitic
(sm, med & lg) matrix f. f. chalk,
sub-chalk, sub-suc crest & packets;
dul. H. vel. fluors; No cut; No vis por

70 U BG

65 U BG

55 U BG

60 U BG

Reworked
St. Genevieve
6169 - 61465

47 U BG

43 U BG

40 U BG

St. Louis
6259
-3561

NOB 38000
RFM 75
SPM 110
PF 1406

38 U BG

v. to extremely oolitic (med to lg.) matrix
chlk w/ sub-chlk, fms sub-sucro & packstn
dwl. ye. fluor. No cut
No vis por w/ zpn chert
Replaced oolitic dms to
oolitic chert cementation

6300
6288-6329 Lms. fms wht to crm
chlk w/ chlk oolites IP's and
grayish tan to tan, crypto to v
v. f. x. m. v. to extremely oolitic
(sm, med to lg) matrix (res chlk,
sub-chlk, sub-sucro & packstn
dwl. lt. ye. fluor. No cut
w/ fms chert gray to tan, fms to opaque
Lms. grayish tan to tan, crypto to br
v. f. x. m. v. to extremely oolitic (to med
fms sm) matrix, grayish, sub-chlk
& fms sub-sucro, dwl. H. to dwl. ye
fluor. No cut, No vis por &
fms chert wht to gray, theotite
w/ dead blk oin inclusions
No visible porosity

6341-6396 Lms. fms. wht to crm
chlk & grayish tan to tan, crypto. to
v. f. x. m. v. fely. to extremely oolitic
(med to lg to sm) matrix, fms.
sub-chlk, sub-sucro & packstn,
dwl. H. ye. fluor. No cut.
No vis por. w/ fms. to hvy. fms
chert wht., gray to tan, trans
to opaque, w/ fms of tr. w/ dead
blk. oil inclusions & sh. fms.
chert gray, replaced oolitic
Lms. to oolitic chert, opaque

6400
Lms. extra. abn. wht. to crm-chlk
w/ chlk oolites IP's, and crm to tan,
crypto. to v. f. x. m. v. to extremely
oolitic (med to lg & fms sm.)
matrix (x abn. chlk, abn subchlk
sh. fms sub-sucro and packstn,
dwl. H. to H. ye. fluor. No cut
No visible porosity

Lms. similar 6341-6396
w/ only fms chert crm, gray
to tan, opaque to transl.

Lms. grayish tan to tan, crypto. to
v. f. x. m. v. sub-chlk fms sub-sucro &
packstn & fms. sub-sucro & geographic
platy dwl. ye. fluor. No cut
No vis por. fms. to hvy. fms chert
w/ fms. crm, gray to tan, opaque
Lms. tan, grayish IP's crypto. to tan
sh. fms to oolitic med to lg fms sub-
sucro & chlk sub-sucro & sub-sucro
& fms packstn, dwl. ye. fluor. No cut
No vis por. w/ fms chert gray to tan
opaque to transl.

Lms w/ chert similar 6452-6470
Lms w/ chert similar 6470-6480
Poss dolomitic IP's

Lmy. Dolo. to Dolo. Lm. H. gray,
tanish IP's to tan, crypto. to tan
x. m. v. fms. chlk, fms sub-chlk,
sub-sucro & packstn, slit to abn
phantom oolitic to fms
oolitic (med, lg & fms. sm) dwl
ye. fluor. No cut, No vis por
w/ sh. fms. chert wht., gray to
tan, opaque

Interbedded Limestones
of fms. grayish, tan, sl. dolo. IP's,
tan, grayish, tan, crypto.
crypto. to v. f. x. m. v. phantom
oolitic to fely to v. oolitic (med
lg & fms sm) matrix chlk, subchlk
sub-sucro to fms sucro & fms
packstn, fms dwl. H. ye. fluor.
No cut, No vis por. to fms.

38U BG

C

C

35U BG

C

NOD 35000
RFM 90
SPM 58
PF 1200

C

36U BG

C

39U BG

C