

**EDISON OPERATING COMPANY_{LLC}**

Scale 1:240 Imperial

Well Name: Kuhn #1-24
Surface Location: Sec. 24 - T22S - R14W
Bottom Location:
API: 15-185-23870-0000
License Number: 34434
Spud Date: 5/2/2014 Time: 3:00 PM
Region: Stafford County, KS
Drilling Completed: 5/11/2014 Time: 10:20 AM
Surface Coordinates: 550' FNL & 660' FWL
Bottom Hole Coordinates:
Ground Elevation: 1923.00ft
K.B. Elevation: 1928.00ft
Logged Interval: 2900.00ft To: 3923.00ft
Total Depth: 3923.00ft
Formation: Arbuckle, Lansing
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Edison Operating Company, LLC
Address: 8100 E 22nd St. N
Building 1900
Wichita, KS 67226
Contact Geologist: David Withrow
Contact Phone Nbr: 316-201-1744
Well Name: Kuhn #1-24
Location: Sec. 24 - T22S - R14W API: 15-185-23870-0000
Pool: Field: Oscar
State: Kansas Country: USA

LOGGED BY

Company: Valhalla Exploration, LLC
Address: 8100 E 22nd St. N
Building 1800-2
Wichita, KS 67226
Phone Nbr: 316.210.1295
Logged By: Geologist Name: Adam G. Nighswonger

REMARKS

After review of the geologic log, sample descriptions, positive DST results and open hole electric logs, the decision was made by operator to run 5 1/2" production casing for further evaluation of the Arbuckle and Lansing sections of the Kuhn #1-24.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Adam G. Nighswonger

GENERAL INFORMATION**Service Companies**

Drilling Contractor: Mallard Drilling - Rig #2

Tool Pusher: Lavon Urban

Daylight Driller: Kyle Stout

Evening Driller: John Brown

Drilling Fluid: Mud-Co/Service Mud

Engineers: Jason Whiting, Brad Bortz

Logging Company: Nabors Completion Services

Evening Driller: John Brown
Morning Driller: Kent Urban
Relief: Michael Kramer

Logging Company: Nabors Completion Service
Engineer: Jeff Luebbers
Logs Ran: DIL, DUCP, MEL, BHCS

Gas Detector: Bluestem Environmental
Engineer: Sidney Edelbrock
Unit: 0258
Operational By: 2500'

Testing Company: Trilobite Testing, Inc.
Tester: Matt Smith

Deviation Survey	
Depth	Survey
454'	N/A
3616'	3/4°
RTD 3923'	1/4°

Pipe Strap	
Depth	Pipe Strap
3616'	1.11 long to board

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	Smith	RT	RR	0'	454'	454	8 1/2
2	7 7/8"	Smith	F27	RR	454'	2888'	2434	89
3	7 7/8"	Smith	F27	RR	2888'	3923'	1035	

Surface Casing	
5/2/2014	Ran 10 joints of new 23#, 8 5/8" surface casing, tally @ 444', set @ 454'. Used 150 sacks 60/40 Poz, 3% cc 2% gel; cement did not circulate. 1" backside with 150 sacks Class A, 3% cc 2% gel; cemented to surface, by Allied; Plug down @ 0300 hrs 05.03.14.

Production Casing	
5/12/2014	Ran 91 joints of new 15.5#, 5 1/2" production casing, tally @ 3910', set @ 3920'. Used 150 sacks AA-2, 30 sacks 60/40 Poz for rat hole, 20 sacks for mouse hole, cement did circulate, by Basic (#10421); plug down @ 0800 hrs 05.12.14.

DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
5/7/2014	3515'	Drilling and connections Topeka. Geologist Adam G. Nighswonger on location 1330 hrs 05.06.14 drilling @ 3180'. Drilling and connections Topeka, Heebner, Toronto, Douglas, and into Brown Lime. Stop @ 3435' and CTCH; conduct short trip for 20 stands. Back to bottom and CTCH; resume drilling and connections Brown Lime and into upper Lansing zones. Made 533' in past 24 hrs of operations. DMC: \$817.55 CMC: \$6,036.40
5/8/2014	3637'	Drilling and connections Lansing zones. Stop to CFS @ 3570' (LKC 'H') & 3616' (LKC 'J'). Shows in 'J' zone warrant test. CTCH, drop survey and strap out for DST #1. Conduct test, test successful; recovered 62' gassy oily mud cut water. TIH with bit and CTCH; resume drilling 0430 hrs 05.08.14. Drilling lower Lansing zones. Stop to CFS @ 3637' (LKC 'K'). Shows warrant test. TOH for DST #2. Made 122' in past 24 hrs of operations. DMC: \$506.90 CMC: \$6,543.30
5/9/2014	3748'	TOH for DST #2. Conduct test, test successful; recovered 124' clean oil and 816' muddy gassy oil, trace water, with 3288' gas in pipe. Back to bottom and CTCH; resume drilling 1930 hrs 05.08.14. Drilling and connections lower Lansing zones, basal Pennsylvanian and into Viola. Stop to CFS @ 3748' (VIOL). Shows warrant test. TOH for DST #3. Made 111' in past 24 hrs of operations. DMC: \$101.00 CMC: \$6,543.30
5/10/2014	3813'	Conduct DST #3, tested tight; recovered 20' drilling mud. Back to bottom and CTCH; resume drilling 1600 hrs 05.09.14. Drilling and connections Simpson and into Arbuckle. Stop to CFS @ 3808', 3811', & 3813' (ARB). Shows warrant test. CTCH and TOH for DST #4. Conduct test. Made 65' in past 24 hrs of operations. DMC: \$722.60 CMC: \$7,366.90
5/11/2014	3823'	DST #4 - recovered 279' clean oil and 372' muddy gassy oil, trace water, with 806' gas in pipe. Down for drilling line repairs; back to bottom and CTCH. Resume drilling 1645 hrs 05.10.14. Drilling Arbuckle. Stop to CFS @ 3823' (ARB). Shows warrant test. CTCH and TOH for DST #5. Conduct test, test successful; recovered 93' clean oil, 806' muddy oily water, and 248' muddy water with 186' gas in pipe. Back to bottom and CTCH. Made 10' in past 24 hrs of operations. DMC: \$1,396.05 CMC: \$8,762.95

5/12/2014

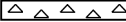
RTD 3925'

Resume drilling 0730 hrs 05.11.14. Drilling and connections Arbuckle. Rotary total depth 3923' reached 1020 hrs 05.11.14. CTCH, drop survey and TOH for logs. Commence open hole logging operations 1430 hrs. Geologist off location 1700 hrs; logging completed 1900 hrs.
Made 102' in past 24 hrs of operations.
DMC: \$0.00 CMC: \$8,762.95

