

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



Cement or Acid Field Report

Ticket No. **3550**
 Foreman Rex Ledford
 Camp Eureka 14

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
10-28-17	1016	Roseclans # 1	32	32	3E	Cowley	Ks
Customer <u>Quail Oil & Gas LLC</u>		Safety Meeting RL AG JP	Unit #	Driver	Unit #	Driver	
Mailing Address <u>P.O. Box 2 525 Industrial Dr.</u>			105	Allen S.			
City <u>Garden City</u>			114	Jason H.			
State <u>Ks</u>	Zip Code <u>67846</u>						

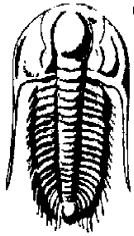
Job Type P.T.A Hole Depth _____ Slurry Vol. _____ Tubing _____
 Casing Depth _____ Hole Size 7 7/8" Slurry Wt. _____ Drill Pipe 4 1/2"
 Casing Size & Wt. _____ Cement Left in Casing _____ Water Gal/SK _____ Other _____
 Displacement _____ Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety meeting - Rig up to drill pipe. Plugging orders as follows:

- 35 sks @ 350'
- 25 sks @ 600'
- 30 sks @ RH
- 20 sks @ MH

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C103	1	Pump Charge	1050.00	1050.00
C107	50	Mileage	3.95	197.50
C203	110 sks	600/40 Pozmix cement	12.75	1402.50
C206	380 "	4% gel	.20	76.00
C107A	4.73	tan mileage bulk tank	m/c	345.00
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin: 0 auto;"> 590 <158.504> 3012.26 </div>				
			Subtotal	3071.00
			Sales Tax	99.80
Authorization <u>by Rex Ledford</u> Title _____			Total	3170.80

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.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Quail Oil & Gas
 PO Box K
 Garden City, KS 67846
 ATTN: Lee Shob

32-32S-3E Cowley
Rosencrans 1
 Job Ticket: 57843 **DST#: 1**
 Test Start: 2017.10.27 @ 14:45:04

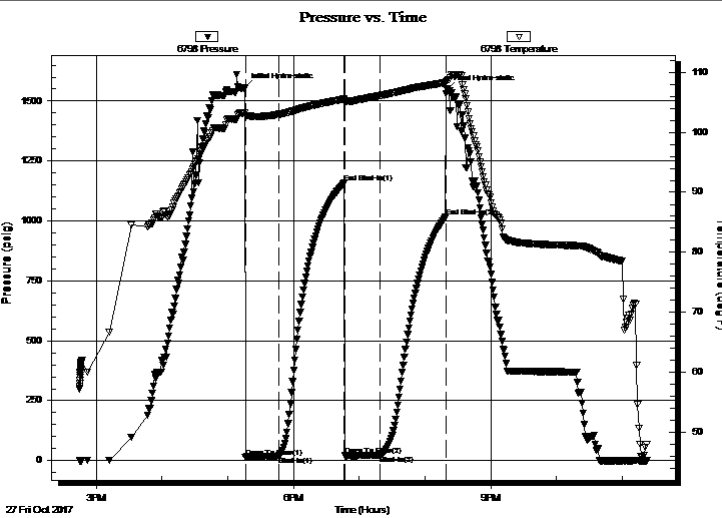
GENERAL INFORMATION:

Formation: **Bartlesville Sand**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 17:16:19 Tester: Leal Cason
 Time Test Ended: 23:22:19 Unit No: 74
 Interval: **3145.00 ft (KB) To 3185.00 ft (KB) (TVD)** Reference Elevations: 1138.00 ft (KB)
 Total Depth: 3185.00 ft (KB) (TVD) 1129.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: 6798

Press@RunDepth: 22.70 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.10.27 End Date: 2017.10.27 Last Calib.: 2017.10.27
 Start Time: 14:45:04 End Time: 23:22:19 Time On Btm: 2017.10.27 @ 17:15:19
 Time Off Btm: 2017.10.27 @ 20:20:04

TEST COMMENT: IF: Weak Surface Blow , Dead @ 11 minutes
 IS: No Blow Back
 FF: No Blow
 FSI: No Blow Back



