

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](mailto: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	Eagle Creek Corporation
Well Name	HUBBARD TRUST 1-16
Doc ID	1425001

All Electric Logs Run

DUAL INDUCTION
NEUTRON-DENSITY
SONIC
MICROLOG





## DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

8100 E.2nd st. bldg 1500  
Wichita, Kansas 67226

ATTN: wes Hansen

### Hubbard Trust #1-16

#### 16-18s-7w Rice

Start Date: 2018.09.04 @ 03:28:00

End Date: 2018.09.04 @ 10:27:00

Job Ticket #: 01006      DST #: 1

Eagle Testers

1309 Patton Road Great Bend, Kansas 67530

620-791-7394

Printed: 2018.09.04 @ 10:47:07

Eagle Creek Corporation

16-18s-7w Rice

Hubbard Trust #1-16

DST # 1

Conglomerate Sand

2018.09.04



# DRILL STEM TEST REPORT

Eagle Creek Corporation

16-18s-7w Rice

8100 E2nd st. bldg 1500  
Wichita, Kansas 67226

Hubbard Trust #1-16

ATTN: wes Hansen

Job Ticket: 01006

DST#: 1

Test Start: 2018.09.04 @ 03:28:00

## GENERAL INFORMATION:

Formation: **Conglomerate Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:00:00

Time Test Ended: 10:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3127.00 ft (KB) To 3189.00 ft (KB) (TVD)**

Total Depth: 3189.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1698.00 ft (KB)

1690.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **9139** Outside

Press@RunDepth: 898.37 psig @ 3181.27 ft (KB)

Start Date: 2018.09.04

End Date: 2018.09.04

Start Time: 03:28:00

End Time: 10:21:30

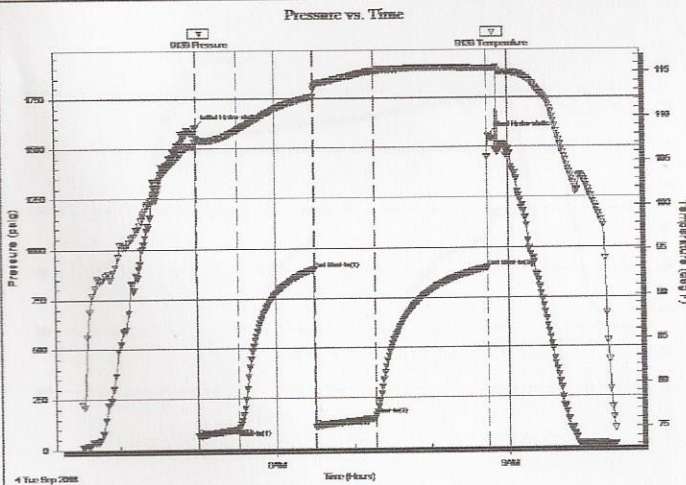
Capacity: 5000.00 psig

Last Calib.: 2018.09.04

Time On Btm: 2018.09.04 @ 04:59:30

Time Off Btm: 2018.09.04 @ 08:44:30

TEST COMMENT: 1st Opening 30 Minutes weak blow built to the bottom of the bucket in 16 minutes  
1st Shut-In 60 Minutes No Blow back  
2nd Opening 45 Minutes weak building blow built to 43 Minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.26	107.20	Initial Hydro-static
1	63.24	107.58	Open To Flow (1)
32	95.92	108.57	Shut-In(1)
91	895.75	112.36	End Shut-In(1)
91	107.83	113.20	Open To Flow (2)
138	161.50	115.26	Shut-In(2)
224	898.37	115.47	End Shut-In(2)
225	1556.73	115.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	2 inches of clean oil on top	0.00
95.00	watery mud with a trace of oil	1.33
0.00	1% Oil 60% Mud 39% water	0.00
90.00	muddy water 15% mud 85% water	1.26
0.00	chlorides 34000	0.00
0.00	120 Gas in the pipe	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Corporation

16-18s-7w Rice

8100 E.2nd st. bldg 1500  
Wichita, Kansas 67226

Hubbard Trust #1-16

Job Ticket: 01006

DST#: 1

ATTN: wes Hansen

Test Start: 2018.09.04 @ 03:28:00

## Tool Information

Drill Pipe:	Length: 3116.00 ft	Diameter: 3.80 inches	Volume: 43.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			Total Volume: 43.71 bbl	Tool Chased 35000.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3127.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.27 ft			
Tool Length:	89.27 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3102.00	
Hydraulic tool	5.00			3107.00	
Jars	5.00			3112.00	
Safety Joint	5.00			3117.00	
Packer	5.00			3122.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3127.00	
Anchor	5.00			3132.00	
Change Over Sub	0.75			3132.75	
Drill Pipe	31.77			3164.52	
Change Over Sub	0.75		Inside	3165.27	
Anchor	16.00			3181.27	
Recorder	0.00	9119	Inside	3181.27	
Recorder	0.00	9139	Outside	3181.27	
Bullnose	5.00			3186.27	59.27 Bottom Packers & Anchor

**Total Tool Length: 89.27**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Eagle Creek Corporation

16-18s-7w Rice

8100 E2nd st. bldg 1500  
Wichita, Kansas 67226

Hubbard Trust #1-16

Job Ticket: 01006

DST#: 1

ATTN: wes Hansen

Test Start: 2018.09.04 @ 03:28:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 43.00 sec/qt  
Water Loss: 11.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5100.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2 inches of clean oil on top	0.000
95.00	w atery mud w ith a trace of oil	1.333
0.00	1%Oil 60%Mud 39%w ater	0.000
90.00	muddy w ater 15%mud 85%w ater	1.262
0.00	chlorides 34000	0.000
0.00	120 Gas in the pipe	0.000