WELL COMPARISON SHEET

Drilling Well					Comparison Well				Comparison Well				Comparison Well			
Edison Operating Co - Kuhn #1-24 Sec. 24 - T22S - R14W 550' FNL & 660' FWL					Mull Drilling - Hullman #1-13 Sec. 13 - T22S - R14W 1313' FSL & 169' FWL				Magnolia Petroleum - Gore #2 Sec. 23 - T22S - R14W C NE SE NE				Cities Service Oil - Eggebrecht #4 Sec. 24 - T22S - R14W C SW NW NW			
1928 KB					Oil - Arbuckle 1930 KB				Oil - Arb. OH 1932 KB				Dry Hole 1927 DF			
					Structural Relationship				Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Sample	Sub-Sea	Sample	Log
Topeka	2924	-996	2924	-996	Not Called				2956	-1024	28	28	2982	-1055	59	59
Heebner Shale	3299	-1371	3300	-1372	3294	-1364	-7	-8	3302	-1370	-1	-2	3303	-1376	5	4
Toronto Lms.	3319	-1391	3319	-1391	3313	-1383	-8	-8	3324	-1392	1	1				
Douglas	3335	-1407	3338	-1410	3328	-1398	-9	-12	3338	-1406	-1	-4	3323	-1396	-11	-14
Brown Lms.	3428	-1500	3429	-1501	3421	-1491	-9	-10	3435	-1503	3	2				
Lansing-K.C.	3441	-1513	3441	-1513	3435	-1505	-8	-8	3445	-1513	0	0	3448	-1521	8	8
LKC 'B'	3457	-1529	3458	-1530	3451	-1521	-8	-9	3465	-1533	4	3				
LKC 'F'	3509	-1581	3510	-1582	3500	-1570	-11	-12	3515	-1583	2	1				
Muncie Creek Sh.	3555	-1627	3552	-1624	3546	-1616	-11	-8	3559	-1627	0	3				
LKC 'H'	3562	-1634	3560	-1632	3554	-1624	-10	-8	3567	-1635	1	3				
LKC 'I'	3580	-1652	3577	-1649	3571	-1641	-11	-8	3582	-1650	-2	1				
LKC 'J'	3595	-1667	3592	-1664	3588	-1658	-9	-6	3603	-1671	4	7				
Stark Shale	3617	-1689	3613	-1685	3610	-1680	-9	-5	3620	-1688	-1	3				
LKC 'K'	3622	-1694	3621	-1693	3614	-1684	-10	-9	3626	-1694	0	1				
Base K.C.	3665	-1737	3657	-1729	3650	-1720	-17	-9	3663	-1731	-6	2				
Viola	3718	-1790	3716	-1788	3701	-1771	-19	-17	3720	-1788	-2	0	3737	-1810	20	22
Simpson	3749	-1821	3748	-1820	3728	-1798	-23	-22	3753	-1821	0	1	3774	-1847	26	27
Simpson Sds.	3770	-1842	3770	-1842	3740	-1810	-32	-32	Not Present (?)							
Arbuckle	3801	-1873	3799	-1871	3777	-1847	-26	-24	3805	-1873	0	2	3814	-1887	14	16
Total Depth	3923	-1995	3920	-1992	3900	-1970			3825	-1893			3845	-1918		

ROCK TYPES

 Cht	 LMST2	 SHALE CAR	 SHALE RED
 DOL2	 LMST3	 SHALE GRN	 SHALE TEAL
 LMST1	 Ss	 SHALE GRA	 SHALE YEL

ACCESSORIES

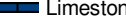
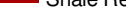
MINERAL

