



Scale 1:240 Imperial

Well Name: Jessie #1-8
 Surface Location: 330' FSL _1318' FWL Sec. 8-T22S-R16W
 Bottom Location:
 API: 15-145-21806-00-00
 License Number:
 Spud Date: 8/4/2015 Time: 9:00 PM
 Region: Pawnee
 Drilling Completed: 8/11/2015 Time: 10:41 AM
 Surface Coordinates:
 Bottom Hole Coordinates:
 Ground Elevation: 2008.00ft
 K.B. Elevation: 2019.00ft
 Logged Interval: 3150.00ft To: 4025.00ft
 Total Depth: 4025.00ft
 Formation: Penn Sand
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Shelby Resources, LLC
 Address: 621 17th St, Ste 1150
 Denver, CO 80293
 Contact Geologist: Janine Sturdavant
 Contact Phone Nbr: 303-907-2209 / 720-274-4682
 Well Name: Jessie #1-8
 Location: 330' FSL _1318' FWL Sec. 8-T22S-R16W
 API: 15-145-21806-00-00
 Pool:
 State: Kansas Field: Wildcat
 Country: USA

LOGGED BY



Company: Shelby Resources, LLC
 Address: 621 17TH ST, STE 1155
 DENVER, CO. 80293
 Phone Nbr: 203-671-6034
 Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC Jessie #1-8 was drilled to a total depth of 4025', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.








2 DST's were conducted throughout the Penn Conglomerate and Arbuckle Zones. The DST Reports can be found at the bottom of this log.

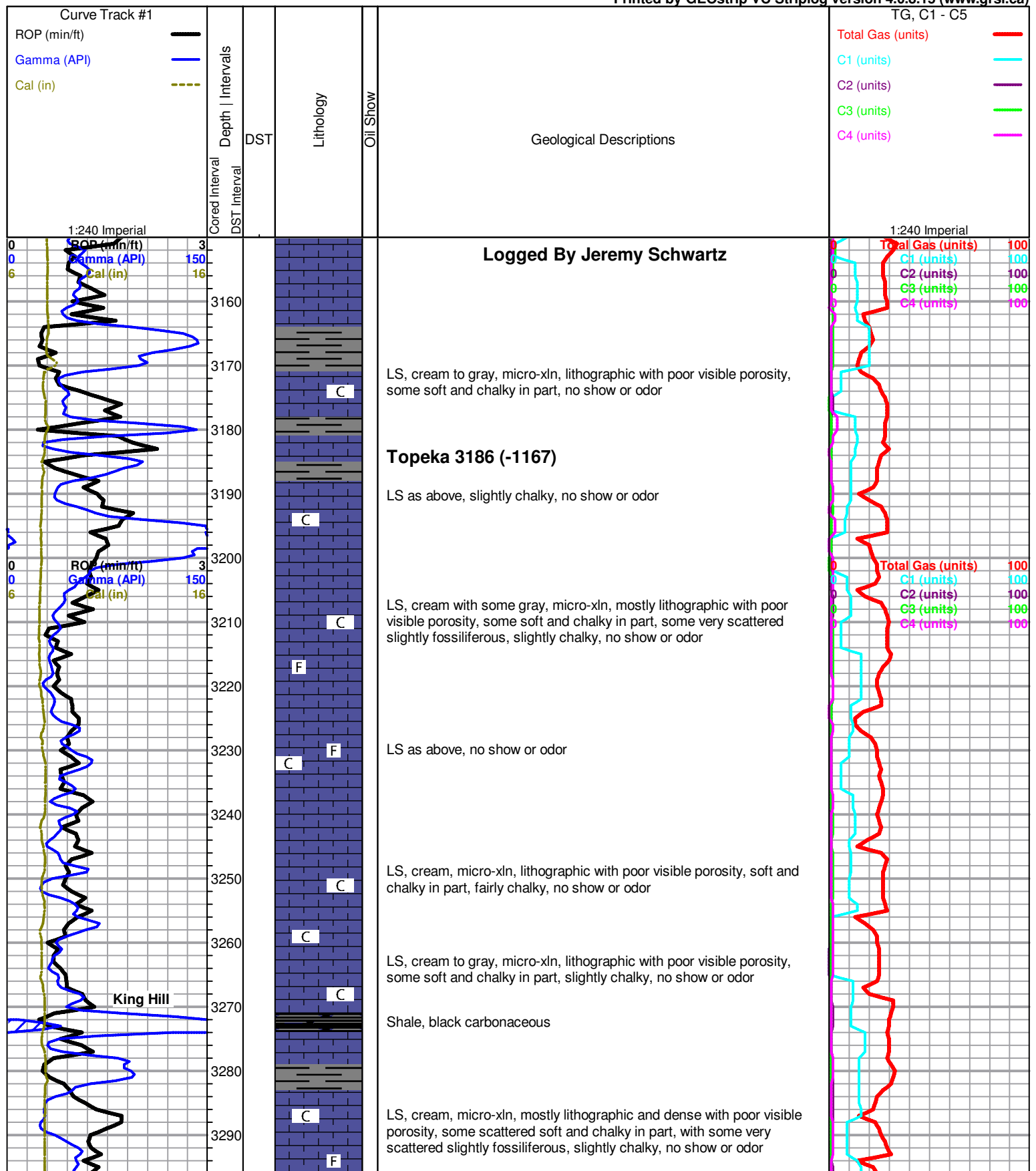
Due to DST Results, sample shows, gas kicks, and log analysis it was determined by all parties involved to plug and abandon the well. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

