

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs 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
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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
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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:	
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Form	ACO1 - Well Completion
Operator	Quail Oil & Gas, LC
Well Name	SLY 2 SWD
Doc ID	1325782

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	2710-2730	2000 Gal 20% HCL	2710-2730

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report

Ticket No. **3046**

Foreman KEVIN MCCOY

Camp EUREKA

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
11-18-16	1016	Sly # 2 SWD	6	17S	6E	MORRIS	Ks	
Customer <u>QUAIL OIL & GAS, LC</u>			Safety Meeting KM DG SM		Unit #	Driver	Unit #	Driver
Mailing Address <u>525 INDUSTRIAL DR P.O. Box K</u>					105	DAVE G.		
City <u>GARDEN CITY</u>					112	STEVE M.		
State <u>Ks</u>		Zip Code <u>67846</u>						

Job Type SURFACE Hole Depth 287' KB Slurry Vol. 42 BBL Tubing _____
 Casing Depth 276.94' G.L. Hole Size 12 1/4" Slurry Wt. 14.8 # Drill Pipe _____
 Casing Size & Wt. 8 5/8" 28 # Cement Left in Casing 15' Water Gal/SK _____ Other _____
 Displacement 17 BBL Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting: Rig up to 8 5/8" casing. Break circulation w/ 5 BBL fresh water. Mixed 190 SKS 60/40 Pozmix Cement w/ 3% CaCl2, 2% Gel, 1/4 # FloSeal/sks @ 14.8 #/gal yield 1.24 = 42 BBL slurry. Displace w/ 17 BBL fresh water. Shut casing in. Good cement returns to surface = 8 BBL slurry to pit. Job complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	840.00	840.00
C 107	60	Mileage	3.95	237.00
C 203	190 SKS	60/40 Pozmix Cement	12.75	2422.50
C 205	490 #	CaCl2 3%	.60 #	294.00
C 206	325 #	Gel 2%	.20 #	65.00
C 209	50 #	FloSeal 1/4 #/sk	2.25 #	112.50
C 108A	8.17 Tons	Ton Mileage 60 miles	1.35	661.77
<u>THANK YOU</u>			Sub Total	4632.77
			Less 5%	242.49
			7.5% Sales Tax	217.05
Authorization <u>Daron Pallaso</u>	Title _____			Total <u>4607.33</u>

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. **3052**
 Foreman Kevin McCoy
 Camp _____

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
11-30-16	1016	Sly # 2 SWD	6	17S	6E	MORRIS	Ks	
Customer <u>QUAIL OIL & GAS, LC</u>			Safety Meeting KM AM SM RL		Unit #	Driver	Unit #	Driver
Mailing Address <u>525 INDUSTRIAL DR. P.O. Box K</u>					<u>104</u>	<u>ALAN M.</u>	<u>112</u>	<u>Steve M.</u>
City <u>GARDEN CITY</u>			State <u>Ks</u>		<u>141</u>	<u>Rick L.</u>		
Zip Code <u>67846</u>								

Job Type Longstring Hole Depth 2762' KB Slurry Vol. _____ Tubing _____
 Casing Depth 2749.88' G.L. Hole Size 7 1/8" Slurry Wt. 13.7# Drill Pipe _____
 Casing Size & Wt. 5 1/2 15.50# Cement Left in Casing 0' Water Gal/SK 9.0 Other _____
 Displacement 66.5 BBL Displacement PSI 800 Bump Plug to 1400 PSI BPM _____

Remarks: Safety Meeting: Rig up to 5 1/2 casing. Break Circulation w/ 10 BBL Fresh Water. Mixed 185 SKS THICK Set Cement w/ 5# Kol-Seal/sk, 2# PhenoSeal/sk @ 13.7#/gal, yield 1.85, = 60 BBL Slurry. Wash out Pump & Lines. Shut down. Release Latch down Plug. Displace Plug to Seat w/ 66.5 BBL Fresh Water. Final Pumping Pressure 800 PSI. Bump Plug to 1400 PSI. Wait 2 mins. Release Pressure. Float & Plug Held. Good Circulation @ ALL times while Cementing. Job Complete. Rig Down

