

Morning Driller: Shawn Jensen
 Gas Detector: Bluestem Environmental
 Engineer: Keith Reavis
 Unit: 5279
 Operational By: 1900'

Logging Company: ELI
 Engineer: Jason Cappellucci
 Logs Ran: CDNL DIL MEL SONIC
 Testing Company: Eagle Testers
 Tester: Gene Budig

Deviation Survey	
Depth	Survey
392'	1 deg
3225'	1/2 deg
3575'	1/2 deg

Pipe Strap	
Depth	Pipe Strap
3225'	1.01 LTB

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4	JZ	RR		0	392	392	3.25
2	7 7/8	JZ	RR		392	3225	2833	53.25
3	7 7/8	JZ	RR		3225	3575	350	12.5

Surface Casing
 Ran 9 joints of new 24# 8 5/8 casing, tally @ 379, set @ 392. Used 250 sacks of 60/40 poz, 3%cc, 2% gel, cement did circulate, by Basic (ticket 18390), plug down @ 645 am on 10.30.19.

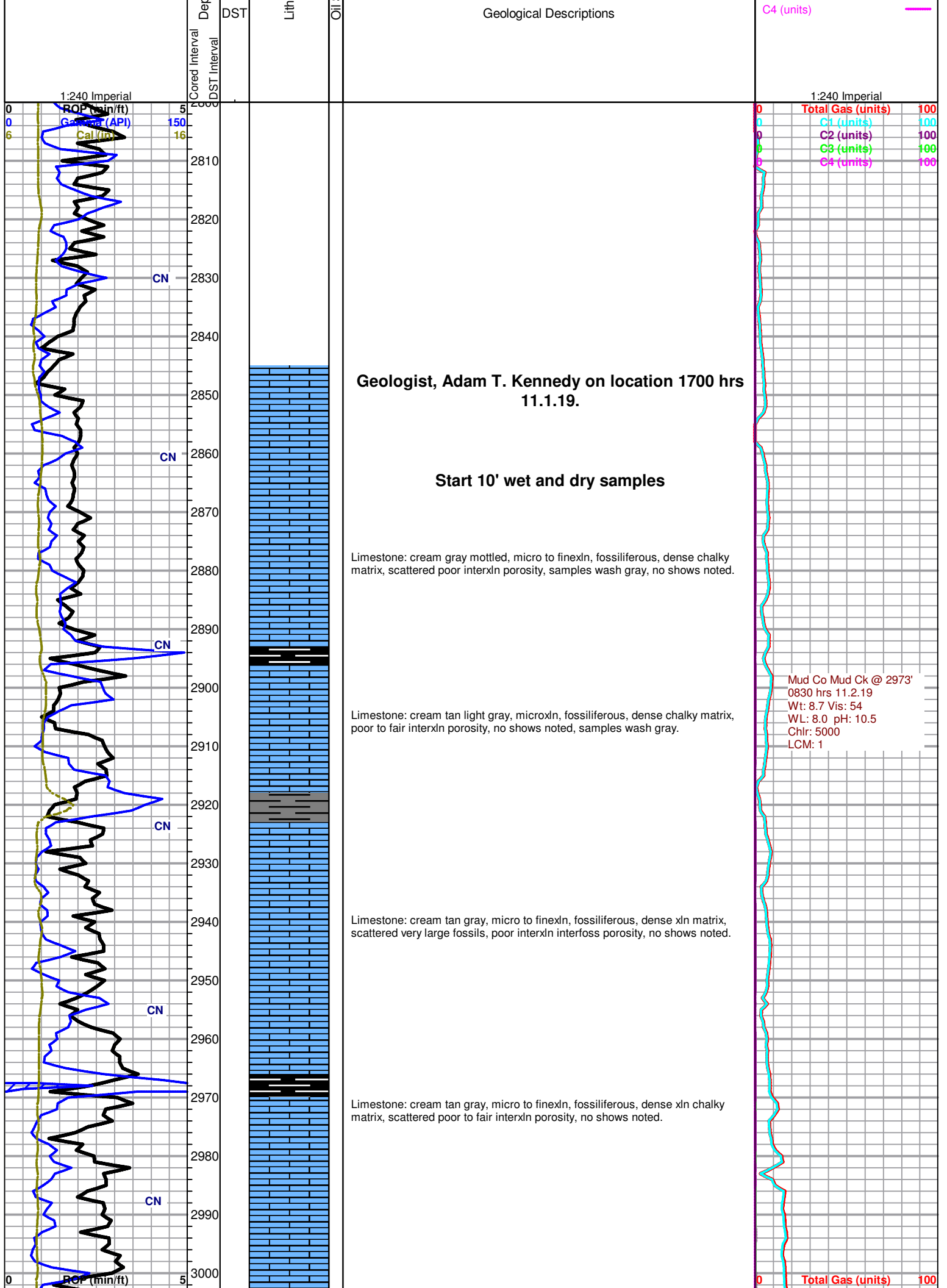
Plugging Info
 Plugged well with 235 sacks of 60/40 poz 4% gel, 1/4 flo seal, 1st plug @ 3457', with 50 sacks, 2nd plug @ 750 w/ 50 sacks 3rd plug @ 450' w/ 80 sacks, 4th plug @ 40' w/ 10 sacks. 30 sacks for rathole, 15 sacks for mousehole, cemented by Quality ticket # 1821, job complete @ 1230 am 11.6.19.