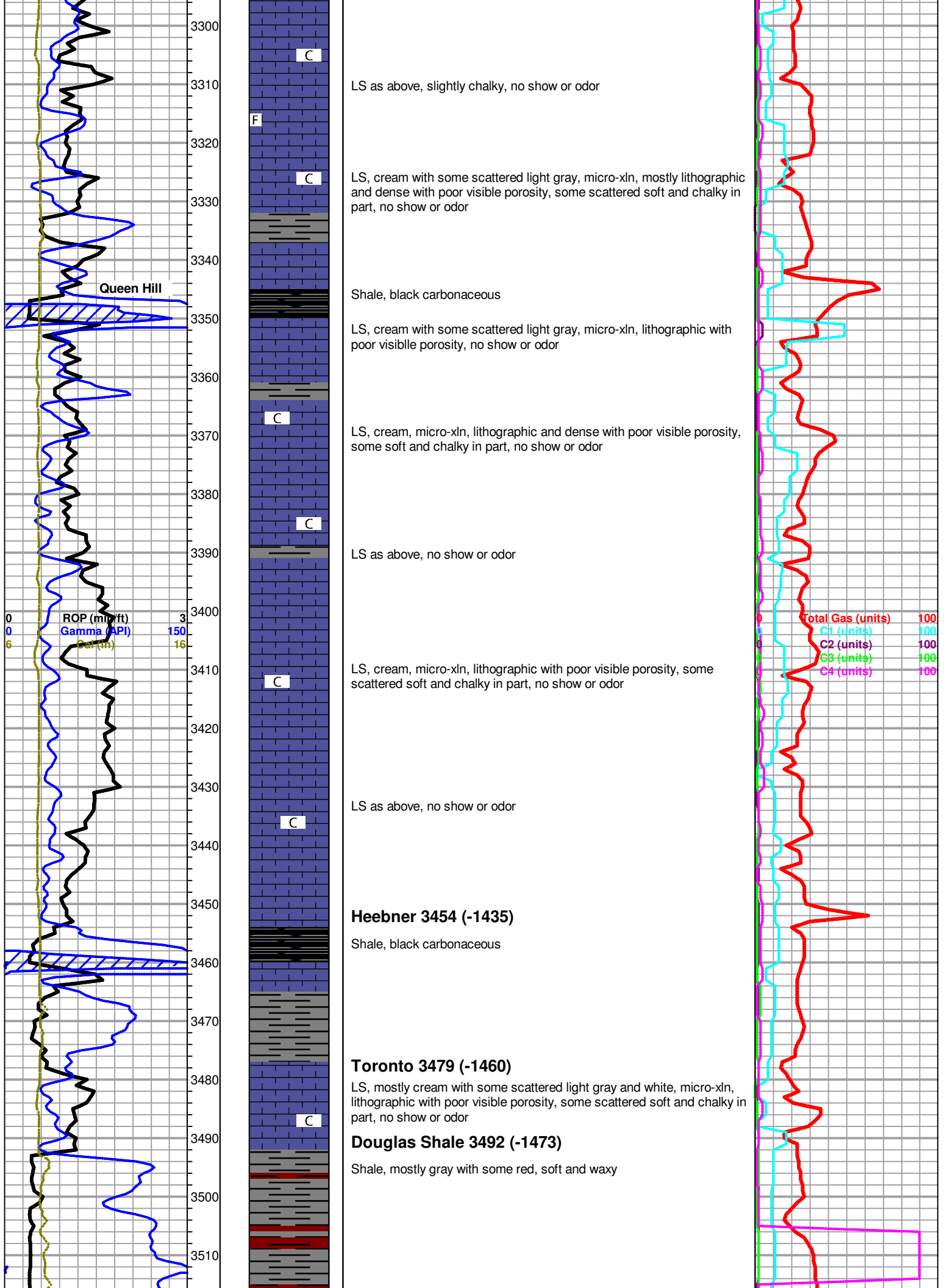
Respectfully Submitted,
 Jeremy Schwartz
 Geologist