Plug Rat hole w/ 15 SKS, Mouse hole w/ 10 SKS

Centralizers on #1, 3, 5, 7, 9, 11, 13, 15, 17, 19
Basket on top of #5

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1050.00	1050.00
C 107	60	Mileage	3.95	237.00
C 201	185 SKS	THICK Set Cement	19.50	3607.50
C 207	925 #	KOL-SEAL 5#/SK	.45 #	416.25
C 208	370 #	PhenoSeal 2#/sk	1.25 #	462.50
C 108 B	10.17 Tons	TON Mileage 60 miles	1.35	823.77
C 113	4 HRS	80 BBL VAC TRUCK	85.00	340.00
C 224	3300 gals	City water	10.00/1000	33.00
C 661	1	5 1/2 AFU FLOAT shoe w/ LATCH down	294.00	294.00
C 421	1	5 1/2 LATCH down Plug	230.00	230.00
C 604	1	5 1/2 Cement BASKET	225.00	225.00
C 504	10	5 1/2 x 7 1/8 CENTRALIZERS	48.00	480.00
			Sub Total	8199.02
			Less 5%	431.51
			7.5% Sales Tax	431.12
Authorization <u>Daron Pottas</u> Title _____			Total	8198.63

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

REMARKS

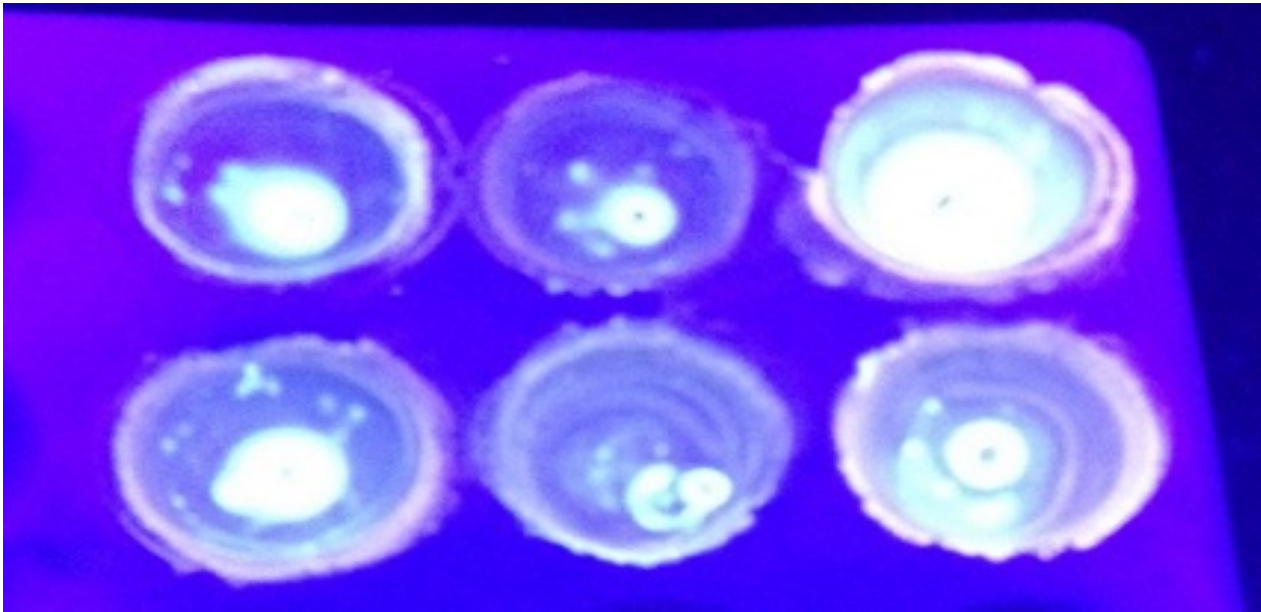
The only shows of oil encountered in this well were in the Miss Chert.