PRESSURE SUMMARY

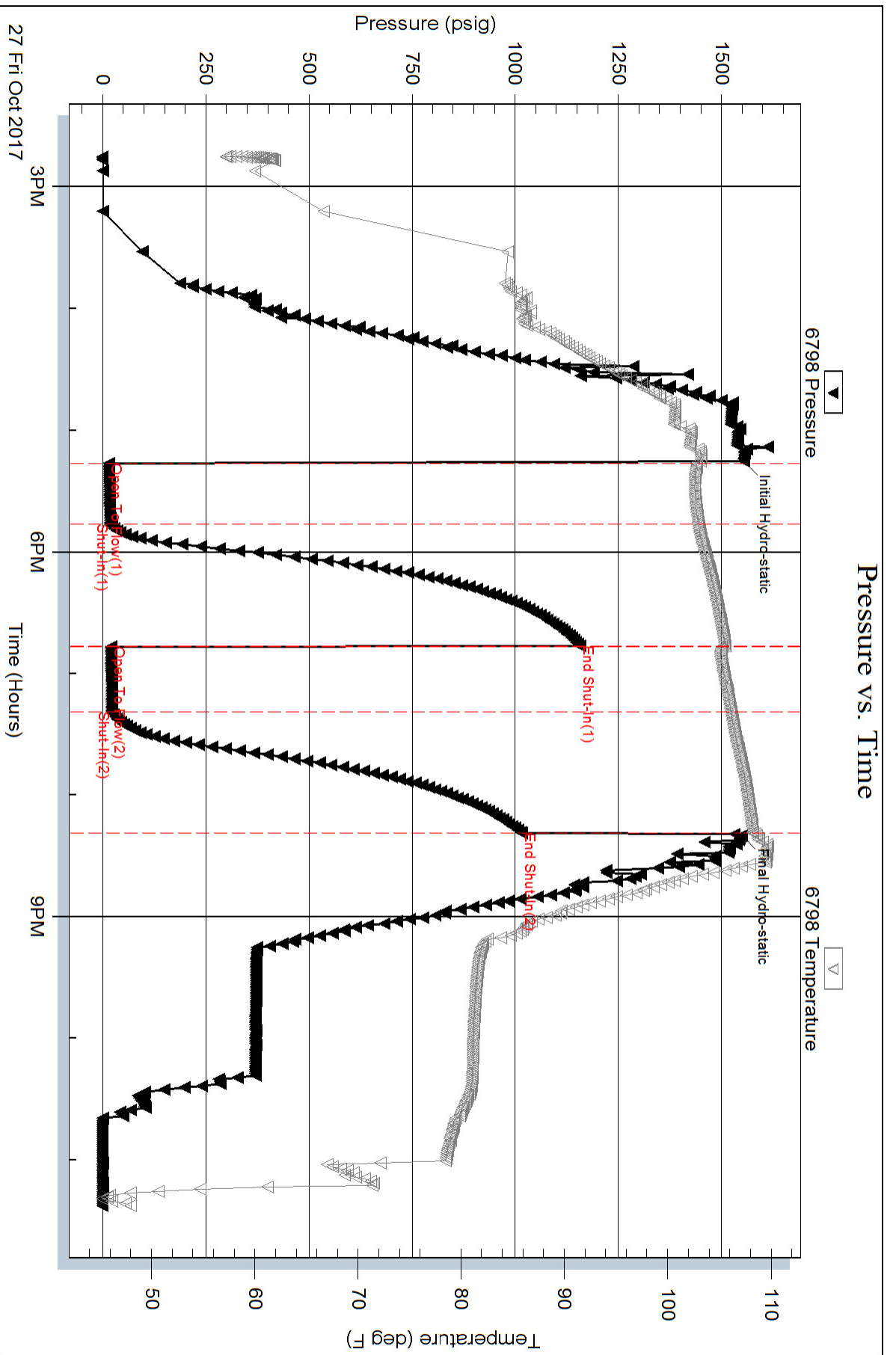
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1554.39	103.18	Initial Hydro-static
1	14.78	102.75	Open To Flow (1)
31	18.43	102.98	Shut-In(1)
91	1157.49	105.57	End Shut-In(1)
92	20.58	105.26	Open To Flow (2)
124	22.70	106.11	Shut-In(2)
184	1016.32	108.25	End Shut-In(2)
185	1549.58	108.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