▲ Chert, dark
 ▲ Dolomitic
 P Pyrite
 * Sandy
 ** Silty
 △ Chert White

FOSSIL

∩ Bioclastic or Fragmental
 ☉ Cephalopod
 F Fossils < 20%
 ⊕ Oolite
 ⊕ Oomoldic

STRINGER

 Limestone1
 Shale Gray
 Shale Red

TEXTURE

C Chalky
 CX Cryptocrystalline

OTHER SYMBOLS

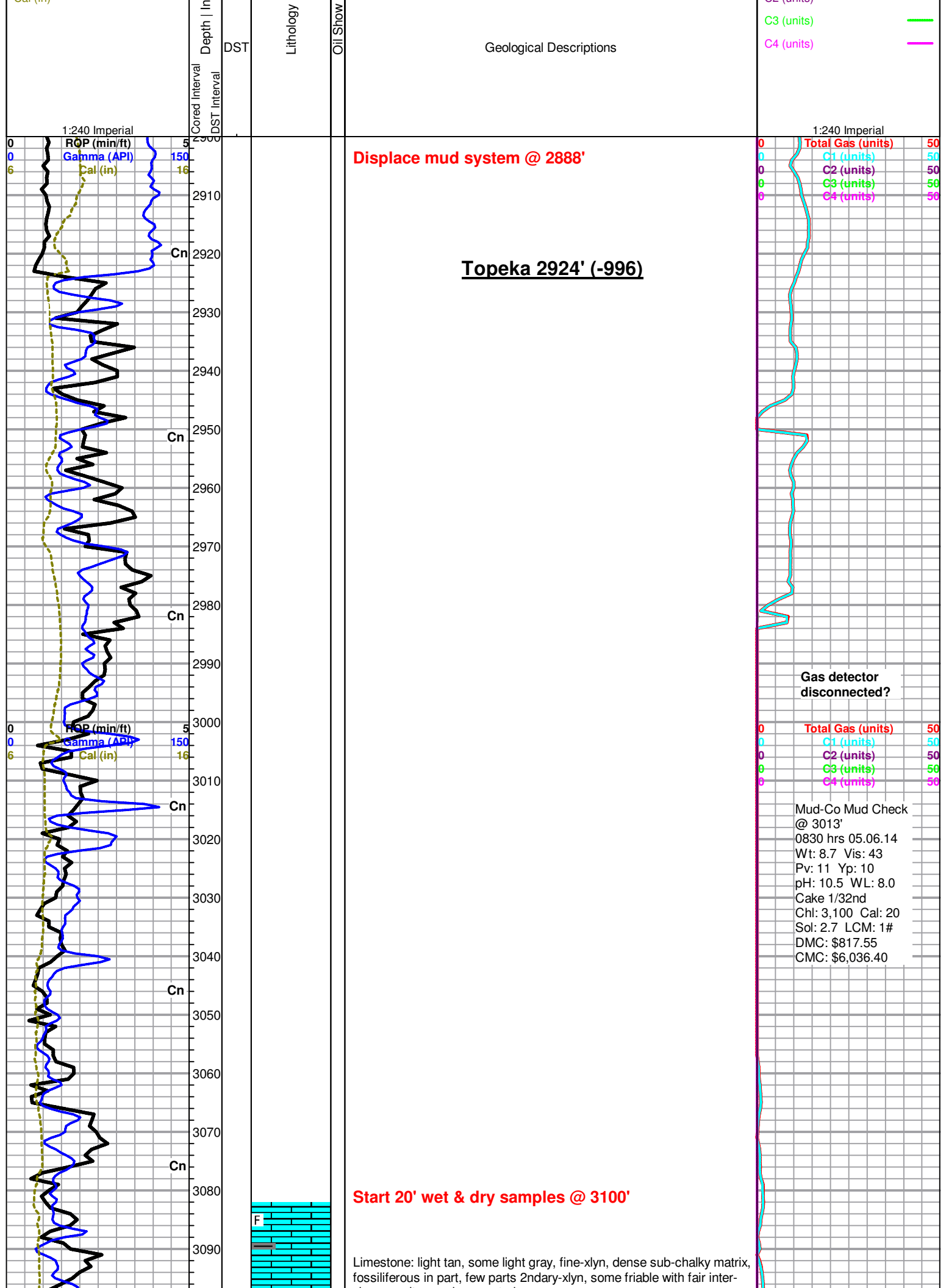
MISC

 Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

DST

 DST1
 DST2
 Core
 tail pipe

Curve Track #1					TG, C1 - C5			
ROP (min/ft)		Intervals			Total Gas (units)			
Gamma (API)					C1 (units)			
Cal (in)					C2 (units)			



xlyn porosity, no shows noted

King Hill Shale 3110' (-1182)

Shale: black carb, some light gray and red, blocky and hard, fair show of gas on break, with interbedded Limestone: off white and tan, micro to fine-xlyn, hard dense matrix, largely fossiliferous in part, poor visible porosity, no shows noted

Limestone: cream white and light gray, micro-xlyn, friable chalky matrix, few parts fossiliferous, poor inter-xlyn porosity, no shows noted

Limestone: as above, with much Shale: light gray to gray, some red, mostly soft, blocky, few parts silty

Geologist on location 1330 hrs 05.06.14

Queen Hill Shale 3192' (-1264)

Shale: black carb, some dark gray, blocky and hard, some fissile, fair show of gas on break, with interbedded Limestone: light gray and off white, fine-xlyn, dense sub-grainy matrix, fossiliferous in part, poor inter-xlyn porosity, no shows noted

Limestone: cream white and light tan, micro to fine-xlyn, dense sub-chalky matrix, fossiliferous in part, few parts 2ndary-xlyn on edges, fair inter-xlyn to some scattered pinpoint porosity, no shows noted

Limestone: light tan and off white, fine-xlyn, dense tight matrix, fossiliferous in part, poor inter-xlyn porosity, no shows noted, with Shale: light to dark gray and brick red, blocky, some rounded, mostly soft, few parts silty, pyritic in part

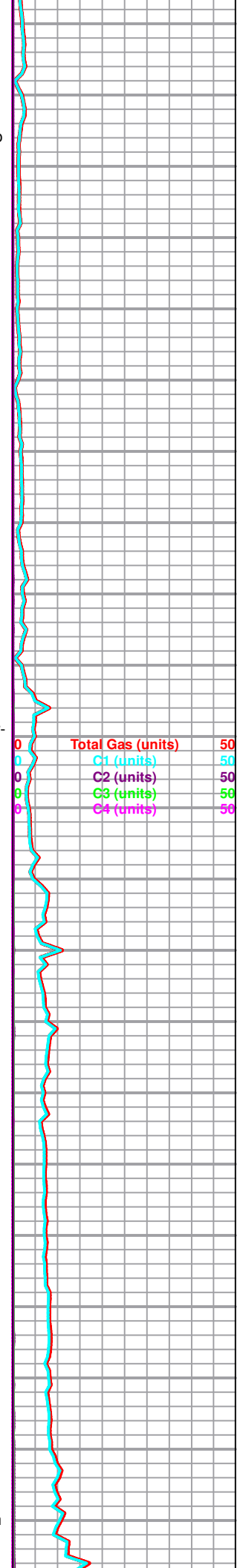
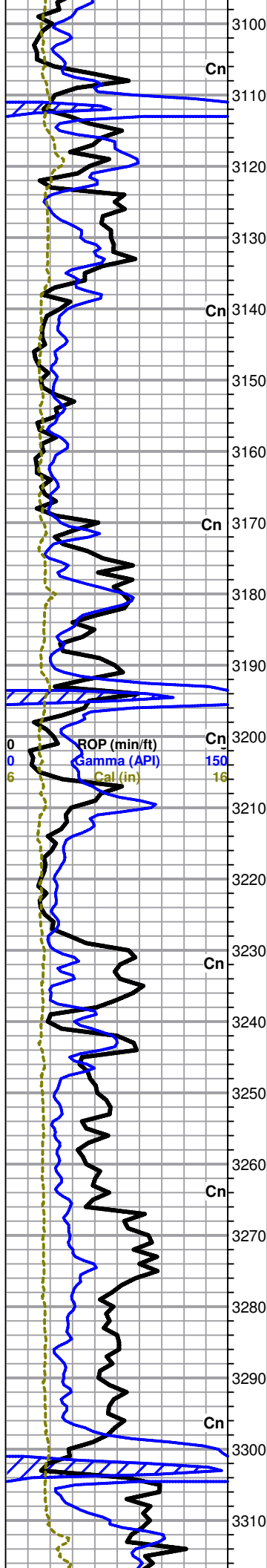
Limestone: off white and light gray, crypto-micro-xlyn, dense tight matrix, mostly barren, poor visible porosity, no shows noted

Limestone: light tan to tan, some light gray, crypto-micro-xlyn, dense tight matrix, mostly barren with some sub-fossiliferous, poor visible porosity, no shows noted

Heebner 3300' (-1372)

Shale: black carb, blocky, mostly hard with some fissile, slight show of gas on break

Shale: light to dark gray, some greenish gray, blocky and hard, pyritic in part



Toronto Limestone 3319' (-1391)

Limestone: off white and light gray, some light tan, micro to fine-xlyn, dense sub-chalky matrix, mostly fossiliferous to bioclastic, abundant 2ndary-xlyn, fair inter-xlyn porosity, no shows noted, with interbedded Shale as above

Douglas 3338' (-1410)

Shale: light to dark gray, some greenish gray and brick red, blocky to rounded, mostly soft, fissile and silty

Shale: as above

Shale: gray to dark gray, rounded, mostly soft, abundant silty material, sample washes dark gray

Shale: as above

Start 10' wet & dry samples following short trip

Brown Lime 3429' (-1501)

Limestone: tan to dark tan, micro-xlyn, dense tight matrix, few parts fossiliferous, poor visible porosity, no shows noted

Lansing-Kansas City 3441' (-1513)