DST CHARTS

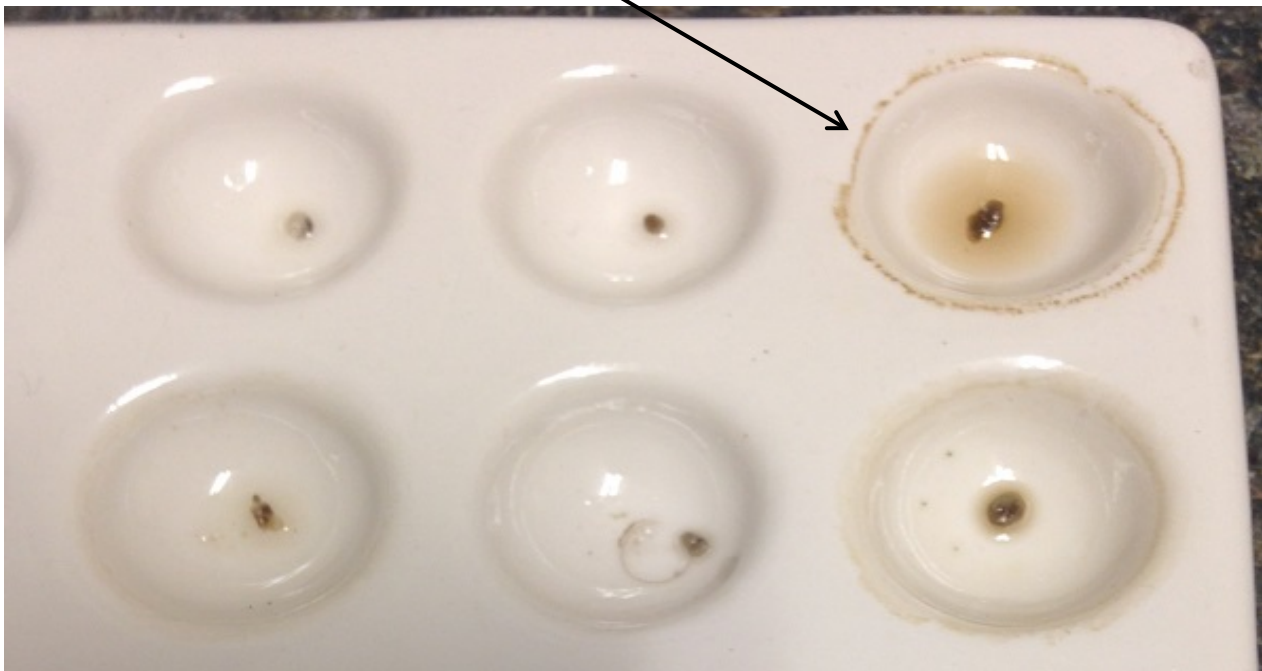
NONE

Oil flourcence from top 10' of the Miss Chert sample from 2,070'-2,080'

Immediate streaming cuts (using oil solvent) from the Miss Chert porosity leaving residual oil ring when dried.



Same photo under normal light, note brown residual ring of oil



LITHOLOGY

DEPTH

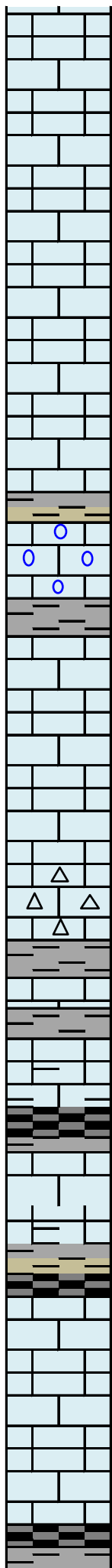
MIN/FT

DST's

SAMPLE DESCRIPTIONS

REMARKS

	0	5	10			
	1500				<p>Sh, lt gr, sm sd grains, sm blk carb inclusions</p> <p>Sh, gr, sm sd, md gr, well sort well cem, no por</p> <p>Sh, lt gr to dk gr, trc pyr, trc pale gr sh</p> <p>Sh, gr, with ls tn-brn, mxln dns</p>	<p>On location 11/28, 5:30 pm</p>
	1550				<p>Sh, gr, ls tn-brn, hd dns, mxln</p>	
	<hr/>					
						<p>LANSING 1576 (-173)</p>
	1600				<p>Ls, wh-crm, mxln, hd dns, no por, wh ls chlky in part</p> <p>Ls, wh-crm, mxln, hd dns, no por, sm mineral flour, trc pale grn sh</p> <p>Ls, wh-crm, mxln, hd dns, no por, sm blk carb sh</p> <p>Ls, wh-tn, mxln, trc foss & pyr, sm pale grn sh</p>	
	1650				<p>Sh pale grn to gr, sm rd-brn, mott in part, Ls, tn, mxlm to xln, no por, hd dns, sm chlky</p> <p>Sh pale grn to gr & dull red</p> <p>Ls, crm-tn, most chalk, foss, ool, mottled, slty in part, sm</p>	