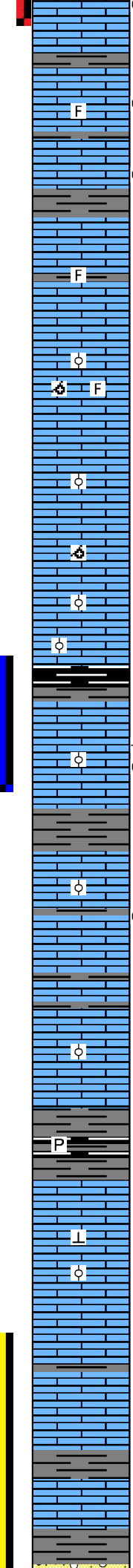
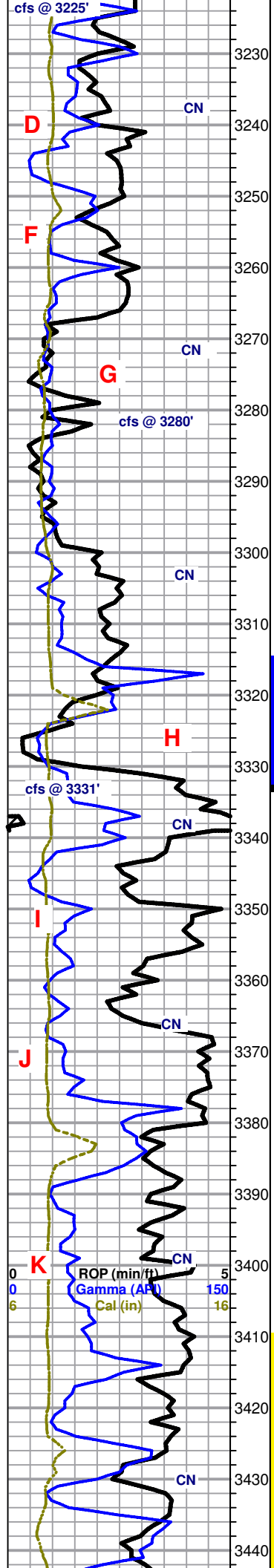
DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
11.2.19	2941'	Displace mud system @ 2500'. Geologist Adam T. Kennedy on location 11.1.19 @ 1700 hrs. Drilling ahead through Topeka. WOB: 32k RPM: 75 PP: 720 SPM: 60 DMC: \$561.01 CMC: \$4,112.34
11.3.19	3225'	Drilling and connections Topeka, Heebner, Lansing. Short trip 20 stands @ 3178'. CTCH resume drilling Lansing A and B. CFS @ 3225'. Shows warrant test, TOH for DST #1. Short trip 15 stands. TOH for test, conduct test. Currently TOH to resume drilling. WOB: 32k RPM: 75 PP: 720 SPM: 60 DMC: \$0.00 CMC: 4,112.34
11.4.19	3390'	Drilling and connections LKC, CFS @ 3331'. Shows warrant test, TOH for DST #2. Conduct test. TIH to resume drilling, drilling and connections lower Lansing. WOB: 32k RPM: 75 PP: 720 SPM: 60 DMC: \$845.70 CMC: 4,958.04
11.5.19	3575'	Drilling and connections Lansing through Arbuckle. CFS @ 3470', 3478', 3486', 3494'. Shows warrant test, TOH for DST #3. Conduct test, TIH resume drilling Arbuckle. CFS @ 3504', 3514'. Rathole ahead to RTD of 3575'. RTD Reached 0900 hrs 11.6.19. Rig up loggers, logging complete 1700 hrs, orders received to plug well @ 1730 hours 11.6.19. Geologist off location. WOB: 32k RPM: 75 PP: 720 SPM: 60 DMC: \$369.81 CMC: \$6,178.67