Limestone: cream white and light tan, micro-xlyn, dense chalky matrix, fossiliferous to bioclastic in lower part, some 2ndary xlyn, few parts shaley, poor to fair inter-xlyn porosity, no shows noted

Limestone: cream white and off white, micro-xlyn, dense chalky matrix, 2ndary-xlyn in part, fair inter-xlyn and pinpoint porosity in most, some chalk fill, few pieces with slight show of gas on break and spotty dark stains, dull yellow fluorescence, no cut, fair odor

Limestone: light to dark tan, fine-xlyn, dense grainy matrix, densely fossiliferous to bioclastic in part, poor to fair inter-xlyn porosity, no shows noted, with interbedded Shale: light gray to gray, blocky and hard

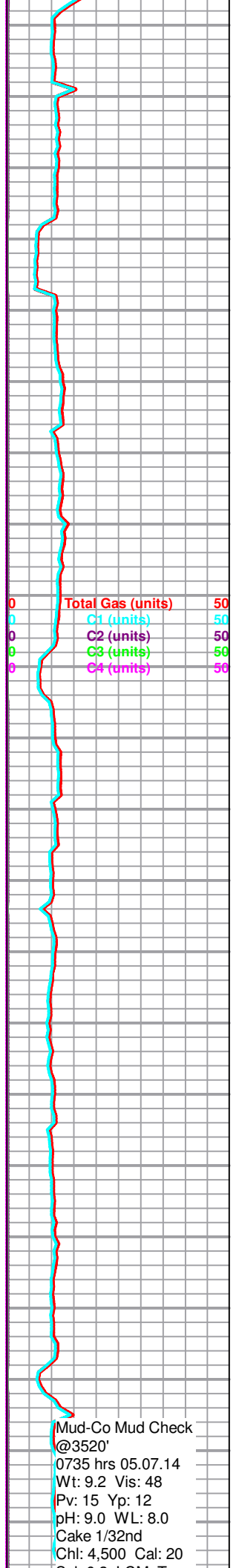
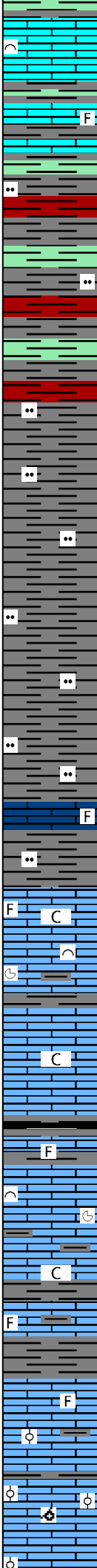
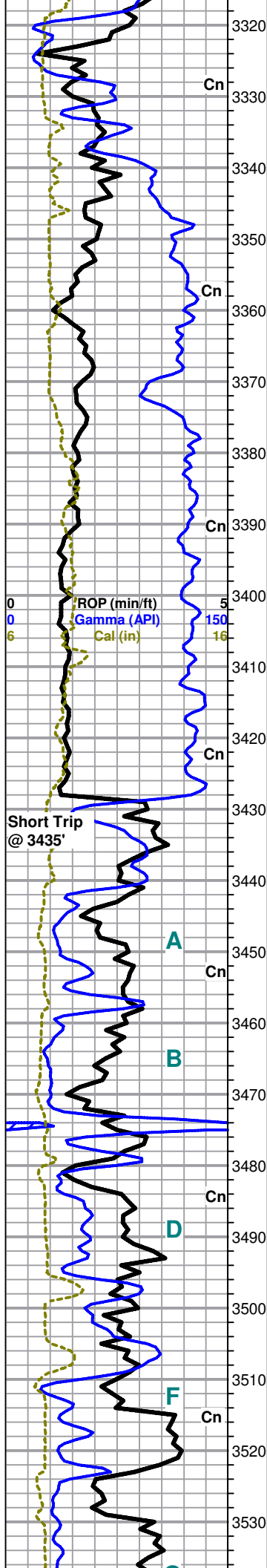
Limestone: off white to cream white, micro-xlyn, dense sub-chalky matrix, sub-fossiliferous in part, few parts 2ndary-xlyn, poor inter-xlyn porosity, with interbedded Shale as above

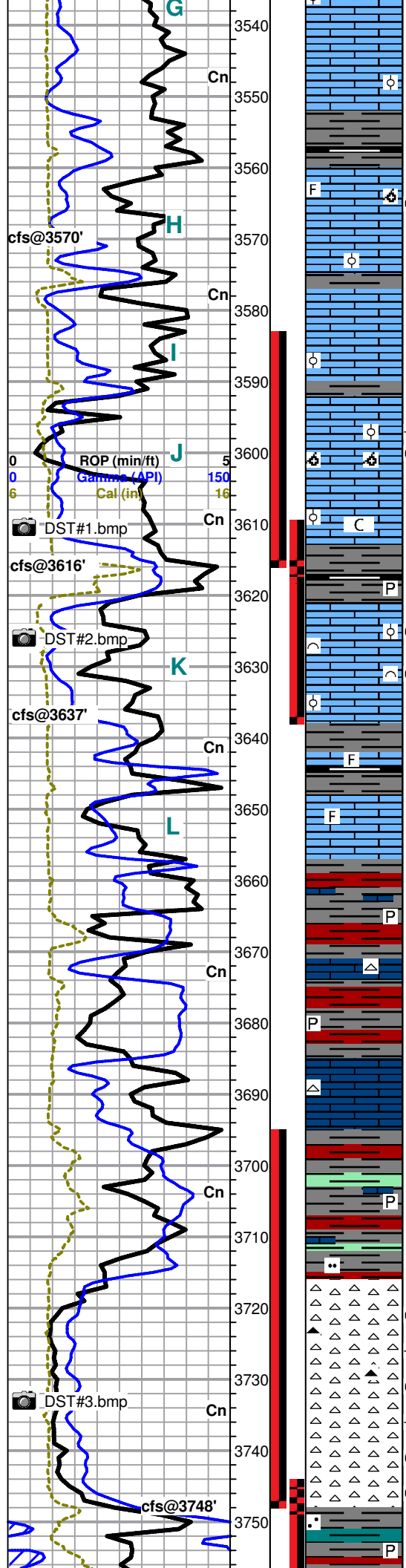
Limestone: cream white and light gray, micro-xlyn, dense sub-chalky matrix, fossiliferous to oolitic, fair pinpoint porosity in part, scattered spotty dark dead stains, no live shows noted

Limestone: light tan and light gray, micro-xlyn, dense sub-chalky matrix, mostly oolitic with some poor to fair oomoldic dev. & assc. porosity, trace fair vuggy porosity, no shows noted, lower part sub-oolitic to barren