Total Length: 185.00 ft      Total Volume: 2.595 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



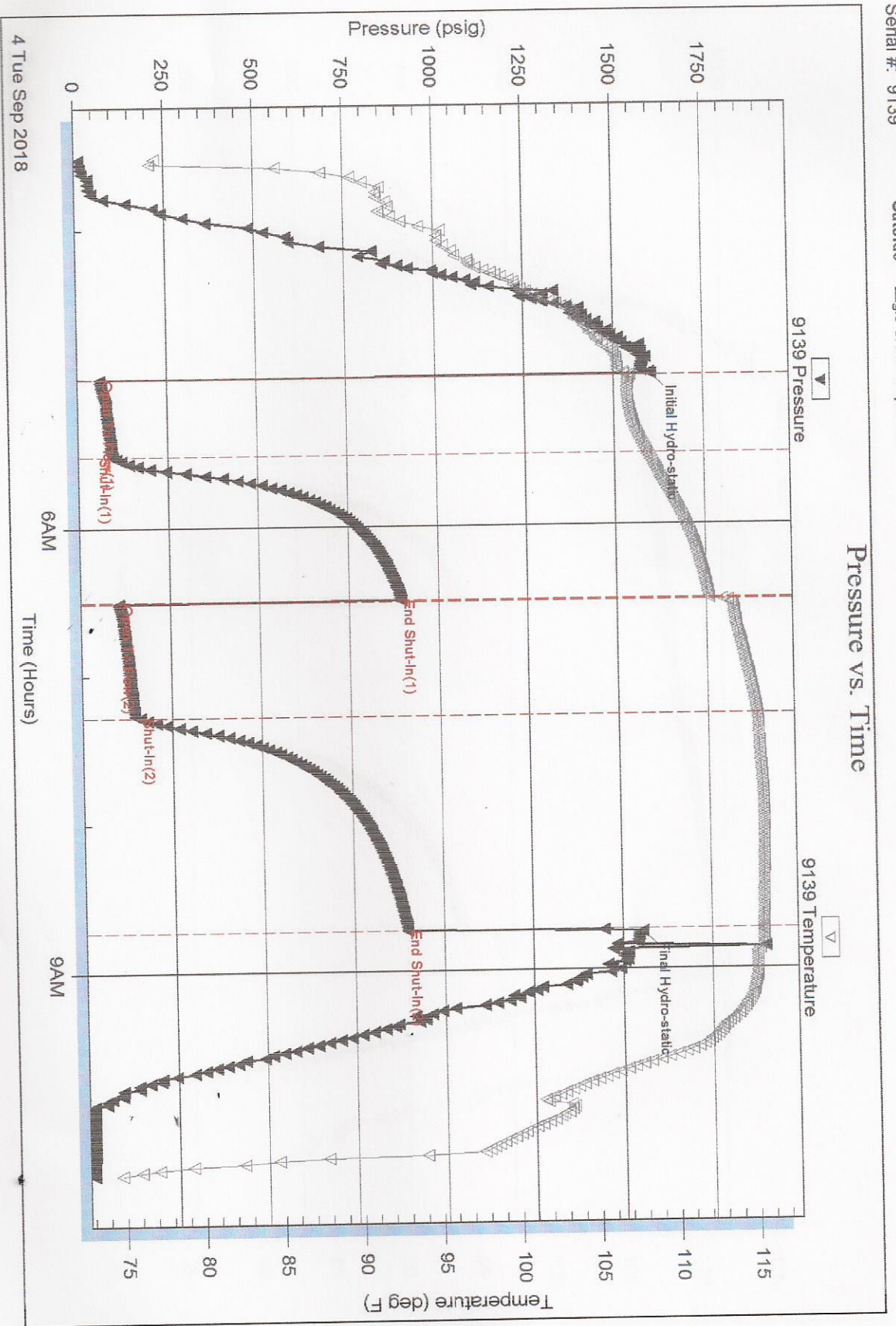
Serial #: 9139

Outside Eagle Creek Corporation

Hubbard Trust #1-16

DST Test Number: 1

### Pressure vs. Time



Elite Cementing & Acidizing of KS, LLC  
 810 E 7th, PO Box 92  
 Eureka, KS 67045



Date	Invoice #
9/6/2018	4120

Bill To	
Eagle Creek Corporation 8100 E 22nd St. North, Bldg 1500 Wichita, KS 67226	
Customer ID#	1213

Job Date	9/5/2018
Lease Information	
Hubbard Trust 1-16	
County	Rice
Foreman	KM

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C103	Cement Pump-Plug (new well)	1	1,100.00	1,100.00
C107	Pump Truck Mileage (one way)	100	4.20	420.00
C203	Pozmix Cement 60/40	195	13.40	2,613.00T
C206	Gel Bentonite	670	0.21	140.70T
C108B	Ton Mileage-per mile (one way)	839	1.40	1,174.60
D101	Discount on Services		-134.72	-134.72
D102	Discount on Materials		-137.69	-137.69T

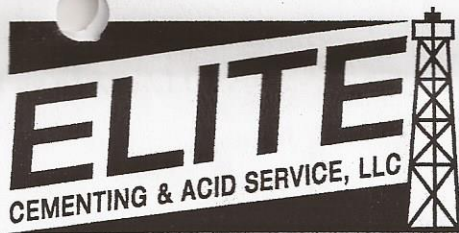
*We appreciate your business!*

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:  
 Elite Cementing & Acidizing of KS, LLC  
 PO Box 92  
 Eureka, KS 67045