GEOLOGIST'S REPORT

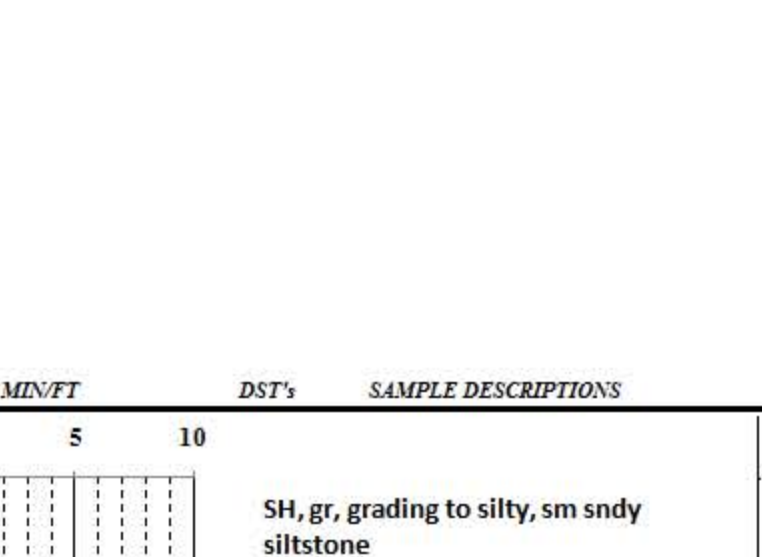
Drill Time & Sample Log

COMPANY <u>QUAIL OIL & GAS, LC</u>		API 15-135-24679-0000
LEASE <u>ROSECRANS</u>		ALT. ID
LOCATION <u>2,510' FSL & 655' FWL</u>		ELEVATIONS KB <u>1,138</u> GL <u>1,129</u>
FIELD		START SAMPLE REPORT 2,100'
SECT. <u>32</u>	TOWNSHIP <u>33S</u>	RANGE <u>3E</u>
COUNTY <u>COWLEY</u>		STATE <u>KS</u>
CONTRACTOR <u>C & G DRILLING, INC.</u>		CASING
SPUD <u>10/23/17</u>	COMP <u>10/29/17</u>	SURFACE 8 5/8 @ 311'
RTD <u>3,300'</u>	LTD <u>3,300'</u>	PRODUCTION
OPEN HOLE LOGS <u>Ind, Micro, Den-Neu, Sonic</u>		

FORMATION TOPS	LOG	SAMPLE	CHRONOLOGY
Iatan	2,156'	2,154'	10/23 MIRU
Stalaker	2,185'	2,196'	10/24 311' WOC
Layton	2,597'	2,586'	10/25 1,675' Drilling
Marmaton	2,937'	2,933'	Geo. on location 10/25 @ 3:00 pm
Pawnee	2,980'	2,975'	10/26 3,037'
Ft. Scott	3,021'	3,017'	10/27 3,185 DST #1
Cherokee	3,054'	3,050'	10/28 TD Logging
Bartlesville	3,153'	3,157'	
Miss	3,212'	3,198'	