Total Gas (units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50

Mud-Co Mud Check
@3520'
0735 hrs 05.07.14
Wt: 9.2 Vis: 48
Pv: 15 Yp: 12
pH: 9.0 WL: 8.0
Cake 1/32nd
Chl: 4,500 Cal: 20





Limestone: light to dark tan, some cream white, dense tight matrix, sub-oolitic in part, poor visible porosity, no shows noted

Muncie Creek Shale 3555' (-1627)

Shale: gray to dark gray, trace black carb, blocky and hard

cfs@3570' - Limestone: light tan and off white, fine-xlyn, dense sub-grainy matrix, sub-fossiliferous to sub-oolitic in part, trace poor oomoldic development, some fair inter-xlyn porosity, scattered light residue staining on edges, no fluorescence, no cut, very faint odor

Limestone: cream white and light tan, micro-xlyn, dense sub-chalky matrix, oolitic in part, poor visible porosity, no shows noted

(3596-3604') Limestone: cream white and off white, micro-xlyn, friable sub-chalky matrix, oolitic in part with some good oomoldic dev. & assc porosity, scattered fair inter-xlyn porosity, fair to good show of dark oil and gas on break, few pieces bleeding, light even staining with porosity, dull yellow fluorescence, very faint milky cut, good odor

cfs @ 3616' - Limestone: cream white and light tan, micro-xlyn, dense sub-chalky matrix, mostly nondescript to some sub-oolitic, poor visible porosity, no shows noted

Stark Shale 3613' (-1685)

Shale: gray to dark gray, some black carb, blocky and hard, few parts pyritic

cfs@3637' - Limestone: cream white and light tan, micro-xlyn, dense sub-chalky matrix, mostly oolitic to bioclastic, scattered fair to good vuggy porosity, few pieces with fair show of dark oil on break, most with light brown even staining with porosity, very faint milky cut, dull yellow fluorescence, fair odor

Limestone: cream white, fine-xlyn, dense tight matrix, fossiliferous to oolitic, poor visible porosity, no shows note,d with some Shale

Hushpuckney Shale 3644' (-1716)

Shale: gray to greenish gray, some black carb, blocky and hard, and Limestone: cream white and light tan, micro to fine-xlyn, dense sub-chalky matrix, sub-fossil in part, poor porosity, no shows noted

Base Kansas City 3657' (-1729)

Shale: light to dark gray, some brick red, blocky, mostly fissile, with interbedded Limestone: light tan to off white, crypto-micro-xlyn, dense sub-cherty matrix, mostly barren, poor visible porosity, no shows noted

Limestone: cream white and light tan, micro-xlyn, dense sub-chalky matrix, poor visible porosity, no shows noted, with some Shale as above

Mostly Shale: gray, some red and greenish gray, blocky, mostly fissile, silty in part, with some Limestone as above

Viola 3716' (-1788)

cfs@3748' 20" - Chert: mostly bone white, some light brown, opaque, sharp and fresh with fair weathering on edges in most, few pieces heavily weathered, slight show of free oil in tray, fair spotty staining with weathered material, bright yellow fluor., very faint milky cut, faint odor

cfs@3748' 40/60" - Chert as above, with Chert: light tan to light brown, opaque, weathered to tripolitic, fair staining in most, very slight show of free oil in tray, dull yellow fluorescence, no cut, faint odor

Simpson 3748' (-1820)

Shale: dark gray and teal green some red, blocky and hard, sandy to pyritic in part

Sol: 6.2 LCM: Tr
DMC: \$506.90
CMC: \$6,543.30

18 Total Units

Total Gas (units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50

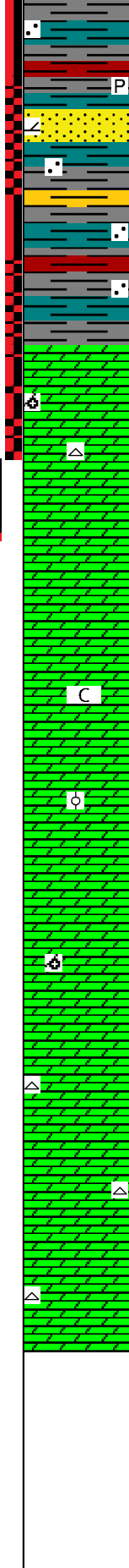
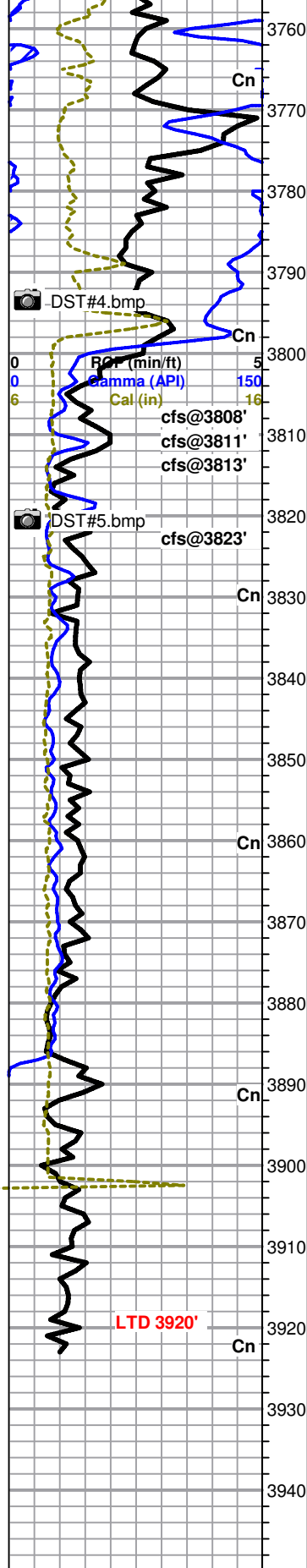
Note Scale Change

Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100

Mud-Co Mud Check
@ 3637'
0820 hrs 05.08.14
Wt: 9.2 Vis: 55
Pv: 15 Yp: 15
pH: 7.5 WL: 8.4
Cake 1/32nd
Chl: 7,200 Cal: 140
Sol: 6.0 LCM: Tr
DMC: \$101.00
CMC: \$6,644.30

50 Total Units

Mud-Co Mud Check
@ 3748'
0815 hrs 05.09.14
Wt: 9.2 Vis: 60
Pv: 15 Yp: 18



Shale: as above, with some Sandstone: white to off white, fn-md-grained, moderately sorted and cemented, ang. to rounded, slightly dolomitic in part, few parts friable with fair inter-granular porosity, scattered dark dead oil stains, no live shows noted