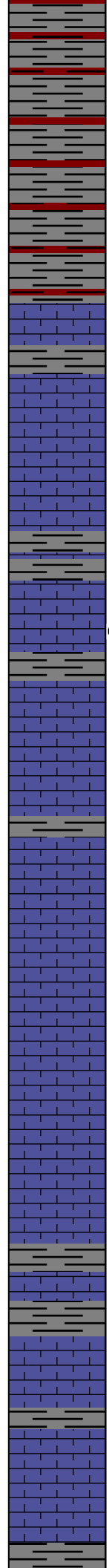
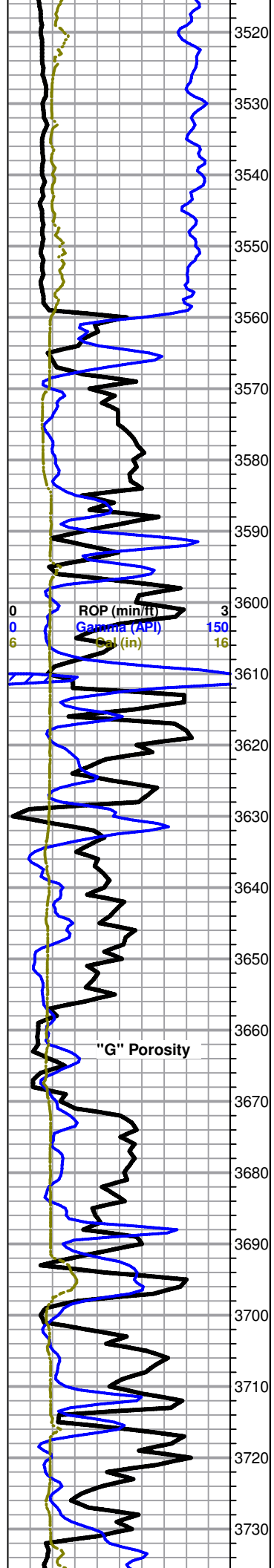
CONTRACTOR

Contractor: Sterling Drilling Co
 Rig #: 4
 Rig Type: mud motor

-  Document
-  Folder
-  Link
-  Vertical Log File
-  Horizontal Log File
-  Core Log File
-  Drill Cuttings Rpt







Shale as above

Brown Lime 3560 (-1541)

LS, brown, micro-xln, lithographic and very dense with no visible porosity, no show or odor

Lansing 3568 (-1549)

LS, cream to white with some very scattered gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS, cream to white with some very scattered gray, micro-xln, lithographic and dense with poor visible porosity, some very scattered with very scattered poor pinpoint porosity, no show or odor

LS as above, with trace with some scattered mostly poor visible inter-xln pinpoint porosity and slight brown stain in and around porosity only, VSSFO upon break, also slightly chalky in part, no odor

LS, cream to white with some scattered gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS, cream to gray with some scattered white, lithographic and dense with poor visible porosity, no show or odor

LS, cream to gray with some scattered white, micro-xln, mostly lithographic and dense with poor visible porosity, also with some very scattered sub-oomoldic to oomoldic with poor visible oomold porosity, barren, no odor

LS, cream to white with some gray, micro-xln, lithographic and dense with poor visible porosity, some very scattered sub-oomoldic to oomoldic with poor visible oomold porosity, no show or odor