<b>Subtotal</b>	\$5,175.89
<b>Sales Tax (7.5%)</b>	\$196.20
<b>Total</b>	\$5,372.09
Payments/Credits	\$0.00
<b>Balance Due</b>	\$5,372.09

10 E 7<sup>TH</sup>  
 PO Box 92  
 REKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**  
 Ticket No. **4120**  
 Foreman Kevin McCoy  
 Camp EUREKA

# I 15-159-22858

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
9-5-18	1213	HUBBARD TRUST 1-16	16	18S	7W	Rice	Ks	
Customer EAGLE CREEK CORPORATION			Safety Meeting KM AM CG	Unit # 104 110	Driver ALAN M. CALEB G.	Unit #	Driver	
Mailing Address 8100 E. 22 <sup>ND</sup> ST. NORTH BLDG 1500								
City WICHITA	State KS	Zip Code 67226						

Job Type P.T.A. NEW WELL Hole Depth 3460' KB Slurry Vol. \_\_\_\_\_ Tubing \_\_\_\_\_  
 Casing Depth \_\_\_\_\_ Hole Size 7 7/8 Slurry Wt. \_\_\_\_\_ Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. \_\_\_\_\_ Cement Left in Casing \_\_\_\_\_ Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement \_\_\_\_\_ Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM \_\_\_\_\_

Remarks: SAFETY MEETING: Rig up to 4 1/2 DRILL PIPE. Spot Cement Plugs AS Following.

35 SKS @ 3375'  
35 SKS @ 1000'  
35 SKS @ 650'  
35 SKS @ 350'  
25 SKS 60' to SURFACE  
30 SKS P.H.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 103	1	Pump Charge	1100.00	1100.00
C 107	100	Mileage	4.20	420.00
C 203	195 SKS	60/40 Pozmix Cement	13.40	2613.00
C 206	670 #	Gel 4%	.21	140.70
C 108 B	8.39 TONS	Ton Mileage	1.40	1174.60
			Sub TOTAL	5448.30
			Less 5%	282.74
			Sales Tax	206.53
				5372.09

Authorization Jay Thrie Title \_\_\_\_\_

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.

Elite Cementing & Acidizing of KS, LLC  
 810 E 7th, PO Box 92  
 Eureka, KS 67045



Date	Invoice #
8/31/2018	4104

Bill To	
Eagle Creek Corporation 8100 E 22nd St. North, Bldg 1500 Wichita, KS 67226	
Customer ID#	1213

Job Date	8/31/2018
Lease Information	
Hubbard Trust 1-16	
County	Rice
Foreman	RM

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C101	Cement Pump-Surface	1	890.00	890.00
C107	Pump Truck Mileage (one way)	100	4.20	420.00
C203	Pozmix Cement 60/40	200	13.40	2,680.00T
C205	Calcium Chloride	500	0.63	315.00T
C206	Gel Bentonite	340	0.21	71.40T
C209	Flo-Seal	50	2.35	117.50T
C108B	Ton Mileage-per mile (one way)	752.02	1.40	1,052.83
D101	Discount on Services		-118.15	-118.15
D102	Discount on Materials		-159.20	-159.20T

*We appreciate your business!*

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:  
 Elite Cementing & Acidizing of KS, LLC  
 PO Box 92  
 Eureka, KS 67045

<b>Subtotal</b>	\$5,269.38
<b>Sales Tax (7.5%)</b>	\$226.85
<b>Total</b>	\$5,496.23
Payments/Credits	\$0.00
<b>Balance Due</b>	\$5,496.23

0 E 7TH  
 O Box 92  
 REKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**  
 Ticket No. **4104**  
 Foreman Russell McElroy  
 Camp Eureka

15-159-22858-00-00

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
8-31-18	1213	Hubbard Trust 1-16	16	18	7	Rice	Ks
Customer Engle Creek Corporation			Unit #	Driver	Unit #	Driver	
Mailing Address 8100 E. 22 <sup>nd</sup> St. North Bldg. 1500			104	Alan Mead			
City Wichita			113	AB			
State KS		Zip Code 67226					

Job Type Surface Casing Hole Depth 304' Slurry Vol. 46 Bbl Tubing \_\_\_\_\_  
 Casing Depth 304' Hole Size 12 1/4 Slurry Wt. 14.6 # Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 8 5/8 Cement Left in Casing 20 Water Gal/SK 10 Other \_\_\_\_\_  
 Displacement 18 Bbl Displacement PSI 50 # Bump Plug to No Plug BPM 5

Remarks: Safety meeting + Job Procedure, Rig to 8 5/8 casing, Break circulation w/ 10 Bbl water, mix + pump 200 SK's 60/40 pozmix 3% CC 2%. Gel 1/4 Flocc = 46 Bbl slurry @ 14.6 # Displace w/ 18 Bbl water. 7 Bbl slurry to pit close casing in. wash out cellar for rig. Job complete, tear down.

Thank you  
 Russell McElroy

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C-101	1	Pump Charge		
C-101	100	Mileage	870.00	870.00
			3.95	420.00
C-203	200	ski 60/40 pozmix	13.40	
C-205	500 #	CaCl2 = 3%	.63	315.00
C-206	340 #	Gel = 2%	.21	71.40
C-209	50 #	Flocc = 1/4 # per SK	2.35	117.50
C-108	7.52	Ton Mileage on 175 SK's/100 mile ASBil	10320.80	1052.82
		Sub Total		5,546.72
		-5%		(277.34)
		Sales Tax		838.79
		<b>Total</b>		<b>6496.23</b>

Authorization Witnessed by Jay Title Tail Pusher Rig 3

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.