Shale: dark gray and teal green, some red and yellow, blocky and hard, many parts sandy

cfs@3808' 30" - dark gray, some teal green, blocky and hard, few parts sandy

Arbuckle 3799' (-1871)

cfs@3808' 60" - Dolomite: cream white to off white, micro-vf-xlyn, poor to some fair rhombic dev., trace pyritic, fair to good oomoldic dev. & assoc. porosity in part, some fair pinpoint porosity, slight show of dark oil drops forced on break and building, scattered spotty dark stains, bright greenish-yellow fluorescence, faint milky cut, good odor

cfs@3811' - Dolomite: cream white and light tan, vf-fn-xlyn, fair rhombic dev. with poor to fair assoc. porosity, slight show of dark oil drops forced on break, scattered spotty dark stains, bright green-yellow fluorescence, v. faint milky cut, good odor

cfs@3813' - Dolomite: cream white and light tan, fn-xlyn, fair rhombic dev. and assoc. porosity, few parts sli cherty, shows as above, good odor

cfs@3823' - Dolomite: cream white and light tan, md-crse-xlyn, fair to good rhombic dev. and porosity, few parts friable, good show of dark oil on break, some spotty staining in part, bright green-yellow fluorescence, faint milky cut, good odor, lower part slightly finer-xlyn and slight decrease in show

(3824-34') Dolomite: cream white to off white, vf-fn-xlyn, dense, fair rhombic dev. with poor to fair assoc. porosity, some scattered edge staining, no free oil or gas, green-yellow fluorescence, very faint odor

(3835-49') Dolomite: cream white and light tan, vf-xlyn, dense, sub-chalky in part, poor to fair rhombic dev. & porosity, scattered spotty stains (?), no free oil or gas, green-yellow fluorescence, very faint odor

(3850-59') Dolomite: off white and light tan, vf-xlyn, dense, sub-chalky in part, few parts sub-oolitic, poor rhombic dev. & porosity, no shows noted

(3860-79') Dolomite: cream white and off white, micro to vf-xlyn, few parts friable, poor to fair rhombic dev., sucrosic in part to some good oomoldic dev. & porosity, no shows noted

(3880-89') Dolomite: off white, micro-xlyn, sucrosic in part, fair rhombic dev. & porosity, no shows noted

cfs@3923' 30" - Dolomite: light tan to tan, micro to fine-xlyn, dense and tight, sub-cherty in part, poor to fair rhombic dev. & poor assoc. porosity, no shows noted

Rotary Total Depth 3923' (-1995)

Sample descriptions continued:

cfs@3923' 60" - Dolomite: as above, slight improvement in rhombic dev. & porosity, no shows noted

Orders received to run 5 1/2" production casing

Respectfully submitted,

Adam G. Nighswonger

pH: 9.0 WL: 12.8
Cake 1/32nd
Chl: 12,000 Cal: 360
Sol: 5.7 LCM: 0#
DMC: \$722.60
CMC: \$7,366.90

Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100

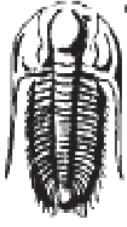
Test Contamination

Mud-Co Mud Check @3813'

0830 hrs 05.10.14
Wt: 9.2 Vis: 45
Pv: 14 Yp: 15
pH: 10.5 WL: 9.6
Cake 1/32nd
Chl: 10,000 Cal: 80
Sol: 5.8 LCM: 2#
DMC: \$1,396.05
CMC: \$8,762.95

Mud-Co Mud Check @3828'

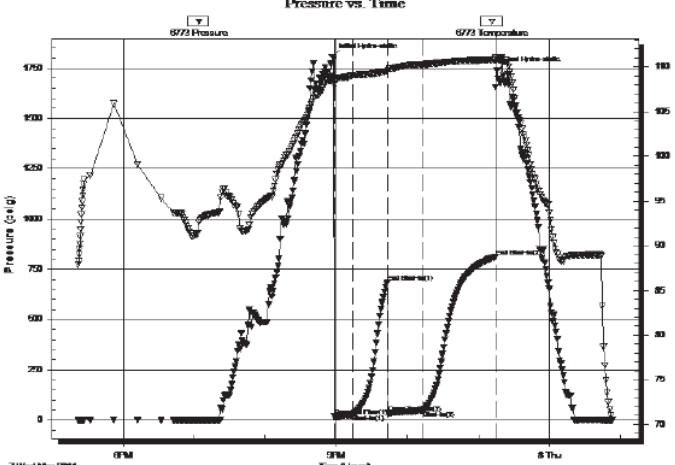
0830 hrs 05.11.14
Wt: 8.9 Vis: 43
Pv: 13 Yp: 14
pH: 9.0 WL: 12.8
Cake 2/32nd
Chl: 14,000 Cal: 320
Sol: 3.5 LCM: 1/2#
DMC: \$0.00
CMC: \$8,762.95

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		
Edison Operating co., LLC. 8100 E 22nd St.N. BLDG 1900 Wichita, Ks. 67226 ATTN: Adam Nighswonger		24-22s-14w Stafford Co. Kuhn #1-24 Job Ticket: 52014 DST#: 1 Test Start: 2014.05.07 @ 17:22:12	

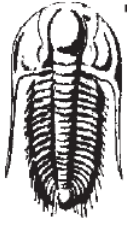
GENERAL INFORMATION:			
Formation: Lansing KC "J" Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 20:58:12 Time Test Ended: 00:53:27		Test Type: Conventional Bottom Hole (Initial) Tester: Matt Smith Unit No: 53	
Interval: 3583.00 ft (KB) To 3616.00 ft (KB) (TVD) Total Depth: 3616.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 1929.00 ft (KB) 1924.00 ft (CF) KB to GR/CF: 5.00 ft	

Serial #: 6773 Outside			
Press@RunDepth: 48.62 psig @ 3584.00 ft (KB)		Capacity: 8000.00 psig	
Start Date: 2014.05.07 End Date: 2014.05.08		Last Calib.: 2014.05.08	
Start Time: 17:22:17 End Time: 00:53:26		Time On Btm: 2014.05.07 @ 20:56:42 Time Off Btm: 2014.05.07 @ 23:15:42	

TEST COMMENT: IF: Weak blow . Surf., - 4".
 IS: No blow .
 FF: Weak blow . Surf., to 4 1/2".
 FSI: No blow .