1700

Ls, tn-gr, foss, mxln-fxln, sm dull grn-gr, sh, trc pyr

Ls, tn-gr, mxln, dns, sm foss,

Ls, tn-gr to crm, mxln, dns, sm pale grn sh

1750

Ls, tn, mxln, hd, trc ool, with pale grn sh, pyr

11/29, 8:00 am

Sh, gr-blk, mott, with sm Ls, crm, foss chlky

Ls, wh-crm, soft chlky, ool to foss

1800

Ls, tn-gr, mxln to fxln, foss with chert tn

Ls, wh-crm, mxln, hd dns, no por

Ls, tn, hd dns with sm Sh, gr-dk gr

Ls, gr, fxln, grading to dirty Ls, gr with Sh, gr

1850

Sh, blk, carb, Sh, gr, abndt pyr

STARK
1848 (-445)

Ls, crm-tn, mxln, hd dns, trc Chrt, wh, no por, NS, with Sh, gr-grn

Sh, blk, carb, Sh, gr, sm pyr

Ls, tn, mxln to chlky, trc foss, soft

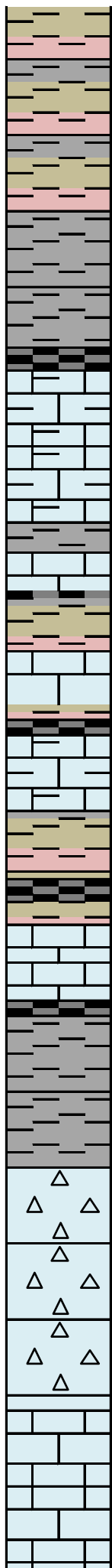
Ls, tn, mxln, hd dns, no por

1900

Ls, crm-tn, fxln, v foss, ool in prt, soft to chlky, NS

BASE KANSAS CITY
1908 (-505)

Sh, dk gr-blk



1950

2000

2050

2100

Sh, vari-color, gr-grn-tn, pyr

Sh, pale grn, to sandy sh with wh ls
cem, no por, NS

Sh, gr with carb inclusions, sandy in
part, abndt pyr, np por, NS

Sh, dk gr-blk

Ls, tn-gr, argillaceous, foss in part

Ls, lt gr, hd dns, mxln, grading to mottled
gr argillaceous Ls

Ls, lt gr to dull yellow mottled, hd
dns, mxln with Sh, gr

Sh, vari colored gr-maroon, with
Ls, tn, sm foss, hd dns, fxln

Sh, vari colored gr-maroon-dull yellow

Sh, vari colored gr-maroon-dull
yellow, abndt pyr, with Ls, tn, mxln
grading to argillaceous

Sh, blk, carb
Ls, tn, mxln, hd dns

Sh, gr-brn-pale grn-blk
Ls, tn-brn, mxln, hd dns, trc foss

Sh, brn-pale grn

Sh, blu-grn, trc chrt, wh-dull yellow, NSO

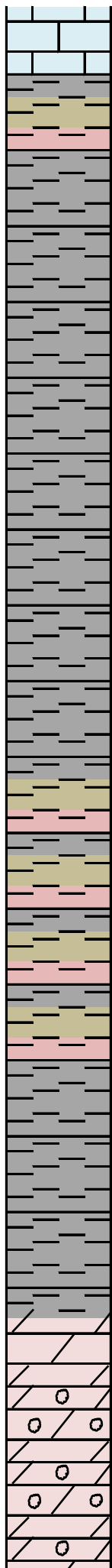
Chrt, wh, tripolitic, F-GSFO, scatt flour, f-
g odor, immed strm cut, good halo
ring, 10% with oil sat por in weathered
chert por, 25% with dk brn oil droplets