**WESLEY D. HANSEN Consulting Petroleum Geologist**

212 N. Market, Suite 257, Wichita, KS 67202  
Cellular: 316-772-6188  
email: whansen4651@sbcglobal.net

**KGS  
AAPG  
Kansas License #418**



**EAGLE CREEK CORPORATION**

**Scale 1:240 (5"=100') Imperial  
Measured Depth Log**

**Well Name:** Eagle Creek Corporation #1-16 Hubbard Trust  
**API:** 15-159-22858  
**Location:** 1750' FNL, 725' FWL of Section 16-18S-7W  
**License Number:** 30129  
**Spud Date:** 8-31-2018  
**Surface Coordinates:** 1750' FNL, 725' FWL of Section 16-18S-7W  
**Region:** Rice County, Kansas  
**Drilling Completed:** 9-5-2018

**Bottom Hole Vertical hole  
Coordinates:**  
**Ground Elevation (ft):** 1690'      **K.B. Elevation (ft):** 1698'  
**Logged Interval (ft):** 2650'      **To:** RTD      **Total Depth (ft):** 3460'  
**Formation:** Arbuckle at RTD  
**Type of Drilling Fluid:** Chemical - displaced at +/- 2500'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

**Company:** Eagle Creek Corporation  
**Address:** 8100 East 22nd Street North  
Building 1500, Suite A  
Wichita, KS 67226

**GEOLOGIST**

**Name:** Wesley D. Hansen  
**Company:** Wesley D. Hansen - Consulting Petroleum Geologist  
**Address:** 212 N. Market, Suite 257  
Wichita, KS 67202  
Cellular: 316-772-6188

## COMMENTS

Contractor: Southwind Drilling, Inc. Rig #3  
Pusher: Jay Krier

Surface Casing: 8 5/8" set at 304' w/200 sx  
Production Casing:

Mud by: MudCo - Rick Hughes was the engineer

DST's by: Eagle Testers - Gene Budig was the tester

Logs by: ELI - (DIL, CD-CN-PE, ML)

Deviation Surveys:

## BIT RECORD

Bit #	Size	MFG	Type	Depth Out	Footage Cut	Hours on bit
1	12 1/4"	retip	rerun	304'	304'	5 1/4
2	7 7/8"	Varel	HE-29	3460'	3156'	

## FORMATION TOPS AND STRUCTURAL COMPARISON

FORMATION	SAMPLE TOPS		LOG TOPS		COMPARISON WELL Imperial Oil Properties Miller #1 1687' KB 990' FNL, 990' FEL 16-18S-7W
	Depth	Datum	Depth	Datum	
	1698'	KB	1698'	KB	
Heebner Shale (DT)	2610'	-912			2593' -906
Brown Lime	2734'	-1036			2718' -1031
Lansing	2774'	-1076			2758' -1071
Stark Shale	3010'	-1312			absent
Hushpuckney Shale	3049'	-1351			3034' -1347
Odessa	3087'	-1389			3069' -1382
BKC	3108'	-1410			3092' -1405
Conglomerate Shale					3128' -1441
Congl. Chert/Sand					3150' -1463
Kinderhook Shale	3205'	-1507			3170' -1483
Misener Sand	Absent				absent
Maquoketa	3225'	-1527			3211' -1524
Viola	3298'	-1600			3289' -1602
Marshall Zone					3346' -1659
Simpson Shale					3361' -1674
Simpson Sand					3366' -1679
Arbuckle	3396'	-1698			3395' -1708
RTD	3460'	-1762			
LTD					

# DRILL STEM TESTS

DST No. 1 Conglomerate Sand

Interval: 3127' - 3186'

Times: 30-60-45-90

Recovery: 120' GIP; 2 inches clean oil on top; 95' watery mud with trace oil (1%o, 60m, 39w); 90' MCW (15m, 85w); chl 34,000

FP: 63-95/107-161 SIP: 895-898

HP: 1604-1556 BHT: 115 deg. F


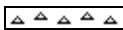





IFP: weak blow built to B.O.B. in 16 minutes

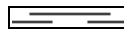
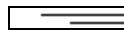