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4" style="text-align: center;">PRESSURE SUMMARY</th> </tr> <tr> <th style="width: 10%;">Time (Min.)</th> <th style="width: 15%;">Pressure (psig)</th> <th style="width: 10%;">Temp (deg F)</th> <th style="width: 75%;">Annotation</th> </tr> <tr> <td>0</td> <td>1804.65</td> <td>108.72</td> <td>Initial Hydro-static</td> </tr> <tr> <td>2</td> <td>17.80</td> <td>107.94</td> <td>Open To Flow (1)</td> </tr> <tr> <td>17</td> <td>28.05</td> <td>109.09</td> <td>Shut-In(1)</td> </tr> <tr> <td>47</td> <td>683.47</td> <td>109.52</td> <td>End Shut-In(1)</td> </tr> <tr> <td>47</td> <td>31.99</td> <td>109.59</td> <td>Open To Flow (2)</td> </tr> <tr> <td>77</td> <td>48.62</td> <td>110.27</td> <td>Shut-In(2)</td> </tr> <tr> <td>138</td> <td>810.72</td> <td>110.82</td> <td>End Shut-In(2)</td> </tr> <tr> <td>139</td> <td>1738.50</td> <td>110.85</td> <td>Final Hydro-static</td> </tr> </table>	PRESSURE SUMMARY				Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1804.65	108.72	Initial Hydro-static	2	17.80	107.94	Open To Flow (1)	17	28.05	109.09	Shut-In(1)	47	683.47	109.52	End Shut-In(1)	47	31.99	109.59	Open To Flow (2)	77	48.62	110.27	Shut-In(2)	138	810.72	110.82	End Shut-In(2)	139	1738.50	110.85	Final Hydro-static
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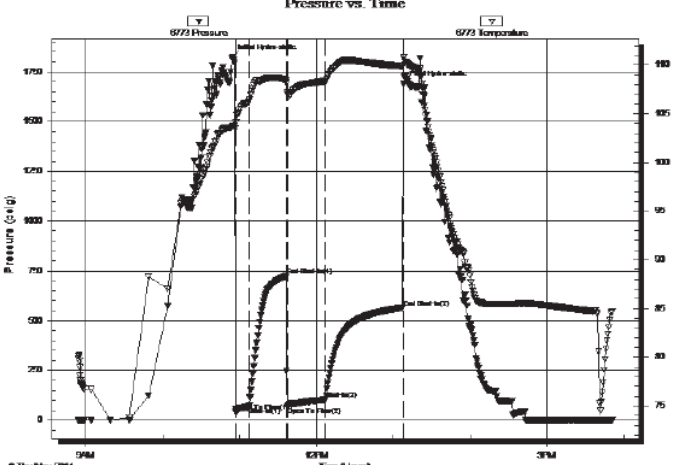
Recovery			Gas Rates			
Length (ft)	Description	Volume (bbl)		Choke (inches)	Pressure (psig)	Gas Rate (M cf/d)
62.00	GOMCW 5%g 5%o 45%w 45%m	0.30				

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		
Edison Operating co., LLC. 8100 E 22nd St.N. BLDG 1900 Wichita, Ks. 67226 ATTN: Adam Nighswonger		24-22s-14w Stafford Co. Kuhn #1-24 Job Ticket: 52015 DST#: 2 Test Start: 2014.05.08 @ 08:53:52	

GENERAL INFORMATION:			
Formation:	Lansing KC "K"		
Deviated:	No Whipstock:	0.00 ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	10:57:07		Tester: Matt Smith
Time Test Ended:	15:51:07		Unit No: 53
Interval:	3610.00 ft (KB) To 3637.00 ft (KB) (TVD)		Reference Elevations: 1929.00 ft (KB)
Total Depth:	3637.00 ft (KB) (TVD)		1924.00 ft (CF)
Hole Diameter:	7.88 inches - hole Condition: Fair		KB to GR/CF: 5.00 ft

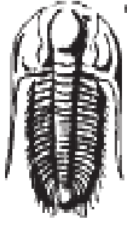
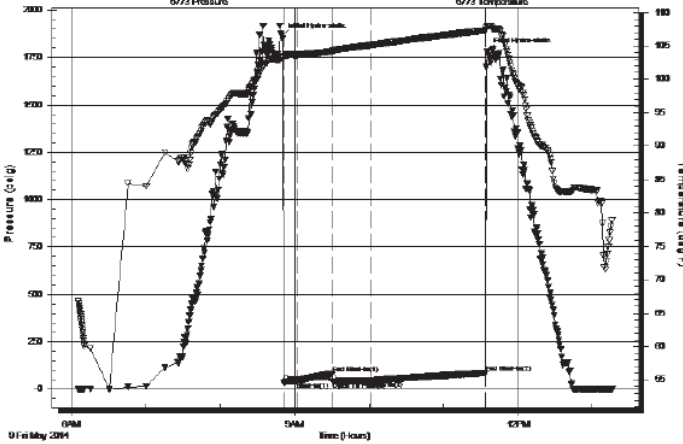
Serial #: 6773 Outside			
Press@RunDepth:	102.95 psig @	3611.00 ft (KB)	Capacity: 8000.00 psig
Start Date:	2014.05.08	End Date:	2014.05.08
Start Time:	08:53:57	End Time:	15:51:06
		Time On Btm:	2014.05.08 @ 10:53:52
		Time Off Btm:	2014.05.08 @ 13:08:07

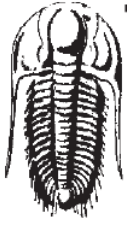
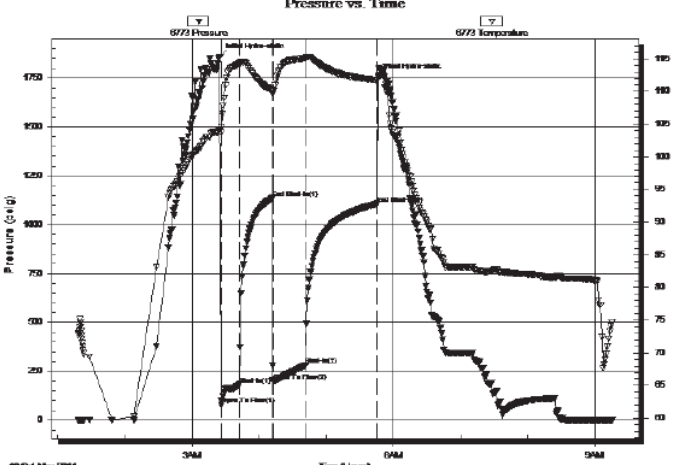
TEST COMMENT: IF: Strong blow . B.O.B. in 1 min.
 IS: No blow . 8 mins. to bleed off.
 FF: Strong blow . B.O.B. in 30 secs.
 FSI: Fair blow . Surf., to 9".