Chrt, wh, slight SFO, no odor, poor
scattered flour

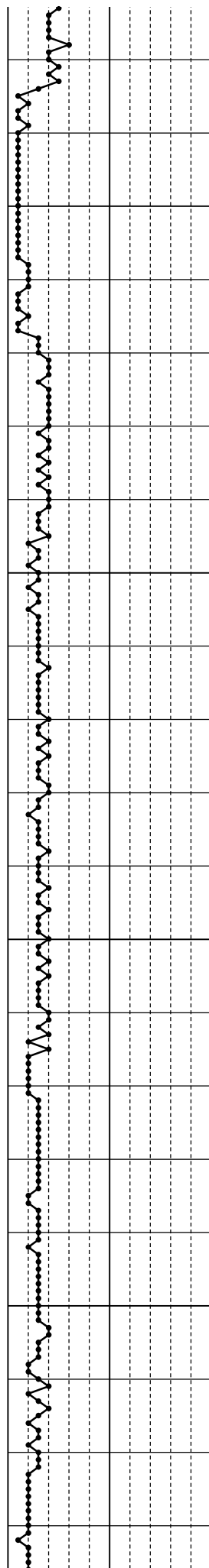
Ls, wh-crm, mxln to fxln, hd dns, no
por, NSO

Miss Chert
2067 (-664)

Miss Lime
2104 (-701)



2150
2200
2250
2300



Sh, pale grn-maroon-gr

Kinderhook
2135 (-732)

Sh, gr, with very slty Sd, gr, pyr

Sh, gr, with very slty Sd, gr, abndt pyr

Sh, gr-maroon, mottled, with v slty
Sd, gr, abndt pyr

Sh, gr, abndt pyr

Sh, gr-maroon with v slty Sd, gr, well
cem, abndt pyr

Sh, orng-dull yellow-red, sm mottled

Sh, red-brn

Sh, lt brn, mottled

Hunton
2302 (-899)

Dol, lt gr-wh, mxln-xln, sm rhombic
vugs, hd dns, sm por, trc pyr, NSO, No
odor, brite mineral flour

Dol, lt gr, hd, abndt pyr overgrowth, vugs
and vln por, NSO

and xln por, NSO

2350

Dol, wh-crm, hd dns, mxln, with trc
chrt, wh, NSO

2400

Dol, crm, mxln-xln, most hd dns, sm
vuggy & xln por, Chrt, wh-lt tan, NSO

2450

Sh, pale grn, slightly sandy in part

Maquoketa
2443 (-1040)