ISIP: no return blow








FFP: weak blow built to B.O.B. in 43 minutes





FSIP: no return blow

## ROCK TYPES

	Anhy
	Cht
	Coal
	Congl
	Gyp
	Lmst
	Salt

	Shale
	Shcol
	Shale red
	Sltst
	Ss
	Carb sh
	Dol

	Dtd
	Gry sh
	Sandy lms
	Shale green
	Sltstn
	Shlyslts
	Sltyslts

	Sdy dolo
	Silty dolo
	Shy dolo
	Shaly ls



### ACCESSORIES

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite

- Plant
- Strom
- Fuss
- Oomold

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr

- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

### OTHER SYMBOLS

#### INTERVALS

- Core
- Dst
- Dst

#### EVENTS

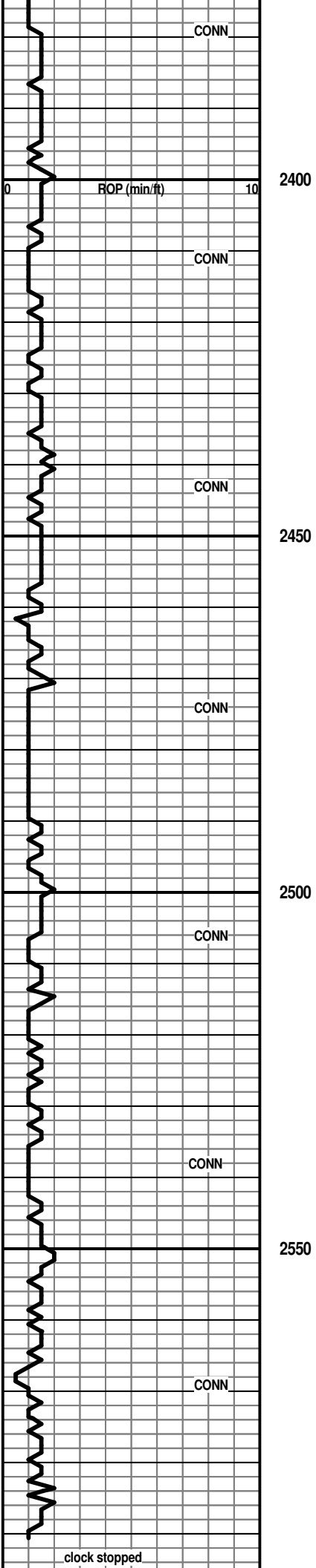
- Rft
- Dst top/base

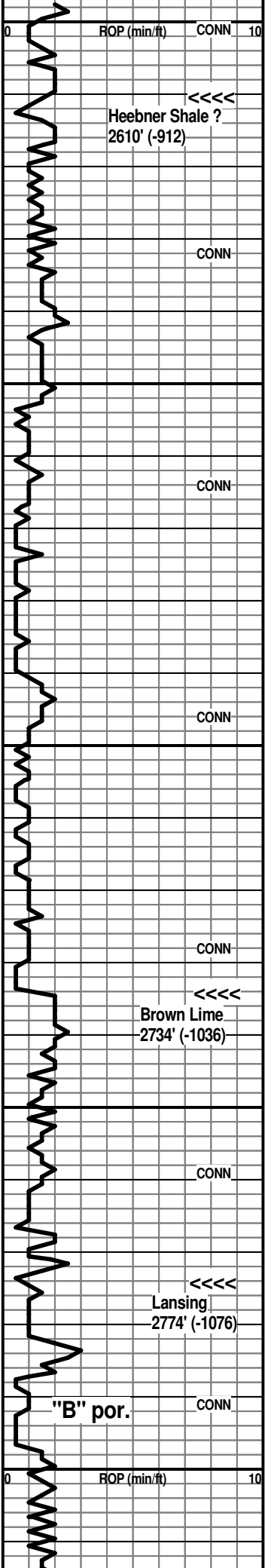
#### OIL SHOWS

- Even
- Spotted
- Quest.

- Trace
- Dead
- Gas show

Curve Track 1 ROP (min/ft)	Depth	Lithology	Geological Descriptions	Remarks
	<p>2300</p> <p>2350</p>	<p>CONN</p> <p>CONN</p>	<p style="font-size: small; text-align: center;">Oil Shows</p>	<p style="text-align: center;"><b>Report Depth and Activity</b></p> <p>8-31-2018 MIRU, spud            9-1 Drlg. @ 304'            9-2 Drlg. @ 1928'            9-3 Drlg. @ 2854'            9-4 DST #1 @ 3186'            9-5 RTD @ 3460' TOFL            9-6</p>





2600

2650

2700

2750

2800



50' spl - Ls: tan, offwhite mic-vfxln dense, subchalky; lt brn, lt to med gray cryptoxln; rare gray opq chert; Sh: lt gray, some black carbon.

60' spl - Ls: mix AA, trace fusulinids; Sh: mix AA, incr. %

70' spl - Ls: lt brn, gray, gray-brn cryptoxln, gran. IP, NVP; lesser offwhite, tan mic-vfxln dense; Sh: pred. lt gray, occ black

80' spl - Ls: mix AA, with sl influx dark gray, gray-brn cryptoxln; scatt. dark gray opq chert; Sh: mix AA, incr. black carbon. ?

90' spl - Ls: influx offwhite, tan micxln, subchalky to chalky

2700' spl - Ls: AA, with tan, lt gray vf-cryptoxln; Sh: lt to med gray; sl influx Siltst: lt brn, lt red, finely micac.

10' spl - Sh: incr. % AA; Siltst AA with sl influx Sst: lt gray vfg, micac. N.S.; Ls: still common tan, offwhite mic-fnxln, subchalky; sl influx med to dark brn cryptoxln

20' spl - Sst/Siltst AA; with Sh: vc gray to black; Ls: tan, lt brn, sl mottled vfxln

30' spl - mix pred. lt gray Siltst with gray shale; scatt. lt gray vf-fg Sst; very common Ls: mix mottled tan, brn, gray gran. to cryptoxln

40' spl - Ls: mix AA; common med to dark brn cryptoxln; some Siltst and Sst AA

50' spl - flood Sh: med to dark gray; Ls: med to dark brn AA; some mottled brn gran., foss. IP

60' spl - abund. shales AA; Ls: med to dark brn, dark gray, some mottled gran., NVP, N.S.