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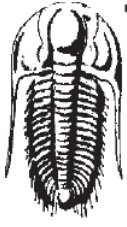
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 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																									
Edison Operating co., LLC. 8100 E 22nd St.N. BLDG 1900 Wichita, Ks. 67226 ATTN: Adam Nighswonger		24-22s-14w Stafford Co. Kuhn #1-24 Job Ticket: 52016 DST#: 3 Test Start: 2014.05.09 @ 04:38:22																																								
GENERAL INFORMATION:																																										
Formation: Viola Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 07:24:07 Time Test Ended: 11:49:07		Test Type: Conventional Bottom Hole (Reset) Tester: Matt Smith Unit No: 53																																								
Interval: 3695.00 ft (KB) To 3748.00 ft (KB) (TVD) Total Depth: 3748.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 1929.00 ft (KB) 1924.00 ft (CF) KB to GR/CF: 5.00 ft																																								
Serial #: 6773 Outside																																										
Press@RunDepth: 44.45 psig @ 3696.00 ft (KB) Start Date: 2014.05.09 End Date: 2014.05.09 Start Time: 06:05:27 End Time: 13:16:06		Capacity: 8000.00 psig Last Calib.: 2014.05.09 Time On Btm: 2014.05.09 @ 08:49:37 Time Off Btm: 2014.05.09 @ 11:35:22																																								
TEST COMMENT: IF: Weak blow . Surf., - 2". IS: No blow . FF: Weak blow . Surf., - 2 1/2". FSI: No blow .																																										
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Edison Operating co., LLC. 8100 E 22nd St.N. BLDG 1900 Wichita, Ks. 67226 A T T N : Adam Nighswonger		24-22s-14w Stafford Co. Kuhn #1-24 Job Ticket: 52017 DST#: 4 Test Start: 2014.05.10 @ 01:18:34																																									
GENERAL INFORMATION:																																											
Formation: Arbuckle Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 03:26:19 Time Test Ended: 09:15:34 Interval: 3740.00 ft (KB) To 3813.00 ft (KB) (TVD) Total Depth: 3813.00 ft (KB) (TVD) Hole Diameter: 7.88 inches - hole Condition: Fair		Test Type: Conventional Bottom Hole (Reset) Tester: Matt Smith Unit No: 53 Reference Elevations: 1929.00 ft (KB) 1924.00 ft (CF) KB to GR/CF: 5.00 ft																																									
Serial #: 6773 Outside																																											
Press@RunDepth: 279.42 psig @ 3741.00 ft (KB) Start Date: 2014.05.10 End Date: 2014.05.10 Start Time: 01:18:39 End Time: 09:15:33		Capacity: 8000.00 psig Last Calib.: 2014.05.10 Time On Btm: 2014.05.10 @ 03:25:04 Time Off Btm: 2014.05.10 @ 05:46:04																																									
TEST COMMENT: IF: Strong blow . B.O.B. in 4 1/2 mins. IS: Strong blow . Surf., to 9". FF: Strong blow . B.O.B. in 2 1/2 mins. FS: Strong blow . Surf., to 9".																																											
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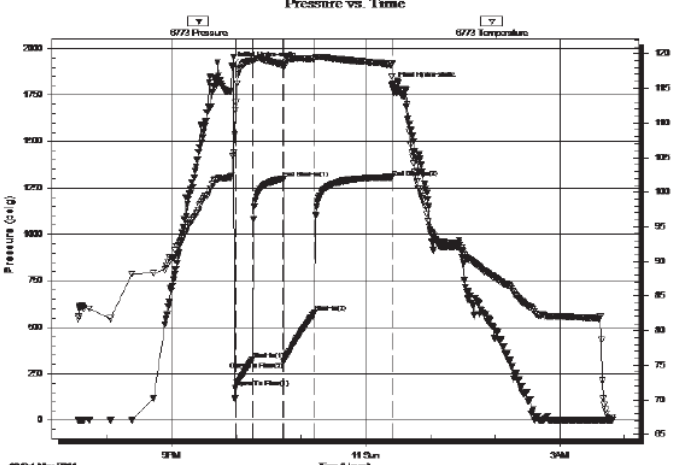
* Recovery from multiple tests

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		
Edison Operating co., LLC. 8100 E 22nd St.N. BLDG 1900 Wichita, Ks. 67226 A T T N : Adam Nighswonger		24-22s-14w Stafford Co. Kuhn #1-24 Job Ticket: 52018 DST#: 5 Test Start: 2014.05.10 @ 19:33:08	

GENERAL INFORMATION:			
Formation:	Arbuckle		
Deviated:	No Whipstock:	0.00 ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	21:59:23		Tester: Matt Smith
Time Test Ended:	03:49:08		Unit No: 53
Interval:	3813.00 ft (KB) To 3823.00 ft (KB) (TVD)		Reference Elevations:
Total Depth:	3823.00 ft (KB) (TVD)		1929.00 ft (KB)
Hole Diameter:	7.88 inches - hole Condition: Fair		1924.00 ft (CF)
			KB to GR/CF: 5.00 ft

Serial #: 6773 Outside			
Press@RunDepth:	577.21 psig @	3814.00 ft (KB)	Capacity: 8000.00 psig
Start Date:	2014.05.10	End Date:	2014.05.11
Start Time:	19:33:13	End Time:	03:49:07
		Time On Btm:	2014.05.10 @ 21:55:38
		Time Off Btm:	2014.05.11 @ 00:24:38

TEST COMMENT: IF: Strong blow . B.O.B. in 3 1/2 mins.
 IS: Weak blow . Surf., to 1".
 FF: Strong blow . B.O.B. in 4 mins.
 FS: Weak blow . Surf., to 3".

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4" style="text-align: center;">PRESSURE SUMMARY</th> </tr> <tr> <th style="width: 10%;">Time (Min.)</th> <th style="width: 15%;">Pressure (psig)</th> <th style="width: 15%;">Temp (deg F)</th> <th style="width: 60%;">Annotation</th> </tr> <tr> <td>0</td> <td>1907.88</td> <td>102.44</td> <td>Initial Hydro-static</td> </tr> <tr> <td>4</td> <td>171.54</td> <td>111.85</td> <td>Open To Flow (1)</td> </tr> <tr> <td>19</td> <td>326.92</td> <td>118.96</td> <td>Shut-In(1)</td> </tr> <tr> <td>48</td> <td>1297.65</td> <td>118.35</td> <td>End Shut-In(1)</td> </tr> <tr> <td>49</td> <td>315.21</td> <td>118.00</td> <td>Open To Flow (2)</td> </tr> <tr> <td>77</td> <td>577.21</td> <td>119.30</td> <td>Shut-In(2)</td> </tr> <tr> <td>149</td> <td>1307.10</td> <td>118.48</td> <td>End Shut-In(2)</td> </tr> <tr> <td>149</td> <td>1803.05</td> <td>116.62</td> <td>Final Hydro-static</td> </tr> </table>	PRESSURE SUMMARY				Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1907.88	102.44	Initial Hydro-static	4	171.54	111.85	Open To Flow (1)	19	326.92	118.96	Shut-In(1)	48	1297.65	118.35	End Shut-In(1)	49	315.21	118.00	Open To Flow (2)	77	577.21	119.30	Shut-In(2)	149	1307.10	118.48	End Shut-In(2)	149	1803.05	116.62	Final Hydro-static
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