REMARKS

DST CHARTS



LITHOLOGY	DEPTH MIN/FT	DST's	SAMPLE DESCRIPTIONS	REMARKS
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LITHOLOGY	DEPTH MIN/FT	DST's	SAMPLE DESCRIPTIONS	REMARKS
	2100		SH, gr, grading to silty, sm sndy siltstone	
			SS, gr-wh, qtz, vf-f gr, well sort, sub ang, abdt clay, micaceous, carb lam,	
			SH, gr, with ss as above trc pyr, trc maroon sh	
	2150		LS, tn, mxln, hd dns, trc foss	Iatan 2154 (-1016)
			SH, gr, grading to silty, sm sndy siltstone	
			SH, gr-dkgr, sm sandy in part	
	2200		SS, wh-clr, qtz, f gr- m gr, well sort, sub ang, sm friable, f-good por, No Show	Stalaker 2196 (-1059)
			SH, lt gr	
			SS, clr, qtz, f gr, well sort, sub ang, sm friable, f por, No Show	
			SS, clr, fn gr, well sort, sub-angular, friable, sm loose angular med gr sand, fair to good por, NS	
	2250		SH, gr-dkgr	
			SH, gr-dkgr with silty	
			SS, gr, vfn, micaceous	
	2300		SH, gr-dkgr	
			SH, gr-dkgr	
			SH, gr-dkgr with siltstone, gr, with vfn sd, micaceous	
	2350		SH, gr-dkgr-brn, trc gr-grn,	
			SS, very silty, gr, vf-gr, carb inclusions	
			SS, very silty, gr, vf-gr, carb inclusions	
	2400		SH, gr-dkgr	
			SH, gr-dkgr with very silty SS, micaceous, trc pyr, carb laminations	
			SS, wh-clr, vf-gr, carb inclusions, & lamintaons, sm mica, sm ls cem, clay filled por	
	2450		SH, gr-dkgr with silty SS, micaceous	
			SH, gr-dkgr	
	2500		SH, gr-dkgr	
			SH, gr-dkgr & trc SH blk	
			SH, gr-dkgr	
	2550		SH, gr-dkgr with sm maroon sh	
			SS, wh-gr, qtz, fn gr, micaceous, sm cem, hd, poor por, NS	Layton Sand 2586 (-1448)
			LS, wh-brn, mott, fxln, pelloids, hd dns	
			SS, gr, qtz, fn gr, well sorted, sm ls cem, sm fria, sm por, NS	
			LS, buff, microxln, micritic, hd dns, brt min flour	
			SS, silty, v fn to fn gr, well sort, rounded, micaceous, poor por, NS	
			SS, gr-wh, med gr, well sort, sub-ang, clean, good por, fri, carb inclusions, sm carl laminations, NS	
	2650		SS, gr-wh, med gr, well sort, sub-ang, clean, good por, fri, NS	
			SS, clr-wh, med gr, well sort, sub-ang, clean, good por, fri, NS	
	2700		SH, gr	
			LS, crm-gr, fxln, sm argillaceous, brt mineral flour, NS	
			LS, crm-tn, mxln, trc foss, most hd dns, NS	
			SH, gr-brn	
	2750		LS, crm-buff, mxln, chlky, soft	
			Sh, gr-blk	
			LS, crm-buff, mxln, chlky in part, trc foss, sm chrt lt gr	
	2800		LS, crm-lt gr, mxln to fxln, foss in part, poor por, NS	
			SH, dk gr	
	2850		LS, gr to lt gr, mxln, hd dns, tite	
			SH, gr	
			SH, gr to pale grn	
	2900		SS, lt gr-pale grn, fn gr, well sort, sub-ang, well cem to argillaceous, hd, trc mica, poor por, NS	
			Sh, gr & pale grn & brn	
			LS, crm, mxln, soft, chlky,	Marmaton 2933 (-1795)
	2950		SH, blk	
			SH, gr	
			LS, crm-tn, mxln, hd dns, poor por, NS	Pawnee 2975 (-1837)
			LS, lt gr-brn, mxln, hd dns, poor por, NS	
	3000		SH, blk	
			SH, gr	Ft. Scott 3017 (-1879)
			SH, blk	
			LS, tn, mxln, hd dns	
	3050		SH, blk	Cherokee 3050 (-1912)
			SH, gr	
			SS, qtz, pale grn, fn gr, well sorted, sub rounded, clay filled, no ls cem, hd to friable-soft, no flour, no odor, no stn, no bubbles, NS	Squirrel Sand
			SH, gr	
	3100		SH, gr-grn-brn	
			SH, gr-dkgr, sandy in part, with LS, gr micritic, hd dns, trc foss	
			SS, gr, qtz, fn gr, mod sort, clay filled por no ls cem, not friable, poor por, sm pyr, sd grades in part to silty, gr	Cattlemans Sand DST #1 3,145-3,185 IF weak blow dead in 11 min FF no blow Rec. 2' mud IH 1,554.39 IF 14.78-18.43 FF 20.58-22.70 ISI 1157.49 FSI 1016.32
	3150		SH, gr-dkgr-blk	
			SS, wh-ltgr, qtz, fn gr, well sorted, sub ang, mica, abd clay filling por, no ls cem, 10-15% of ss, brt yellow flour, lite odor, slow cut, no free oil, no stn	Bartlesville Sand 3157 (-2019)
			SH, gr-maroon-pale grn	
			SS, wh-lt gr, qtz, fn gr, well sorted, sub ang, mica, clay fill por, slow cut, no free oil, fair odor, brt flour	
	3200		LS, wh-crm, arenaceous, soft & chrt, wh-tn	Miss 3198 (-2060)
			LS, wh-crm, arenaceous, soft & chrt, wh-tn, faint odor, sm flour, sm moderate cut, no free oil	
			LS, wh-tn, arenaceous, soft & chrt, wh-tn, good odor, flour, moderate strm cut, stn, no free oil	
			LS, wh-tn, arenaceous, soft, trc chrt, wh, no odor	
	3250		LS, tn-lt brn, mxln-fxln, hd dns, chert, tn	
			LS, gr-dkgr, mxln-xln, hd dns, chert, dk gr	
	3300		TD 3,300'	
	3350			