70' spl - pred. Sh: med to dark gray; Ls: AA; some tan vf-cryptoxln and tan, offwhite mic-vfxln dense

80' spl - Sh: pred. lt to med gray, lt gray silty, micac.; Ls: influx med to dark gray, tan, brn cryptoxln, foss. IP, NVP

90' spl - abund. Sh: lt to med gray, silty IP; Ls: pred. lt to med brn cryptoxln; other dark brn, dark gray cryptoxln, some sl gran., NVP

2800' spl - Ls/Sh mix AA

10' spl - Ls: sl influx tan, offwhite mic-vfxln dense; common shales and Ls's AA

20' spl - Ls: good influx tan, lt to med brn, some gray oolitic with fair to good oomoldic por.; some with subchalky matrix; some dark brn oolitic, sucrosic with exc. oomoldic por., N.S.

30' spl - Ls: influx tan, lt brn, lt gray vf-cryptoxln

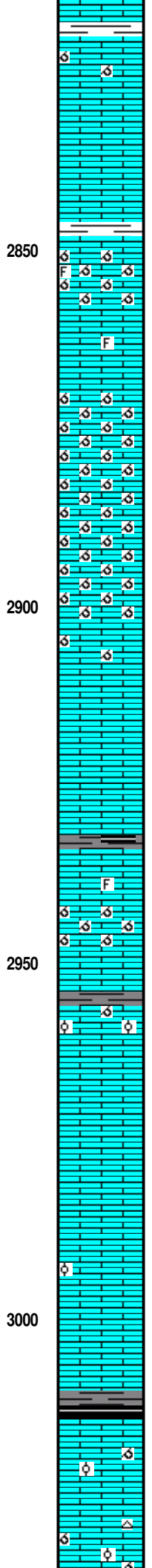
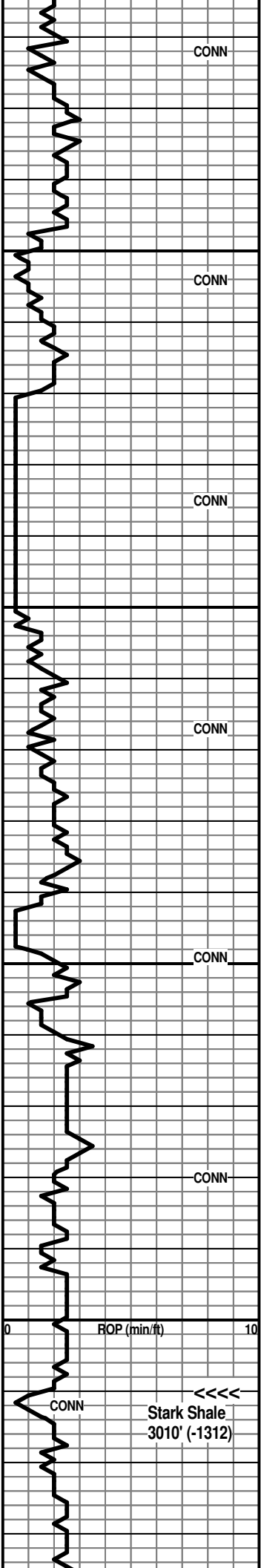
**Heebner Shale ? 2610' (-912)**

Start 10' wet and dry samples at 2650'

**Brown Lime 2734' (-1036)**

**Lansing 2774' (-1076)**

vis 60+ wt. 8.6



40' spl - Ls: lt to med brn, lt gray vf-cryptoxln; lesser offwhite subchalky; scatt. tan oolitic with oomoldic por., N.S.

50' spl - Ls: influx med gray, gray-brn cryptoxln; more offwhite subchalky, faint fleeting odor, N.S.; Sh: sl influx med gray, silty IP, black

60' spl - Ls mix AA

2850

70' to 90' spls - Ls: mottled lt gray, tan foss. with inter-particle por.; some tan oolitic with fair oomoldic por., N.S.

10' spl - influx offwhite micxln, subchalky to chalky with some ppt por.; mottled lt brn foss.; Sh: some med gray

20' spl - Ls: tan, offwhite oolitic/foss. with good oomoldic and intra-particle por., some with subchalky matrix, N.S.

2900

30' spl - Ls: mix tan, lt to med brn cryptoxln and offwhite, tan mic-vfxln, subchalky IP; persistant oolitic/oomoldic AA

40' spl - Ls: pred. lt to med brn, gray-brn cryptoxln; other subchalky AA

50' spl - Ls: various brn and gray-brn cryptoxln and tan, offwhite mic-vfxln dense

60' spl - Ls: pred. lt to med brn, med to dark gray, dark gray-brn cryptoxln; persistant oolitic, foss. IP with some oomoldic and inter-particle por.; Sh: good influx med to dark gray, some black

70' spl - Ls: influx tan, offwhite oolitic, subchalky IP, fair to good small oomoldic por.; fair influx offwhite subchalky to chalky, N.S.

2950

80' spl - Ls: tan, offwhite oolitic AA; lt to med brn, dark gray cryptoxln; Sh: lt to med gray, some black

90' spl - Ls: tan, lt to med brn cryptoxln, NVP; offwhite, tan mic-vfxln dense

3000'

3000' spl - Ls: various cryptoxln AA with med to dark gray cryptoxln; sl influx mottled gray/offwhite gran., NVP, N.S.; Sh: sl influx dark gray to black carbon.