WELL COMPARISON SHEET

Drilling Well				Comparison Well			
Edison Operating - Kuhn #1-17 Sec. 17 - T19S - R12W 1829' FSL & 1380' FEL 1874 GL 1884 KB				Murfin Drilling Company - Traux #1 Sec. 17 - T19S - R12W SW NW SE Dry 1874 KB			
				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log





Limestone: cream tan gray, micro to finexln, fossiliferous, dense xln matrix, scattered poor pinpoint porosity, mottled, scattered light brown oil stain in porosity, faint odor, no free oil in tray, pale yellow fl.

Limestone: cream tan gray, micro to finexln, trace fossils, dense xln matrix, scattered poor to fair interxln vuggy porosity, scattered secondary crystals, scattered dark brown/black oil stain, slight free oil under lamp, faint odor.

Limestone: cream tan light brown mottled, micro to finexln, fossiliferous, dense chalky matrix, poor visible porosity, scattered trace dark brown stain in porosity, samples wash gray, no odor or fl.

Limestone: white cream tan, micro to finexln, fossiliferous oolitic, dense xln matrix, scattered poor to fair interxln porosity, no shows noted.

cfs Limestone: cream tan light brown, micro to finexln, fossiliferous oolitic, dense xln matrix, scattered good interxln vuggy porosity, scattered sucrosic texture, scattered trace light brown oil, faint odor.

Limestone: cream tan, micro to finexln fossiliferous oolitic, friable xln matrix, oomoldic, abundant good to vgood vuggy oomoldic porosity, abundant secondary rexln, no odor or shows noted.

Limestone: cream tan, micro to finexln, fossiliferous oolitic, dense xln oomoldic matrix, scattered good interxln oomoldic porosity, abundant rexln, no shows noted.

Muncie Creek 3316' (-1432)

cfs Limestone: cream tan, micro to finexln, fossiliferous oolitic, friable xln matrix, excellent vuggy interxln porosity, abundant golden brown stain and free oil / gas, abundant rexln, strong odor, even yellowish fl.

Limestone: white cream tan, micro to finexln, fossiliferous oolitic, dense xln matrix, scattered poor to fair interxln porosity, scattered light brown stain in porosity, no free oil shows, faint odor.

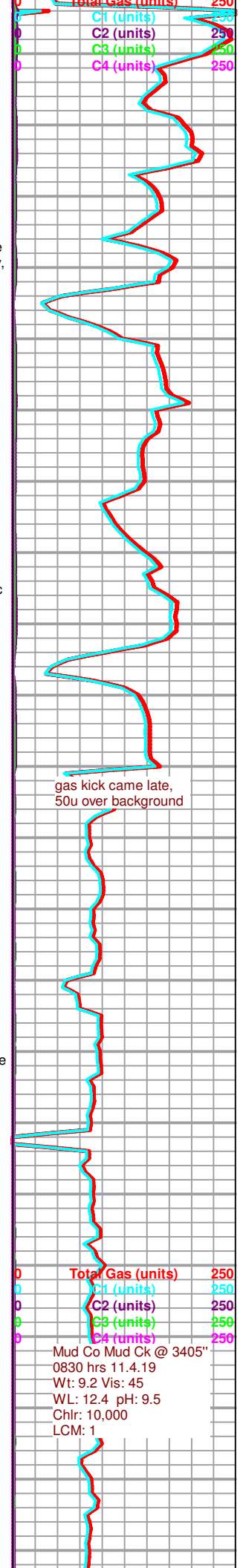
Stark 3380' (-1496)

Shale: gray dark gray black, dense fissile waxy, pyritic, trace carbonaceous.