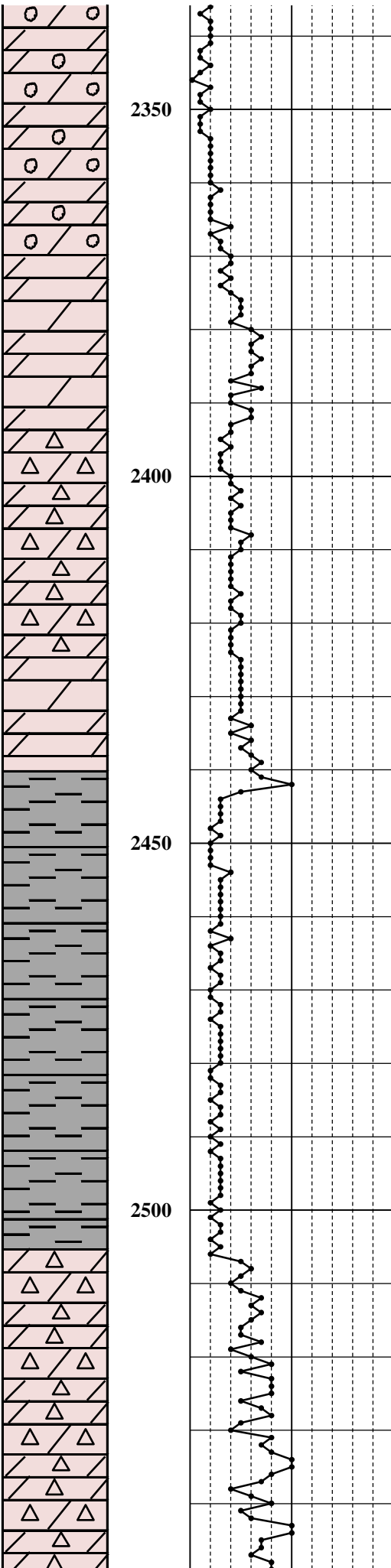
2500

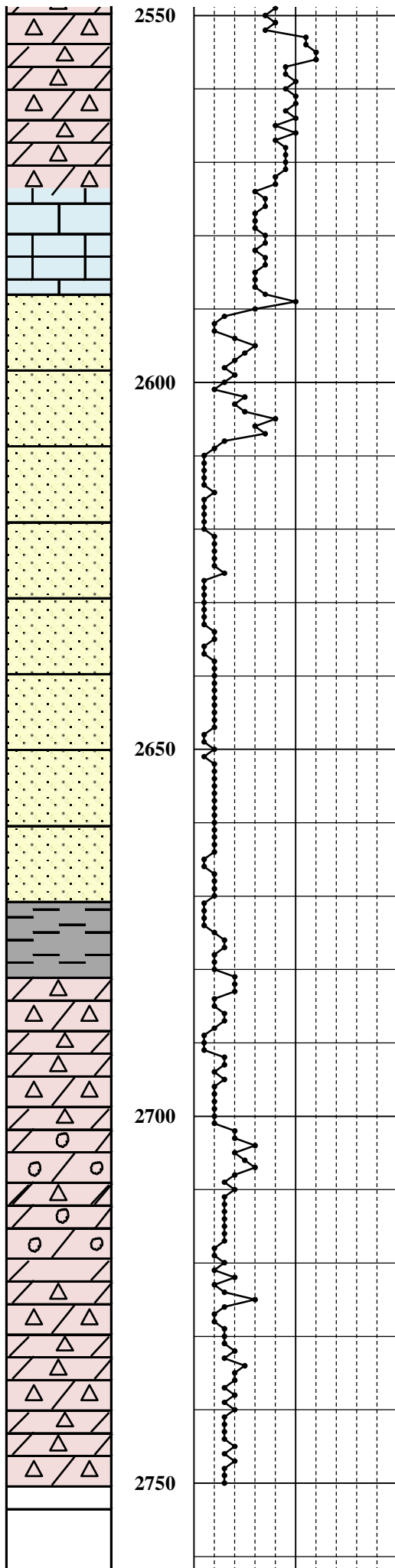
Sh, pale grn-grn, grading to ss, pale grn, f
gr, well sort, well cem, argillaceous

Dol, wh-gr, micro-fine xln, abndt
Chrt, tn, poor por, NSO

Viola
2507 (-1104)

Chrt, tan, dol, tan, hd dns, mxln, no
por, NSO





Ls, crm-buff, xln, no por, NSO

Ss, brn, f-m gr, qtz, well sort, su-ang to rounded, clean, well cem with ls, NSO

Ss, clear, qtz, course gr, fair por, well sorted, well rounded, frosted, ls cem, NSO

Ss, clear, qtz, course gr, v good por, well sorted, well rounded, frosted, NSO

Ss, clear, qtz, med gr, well sort, well cem, ls,

Ss, clear, qtz, course gr, v good por, well sorted, well rounded, frosted, NSO

Ss, clear, qtz, f-c gr, poor por, poorly sorted, well rounded, frosted, NSO

Sh, br & pale gr

Dol, gr-brn, mxln, hd dns, sm Chrt, wh, NSO

Dol, gr-tn, fxln to sucrosic, trc xvln vugs, p-f por, with Chrt clr-wh, NSO

Dol, gr-tn, xln to sucrosic, trc xvln vugs, good inter-xln por, with Chrt clr-wh, NSO

Dol, crm, xln to sucrosic, good inter-xln por, with Chrt clr-wh, NSO

Simpson
2590 (-1187)

Arbuckle
2681 (-1278)

TD 2,750'
11/30/2016