10' spl - Ls: med to dark brn, dark gray cryptoxln to gran., some oolitic with spar matrix; scatt. offwhite, tan with ppt por., N.S.; Sh: med to dark gray, black

20' spl - Ls: mix various cryptoxln AA; some offwhite oolitic with poor-fair oomoldic por.; Sh: incr. % med to dark gray, black

30' spl - Sh: mix AA; Ls: mix AA

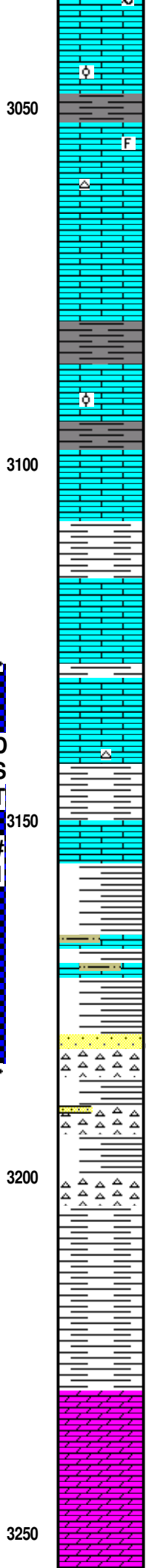
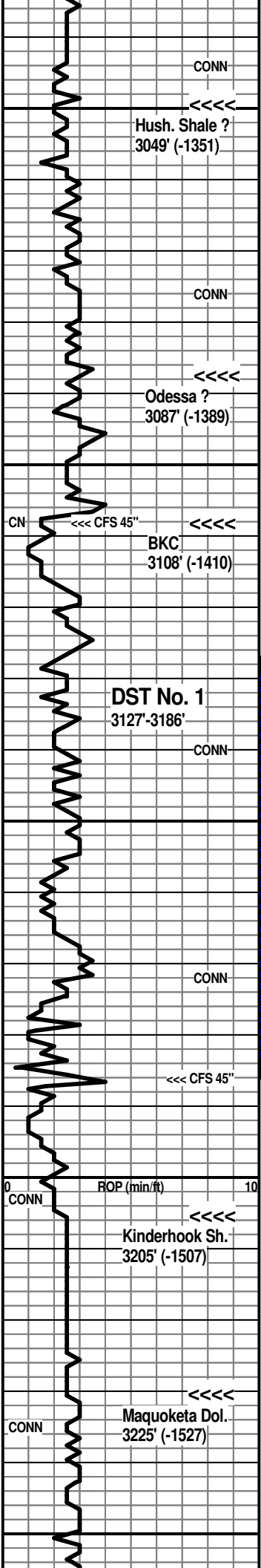
40' spl - Ls: various oolitic with poor to fair small oomoldic por.; offwhite, tan mic-vfxln dense; lesser tan, lt brn cryptoxln; Sh: AA

50' spl - Ls: influx med to dark brn, some dark gray cryptoxln; fairly common oolitic/oomoldic AA; occ offwhite opq chert

**Mud-Co Mud Check at 2933'**  
 8:45 AM on 9-3-2018  
 wt vis wl pH chl  
 8.9 43 11.2 11.0 5100  
 PV YP GelS lcm solids  
 12 11 7/32 1/2# 4.3%

**Stark Shale 3010' (-1312)**

Stark Shale  
 3010' (-1312)



60' spl - Ls: mix med brn cryptoxln and tan, offwhite vf-cryptoxln; scatt. tan, offwhite oolitic IP with some ppt and small oomoldic por., N.S.; Sh: med gray

70' spl - Sh: influx med to dark gray; Ls: med brn, med gray cryptoxln, foss. IP; tan, offwhite micxln subchalky

80' spl - Ls: tan, lt brn, lt gray vf-cryptoxln and tan, offwhite mic-vfxln dense; occ Chert: offwhite, tan oolitic IP; Sh: AA, some black carbon.

90' spl - Ls: mix tan, offwhite mic-vfxln dense and tan, lt brn vf-cryptoxln; some offwhite, tan oolitic with poor-NVP; Sh: med to dark gray, gray-green

3100' spl - Ls: mix AA; Sh: med to dark gray, gray-green

08' spl - Ls: sl influx med brn, med gray cryptoxln; some tan, lt brn partially oolitic with poor-NVP; Sh: AA

CFS 3108' spls - Sh: abund. med to dark gray; Ls: pred. various tan, lt brn cryptoxln and mottled gray/brn sl gran., NVP

30' spl - Sh: common med gray; Ls: tan, lt gray, lt brn cryptoxln; some mottled dark gray, sl gran.

40' spl - Ls: influx med brn cryptoxln; various dense AA

50' Ls: abund. various tan, offwhite, lt brn vf-cryptoxln and tan gran. poor-NVP; Sh: vc gray with red-brn, trace mottled dark yellow/gray

60' spl - Ls: abund. tan, lt brn vf-cryptoxln and tan, offwhite mic-vfxln dense; occ offwhite opq chert; Sh: pred. vc gray, occ red-brn

70' spl - Sh: vc gray, some red-brn; Ls: abund. various dense AA, more med brn cryptoxln

80' spl - Sh: influx vc gray, red-brn, lt green, dark red-maroon, gray-green

86' spl - Sh: multi-colored AA with influx dark red-brn, dark red-maroon, occ dark yellow; some gray micac. Siltst; Ls: common various dense, occ mottled dark brn/yellow gran.