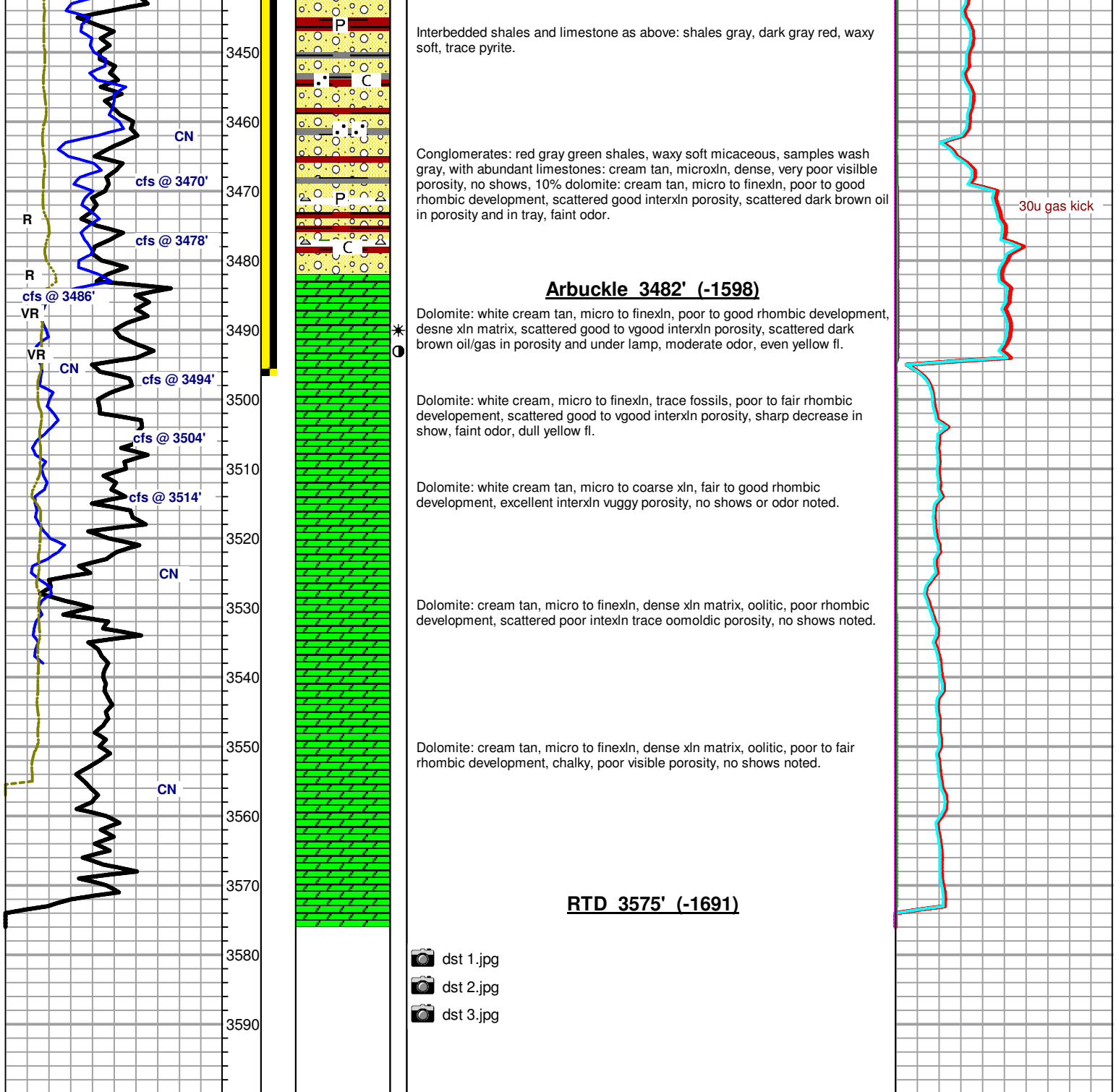
Limestone: cream tan light brown, micro to finexln, fossiliferous trace oolitic, dense xln calcareous matrix, poor visible porosity, no shows noted.

Base Kansas City 3414' (-1530)

Limestone: cream tan, micro to finexln, dense chalky matrix, scattered poor interxln porosity, no shows noted.