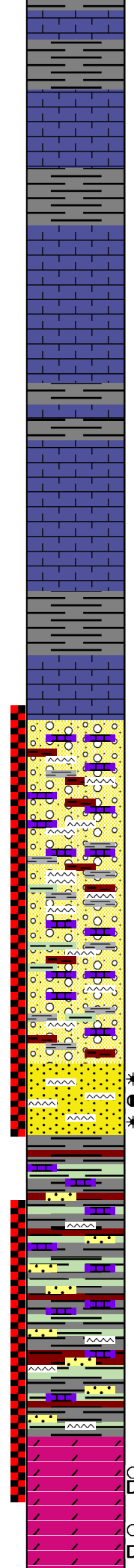
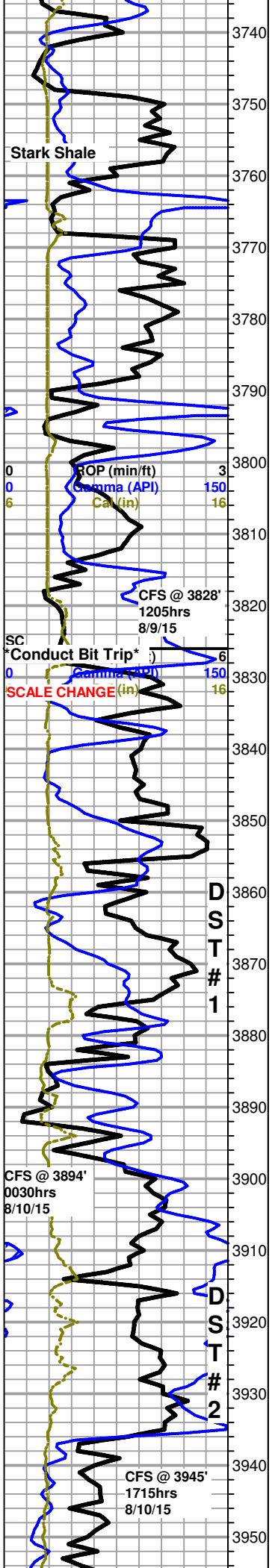
LS as above, with some very scattered oomoldic as above, barren, no odor

LS, cream to white with some gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor

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

Mud-Co Mud chk
 3691'
 8/9/15
 Vis: 48 Wt: 9.5
 PV: 14 YP: 11
 WL: 12.0
 Cake: 1/32
 pH: 8.0
 Ca: 80ppm
 CHL: 7,700ppm
 Sol: 8.1 LCM: 2
 DMC: \$1,541.61
 CMC: \$8,152.13

"G" Porosity



LS, cream to white with some scattered gray, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered sub-oomoldic to oomoldic with poor visible porosity, barren, no odor

LS as above, oomoldic appears to be dropping out, no show or odor

LS, cream to white with some scattered gray, micro-xln, lithographic and dense with poor visible porosity, trace sub-oomoldic to oomoldic with poor visible porosity, no show or odor

BKC 3818 (-1799)

Shale, gray with some very scattered pale green, also with some LS as above, no show or odor

Marmaton 3826 (-1807)

LS, cream to gray with some scattered white, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, with some scattered gray and green shale, with trace orange chert, no show or odor

Mixed cream to gray LS with some scattered white, lithographic and dense with poor visible porosity, trace sub-oomoldic, also with some scattered gray and green shale with trace red, with some scattered orange to tan cherts, slightly chalky, no show or odor

3894' 30" Mixed cream to light gray LS, with some scattered shales and tan to orange chert with some white, some chert tripolitic with few scattered chips slightly vuggy, with slight to fair show gas bubbles in porosity, some with scattered black stain, with abundant F-Med loose quartz SS grains in bottom of tray, clear, sub-rounded, few with scattered black stain, VSSFO in tray, some scattered fluor., no odor

Shelby Jessie 1-8 dst 1.jpg

Penn Sand/Chert 3884 (-1865)

3894' 60" Mostly same as above, with some chert, tripolitic to slightly vuggy edges, some with mostly saturated black stain and good show gas bubbles, most chert gassy, found few small SS clusters, clear to green, fine grained, sub-rounded and very friable, some slightly chalky, NSFO upon break, with abundant F-Med loose quartz SS grains in bottom of tray, clear, sub-rounded, few with scattered black stain, NSFO, some scattered fluor., no odor