CFS 3186' spls - Sh: multi-colored AA, some dark purple; Chert: multi-colored, dark yellow, brn, offwhite, mottled offwhite/orange; Sst: scatt. clusters lt gray fn-med grnd, rnd, poor-fair sorted, friable with vsl sfo, no odor, no fluor., pale milky cut

10' spl - Sh: multi-colored AA, some red-brn sandy; sl influx Chert: yellow, orange, offwhite mottled IP, opq; occ Sst AA

20' spl - Sh: multi-colored AA with good influx Chert: multi-colored AA, good influx offwhite weathered IP, N.S.; some sandy chert

30' spl - shales AA, Chert : multi-colored AA, mottled red, orange, yellow; sl influx pale gray very calcar. shale

40' spl - mix AA with fair influx pale gray very calcar. shale

50' spl - Dolo: influx offwhite, lt gray micxln; very shaly spls AA; much decr. chert

60' spl - Dolo: lt gray, offwhite mic-vfxln dense, N.S.

70' spl - Dolo AA

**Hush. Shale ? 3049' (-1351)**

**Odessa ? 3087' (-1389)**

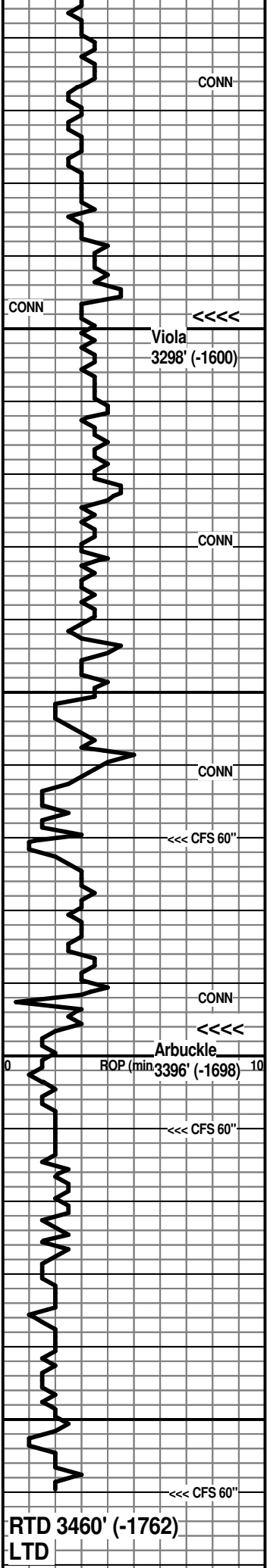
**BKC 3108' (-1410)**

DST No. 1 Conglomerate Sand  
 Interval: 3127' - 3186'  
 Times: 30-60-45-90  
 IFP: weak blow built to B.O.B. in 16 minutes  
 ISIP: no return blow  
 FFP: weak blow built to B.O.B. in 43 minutes  
 FSIP: no return blow  
 Recovery: 120' GIP; 2 inches clean oil on top; 95' watery mud with trace oil (1%o, 60m, 39w); 90' MCW (15m, 85w); chl 34,000  
 FP: 63-95/107-161 SIP: 895-898  
 HP: 1604-1556 BHT: 115 deg. F

**Mud-Co Mud Check at 3186'**  
 12:20 PM on 9-4-2018  
 wt vis wl pH chl  
 9.1 69 9.4 10.5 6200  
 PV YP GelS lcm solids  
 20 17 12/78 1/2# 5.7%

**Kinderhook Sh. 3205' (-1507)**

**Maquoketa Dol. 3225' (-1527)**



80' spl - Dolo: mix AA, more vfxln

90' spl - Dolo: offwhite, lt gray mic-vfxln dense AA

3300' spl - Dolo: AA

10' spl - Dolo: offwhite, lt gray mic-vfxln dense AA; Ls: vsf influx tan/offwhite gran. and offwhite micxln, NVP, N.S.

20' spl - Ls: mix sl mottled tan/lt gray gran. and offwhite micxln, subchalky; lesser lt gray cryptoxln

30' spl - Ls: mix tan gran. and lesser offwhite micxln, subchalky

40' spl - Ls: pred. tan, lt gray gran., poor-NVP, N.S.

50' spl - Ls: various tan, lt brn, lt gray gran. poor-NVP; occ lt brn fn gran. sandy; scatt. blue-gray chert

60' spl - Ls: various gran. AA, incr. sandy; sl influx med brn cryptoxln

70' spl - pred. Ls's AA; sl influx Dolo: lt brn fn-vfxln, sucrosic IP, lt gray fnxln, poor por.

CFS 3370' spls - Dolo: lt to med brn vf-cryptoxln; some Sst: lt gray vf-fg, N.S.; Sh: med gray

90' spl - Sh: med gray; common various dense Ls's AA; Sst: offwhite vfg and gray fg, poor-NVP, N.S.

3400' spl - flood med gray, splintery IP, finely silty IP

10' spl - Sh: AA, scatt. pyrite and shaly pyrite

CFS 3410' 30" spl - pred. shale AA; scatt. Sst: and pyrite; Dolo: tan fnxln, N.S.

60" spl - Dolo: influx tan fnxln with some interxln por., N.S.

30' spl - Dolo: tan fn-medxln with some fair interxln por., N.S.

40' spl - Dolo: more lt brn fn-medxln, scatt. vug. por., scatt. offwhite opq chert

50' spl - Dolo: mix lt to med brn more vf-cryptoxln

60' spl - Dolo: tan, lt brn vf-cryptoxln; some fnxln with interxln por.

CFS 3460' spls - Dolo: lt to med brn vf-cryptoxln and tan fn-vfxln with interxln por., N.S.

**Viola 3298' (-1600)**

sloughing shales

**Arbuckle 3396' (-1698)**

abundant sloughing shales

RTD reached at 5:10 AM on 9-5-2018  
 CFS 60" - short trip - CTCH 75" - drop survey  
 - TOFL

				
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