Mud Co Mud Ck @ 3405'
 0830 hrs 11.4.19
 Wt: 9.2 Vis: 45
 WL: 12.4 pH: 9.5
 Chr: 10,000
 LCM: 1



 <p>Eagle Testers Great Bend, Kansas</p>	<h2 style="margin: 0;">DRILL STEM TEST REPORT</h2> <p>Edison Operating Company LLC</p> <p>8100 East 22nd Street North Building 1900 Wichita, Kansas 667226 ATTN: Adam Kennedy</p>	<p>17-19s-12w Barton</p> <p>Kuhn #1-17</p> <p>Job Ticket: 01385 DST#: 1</p> <p>Test Start: 2019.11.03 @ 02:02:00</p>
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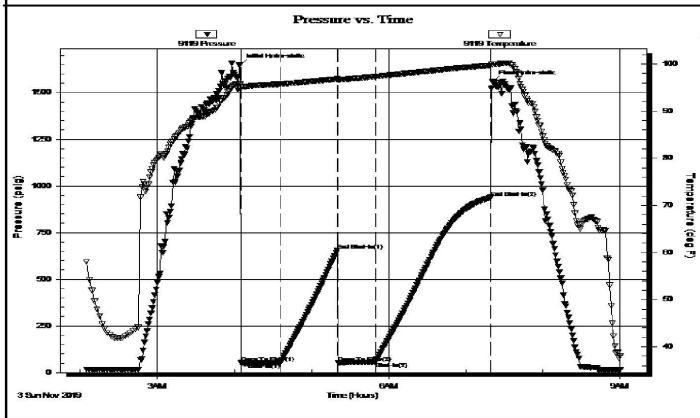
GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Gene Budig
Time Tool Opened: 03:05:00	Unit No: 1
Time Test Ended: 08:01:00	Reference Elevations: 1882.00 ft (KB)
Interval: 3178.00 ft (KB) To 3225.00 ft (KB) (TVD)	1874.00 ft (CF)
Total Depth: 3225.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.78 inches Hole Condition: Fair	

Serial #: 9119 Inside

Press@RunDepth: 938.26 psig @ 3219.84 ft (KB)	Capacity: 5000.00 psig
Start Date: 2019.11.03	End Date: 2019.11.03
Start Time: 02:02:00	End Time: 09:00:30
	Last Calib.: 2019.11.03
	Time On Btm: 2019.11.03 @ 04:04:30
	Time Off Btm: 2019.11.03 @ 07:21:00

TEST COMMENT: 1st Opening 30 Minutes weak building blow built to the bottom of a 5 gallon bucket in 14 minutes
 1st Shut-In 45 Minutes no blow back
 2nd Opening 30 Minutes strong blow bob imediately bled off bob in 9 minutes
 2nd Shut-In 90 Minutes blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.64	95.75	Initial Hydro-static
1	53.16	95.25	Open To Flow (1)
32	52.88	95.77	Shut-In(1)
76	654.29	96.86	End Shut-In(1)
76	53.88	96.72	Open To Flow (2)
106	58.42	97.35	Shut-In(2)
195	938.26	99.73	End Shut-In(2)
197	1557.31	99.94	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	1050 feet of gas in the pipe	0.00
30.00	oil cut mud 80%Mud 20% Oil	0.42

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

 <p>Eagle Testers Great Bend, Kansas</p>	DRILL STEM TEST REPORT	
	Edison Operating Company LLC 8100 East 22nd Street North Building 1900 Wichita, Kansas 667226 ATTN: Adam Kennedy	17-19s-12w Barton Kuhn #1-17 Job Ticket: 01386 DST#:2 Test Start: 2019.11.03 @ 17:55:00

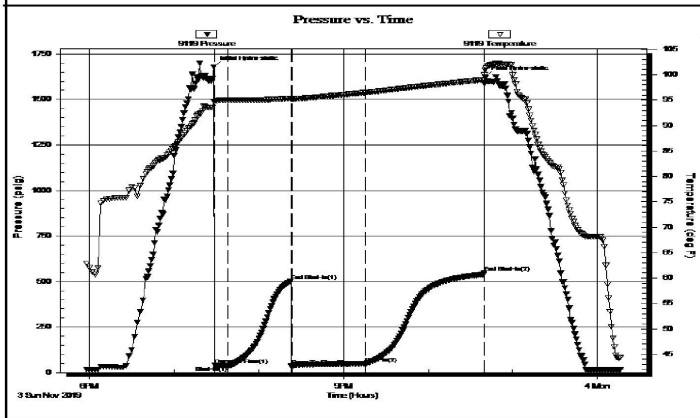
GENERAL INFORMATION:

Formation: Kansas City "H"	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Gene Budig
Time Tool Opened: 19:28:00	Unit No: 1
Time Test Ended:	Reference Elevations: 1882.00 ft (KB)
Interval: 3314.00 ft (KB) To 3331.00 ft (KB) (TVD)	1874.00 ft (CF)
Total Depth: 3331.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.78 inches Hole Condition: Fair	

Serial #: 9119 Inside

Press@RunDepth: 550.24 psig @ 3326.00 ft (KB)	Capacity: 5000.00 psig
Start Date: 2019.11.03	End Date: 2019.11.04
Start Time: 17:55:00	End Time: 00:16:30
	Last Calib.: 2019.11.04
	Time On Btm: 2019.11.03 @ 19:28:00
	Time Off Btm: 2019.11.03 @ 22:40:30

TEST COMMENT: 1st Opening 10 Minutes weak blow built to 4 inches into the water
 1st Shut-In 45 Minutes no blow back
 2nd Opening 45 Minutes weak steady 1 1/2 inch blow
 2nd Shut-In 90 Minutes no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.08	94.76	Initial Hydro-static
1	39.25	94.59	Open To Flow (1)
11	37.71	95.07	Shut-In(1)
55	501.93	95.37	End Shut-In(1)
56	38.40	95.27	Open To Flow (2)
108	48.77	96.50	Shut-In(2)
192	550.24	98.98	End Shut-In(2)
193	1622.52	100.94	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	oil cut mud 10% Oil 90%Mud	

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

 <p>Eagle Testers Great Bend, Kansas</p>	DRILL STEM TEST REPORT	
	Edison Operating Company LLC 8100 East 22nd Street North Building 1900 Wichita, Kansas 667226 ATTN: Adam Kennedy	17-19s-12w Barton Kuhn #1-17 Job Ticket: 01387 DST#: 3 Test Start: 2019.11.04 @ 19:09:00

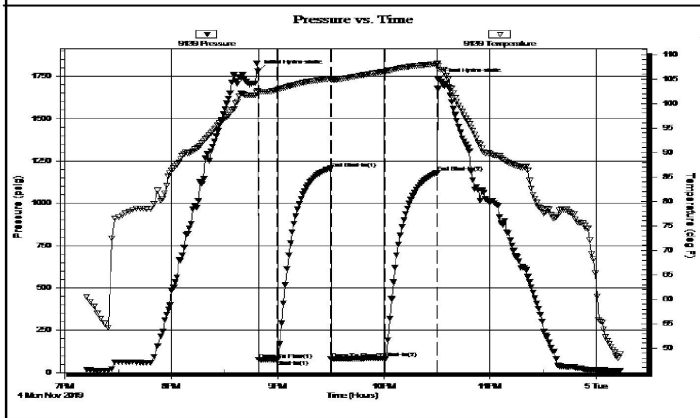
GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Gene Budig
Time Tool Opened: 20:49:00	Unit No: 1
Time Test Ended: 00:13:00	Reference Elevations: 1882.00 ft (KB)
Interval: 3410.00 ft (KB) To 3494.00 ft (KB) (TVD)	1874.00 ft (CF)
Total Depth: 3494.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.78 inches Hole Condition: Fair	

Serial #: 9139 Outside

Press@RunDepth: 1180.13 psig @ 3489.06 ft (KB)	Capacity: 5000.00 psig
Start Date: 2019.11.04 End Date: 2019.11.05	Last Calib.: 2019.11.05
Start Time: 19:09:14 End Time: 00:13:14	Time On Btm: 2019.11.04 @ 20:48:44
	Time Off Btm: 2019.11.04 @ 22:30:44

TEST COMMENT: 1st Opening 10 minutes weak blow for 8 minutes and died
 1st Shuyt-in 30 Minurwa
 2nd Opening 30 Minutes no blow
 2nd Shut-In 30 Minutes



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.74	102.61	Initial Hydro-static
1	75.79	102.41	Open To Flow (1)
11	78.12	102.77	Shut-In(1)
41	1206.41	105.09	End Shut-In(1)
42	80.07	104.85	Open To Flow (2)
72	84.96	106.56	Shut-In(2)
101	1180.13	108.09	End Shut-In(2)
102	1731.08	107.70	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud	0.42

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