~3900' Shale, gray to green with some scattered red, with some scattered LS and trace SS clusters, clear to black, f-f, sub-rounded, some very friable, some fairly well cemented, some fairly chalk filled, NSFO upon break, no shows or odor

~3910' Mostly same as above, slightly influx in black SS clusters, no shows or odor

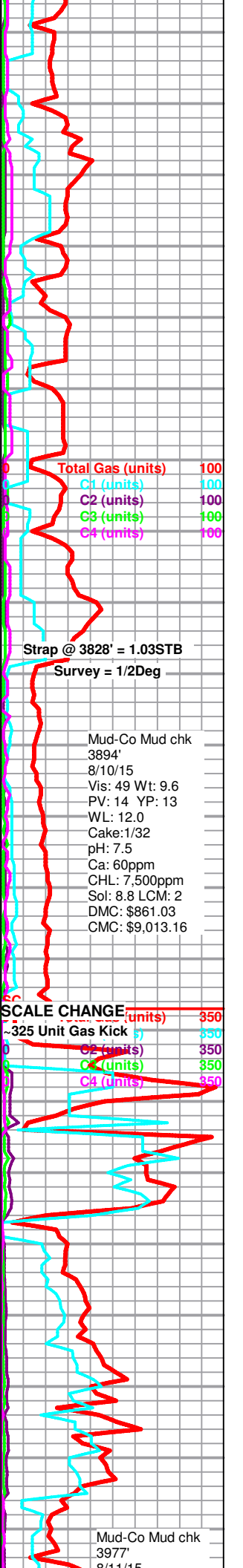
Shale, green to gray with some scattered red, also with some scattered SS clusters, black, v-f, sub-rounded, fairly well cemented to well cemented, upon break NSFO, found one small cluster clear, sub-rounded, friable, NSFO upon break, no shows or odor

Arbuckle 3936 (-1917)

Shelby Jessie 1-8 dst 2.jpg

3945' 30" Some scattered LS, shales, and cherts, also with some very scattered dolomite, cream to white, micro-xln, sucrosic and dense with poor visible porosity, barren, trace with some scattered sub-rhombic development and very scattered slight poor brown stain, NSFO, poor odor

3945' 60" Dolomite as above, also with influx sub-rhombic to rhombic, most



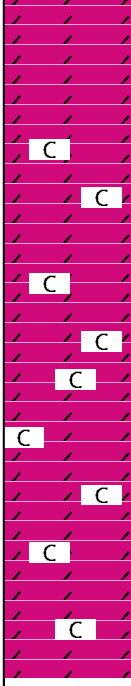
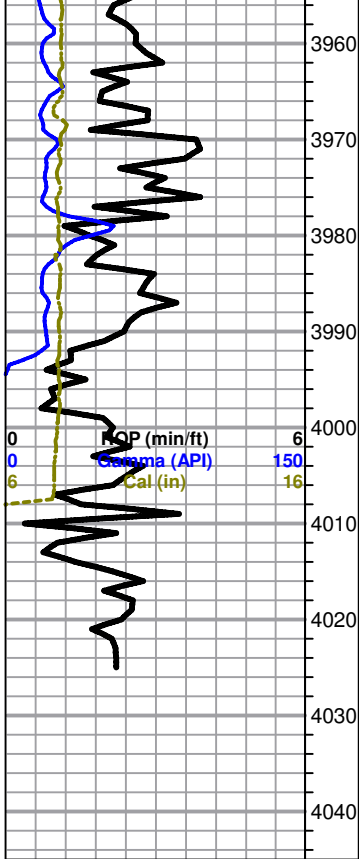
Total Gas (units) 100
 C1 (units) 100
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100

Strap @ 3828' = 1.03STB
 Survey = 1/2Deg

Mud-Co Mud chk
 3894'
 8/10/15
 Vis: 49 Wt: 9.6
 PV: 14 YP: 13
 WL: 12.0
 Cake: 1/32
 pH: 7.5
 Ca: 60ppm
 CHL: 7,500ppm
 Sol: 8.8 LCM: 2
 DMC: \$861.03
 CMC: \$9,013.16

SCALE CHANGE (units) 350
 ~325 Unit Gas Kick (s) 350
 C1 (units) 350
 C2 (units) 350
 C3 (units) 350
 C4 (units) 350

Mud-Co Mud chk
 3977'
 8/11/15



with poor visible porosity, some scattered fair inter-xln porosity, some barren, some with very scattered to scattered poor brown to black gilsonian stain, few chips with VSSFO upon break (several black, heavy droplets), NSFO in tray, poor odor

~3950' Dolomite, cream to white, micro-xln, mostly dense with poor visible porosity, some scattered sub-rhombic to rhombic with poor to fair visible inter-xln porosity and very scattered to scattered poor brown to black gilsonian stain, trace oomoldic, no show or odor

~3960' Mostly same as above with less sub-rhombic to rhombic, and slight influx in oomoldic, no show or odor

~3970' Dolomite, cream to white, micro-xln, mostly sucrosic and dense with poor visible porosity, some very scattered sub-rhombic with trace oomoldic as above, mostly poor with some very scattered fair visible porosity, also with some very scattered pyritic, some with very scattered black gilsonian stain, fairly chalky, no show or odor

~3980'-4000' Dolomite as above, barren, gilsonian stain dropping out, fairly chalky, no show or odor

Dolomite, cream to white, micro-xln, mostly sucrosic and dense with poor visible porosity, some very scattered sub-rhombic to rhombic with fair visible inter-xln porosity, some chalk filled in porosity, barren, fairly chalky, no odor

Dolomite as above, mostly dense with poor visible porosity, trace med-xln, rhombic with fair visible porosity and scattered black gilsonian stain, fairly chalky, no show or odor

8/11/15
Vis: 54 Wt: 9.15
PV: 16 YP: 13
WL: 10.8
Cake: 1/32
pH: 8.5
Ca: 60ppm
CHL: 8,800ppm
Sol: 6.0 LCM: 2
DMC: \$1,209.85
CMC: \$10,223.01

Total Gas (units)	350
C1 (units)	350
C2 (units)	350
C3 (units)	350
C4 (units)	350

Survey @ 4025' = 3/4Deg

Rotary TD 4025' @ 1041hrs 8/11/15
Nabors Well Services Logging TD @ 4024'
Complete Logging Operations @ 1830hrs 8/11/15
Geologist Jeremy Schwartz off location @ 1915hrs 8/11/15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources L.L.C
 621 17th St Ste 1155 Denver CO 80293
 ATTN: Jeremy Schwartz

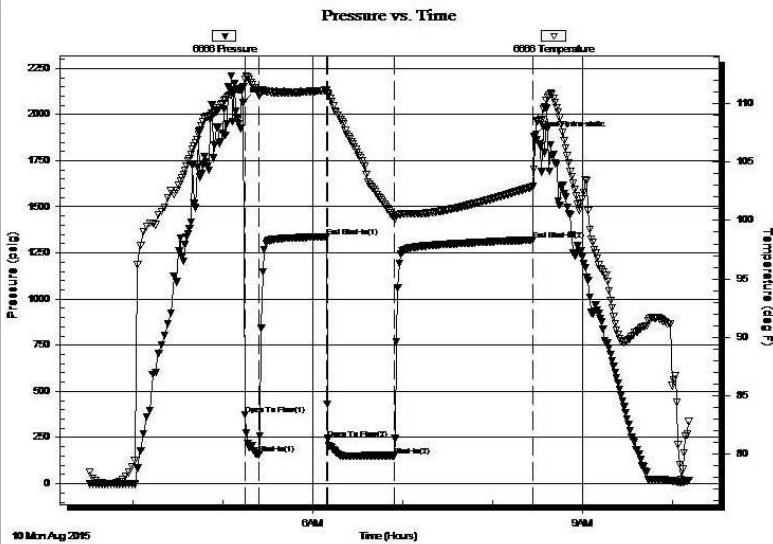
8-22-16w Pawnee
Jessie #1-8
 Job Ticket: 62933 **DST#: 1**
 Test Start: 2015.08.10 @ 03:30:00

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:14:30
 Time Test Ended: 10:10:30
 Interval: **3834.00 ft (KB) To 3894.00 ft (KB) (TVD)**
 Total Depth: 3894.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 55-50rt -Great Bend
 Reference Elevations: 2019.00 ft (KB)
 2008.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6666 Inside
 Press@RunDepth: 152.37 psig @ 3866.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.08.10 End Date: 2015.08.10 Last Calib.: 2015.08.10
 Start Time: 03:31:00 End Time: 10:10:30 Time On Btm: 2015.08.10 @ 05:13:30
 Time Off Btm: 2015.08.10 @ 08:27:30

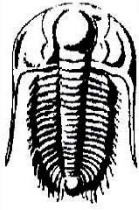
TEST COMMENT: IFP-10 Minutes-Strong blow built bottom of bucket in 45 sec
 ISIP-45 Minutes-No blow back
 FFP-45 Minutes-Strong blow built bottom of bucket in 45 sec
 FSIP-90Minutes-Very weak blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.24	111.43	Initial Hydro-static
1	372.93	112.03	Open To Flow (1)
11	159.69	110.71	Shut-In(1)
56	1337.41	111.14	End Shut-In(1)
57	244.13	110.78	Open To Flow (2)
101	152.37	100.20	Shut-In(2)
193	1319.71	102.90	End Shut-In(2)
194	1882.08	104.42	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
90.00	mud	0.99
0.00	3700 feet gas in pipe gas sample was	10.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	23.00	584.18
Last Gas Rate	0.75	23.00	584.18
Max. Gas Rate	0.75	23.00	584.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources L.L.C
 621 17th St Ste 1155 Denver CO 80293
 ATTN: Jeremy Schwartz

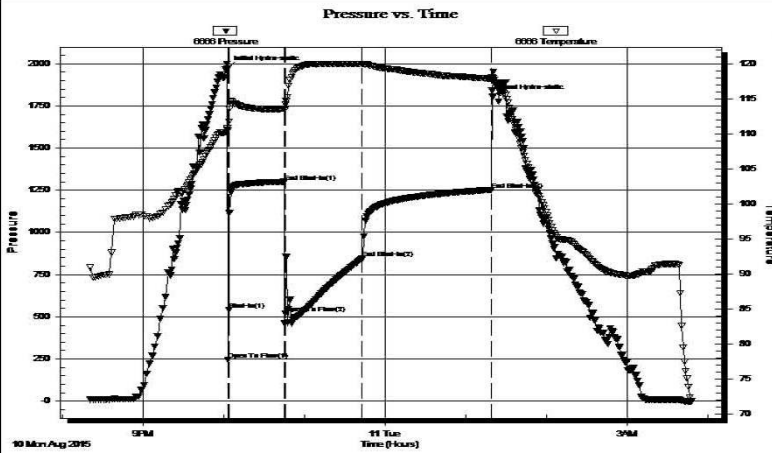
8-22-16w Pawnee
Jessie #1-8
 Job Ticket: 62934 **DST#: 2**
 Test Start: 2015.08.10 @ 20:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:03:30
 Time Test Ended: 03:48:00
Interval: 3903.00 ft (KB) To 3945.00 ft (KB) (TVD)
 Total Depth: 3945.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 55-Great Bend-RT50
 Reference Elevations: 2019.00 ft (KB)
 2008.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6666 Outside
 Press@RunDepth: 540.59 psig @ 3905.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.08.10 End Date: 2015.08.11 Last Calib.: 2015.08.11
 Start Time: 20:21:00 End Time: 03:48:00 Time On Btm: 2015.08.10 @ 22:03:00
 Time Off Btm: 2015.08.11 @ 01:20:00

TEST COMMENT: IFF-10 Minutes-Fair blow built 6 inches into bucket tool chased 4 feet
 ISIP-45 Minutes-No blow back
 FFP-60 Minutes-Strong blow built bottom of bucket in 5 minutes
 FSIP-90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.61	110.91	Initial Hydro-static
1	246.10	110.46	Open To Flow (1)
1	540.59	111.73	Shut-In(1)
42	1298.96	113.59	End Shut-In(1)
43	521.23	114.18	Open To Flow (2)
100	844.36	119.99	End Shut-In(2)
196	1252.05	117.89	End Shut-In(3)
197	1803.61	117.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1620.00	water	20.81
0.00	chlorides 30,000 resistivity .15@70degrees	0.00

Gas Rates

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