

Scale 1:240 Imperial

Well Name: Dale #1-16
Surface Location: 2214' FNL _941' FEL
Bottom Location:
API: 15-009-26144-00-00
License Number:
Spud Date: 7/8/2016 Time: 3:00 PM
Region: Barton County
Drilling Completed: 7/14/2016 Time: 8:15 AM
Surface Coordinates:
Bottom Hole Coordinates:
Ground Elevation: 1940.00ft
K.B. Elevation: 1948.00ft
Logged Interval: 2800.00ft To: 3500.00ft
Total Depth: 3500.00ft
Formation: Lansing Kansas-City
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Shelby Resources, LLC
Address: 621 17th ST, STE 1155
Denver, CO 80293

Contact Geologist: Jeff Zoller
Contact Phone Nbr: 620-786-0807
Well Name: Dale #1-16
Location: 2214' FNL _941' FEL
API: 15-009-26144-00-00
Pool: Field: Wildcat
State: KS Country: USA

LOGGED BY

Company: Shelby Resources, LLC
Address: 621 17th St., Suite 1155
Denver, CO 80293

Phone Nbr: 203-671-6034
Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC Dale #1-16 was drilled to a total depth of 3500', bottoming in the Arbuckle.

1 DST was conducted in the Lansing Kansas-City zone. The DST report can be found at the bottom of this log.

Due to negative DST results, sample shows, gas kicks, and log analysis it was determined by all consenting parties 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: Discovery Drilling
Rig #: 3
Rig Type: mud rotary
Spud Date: 7/8/2016 Time: 3:00 PM
TD Date: 7/14/2016 Time: 8:15 AM
Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1948.00ft Ground Elevation: 1940.00ft
K.B. to Ground: 8.00ft

DATE	DEPTH	ACTIVITY
Tuesday, July 12, 2016	3075'	Geologist Jeremy Schwartz on location @ 1115hrs, ~3075', drlg ahead through
		Heebner Shale, Toronto, Douglas Shale, Brown Lime, CFS @ 3198', conduct
	3276'	short trip, succesful short trip, resume drlg ahead through Lansing, CFS @ 3276',
Wednesday, July 13, 2016	3371'	resume drlg, CFS @ 3351', resume drlg, CFS @ 3371', resume drlg, CFS @ 3415',
	3415'	conduct short trip, drop survey, strap out of hole for DST #1 in the Lansing "H-K"
Thursday, July 14, 2016	3415'	successful test, resume drlg ahead through the conglomerate, CFS @ 3452',
	3452'	resume drlg, CFS @ 3463', resume drlg, CFS @ 3473', resume drlg ahead
	3473'	to TD @ 3500', TD reached @ 0815hrs, CTCH 1hour, drop survey, come out of hole,
	3500'	conduct logging operations, logging operations complete @ 1515hrs,
		Geologist Jeremy Schwartz off location @ 1530hrs

					L.D. DRILLING					D&A					SHELBY RESOURCES, LLC							
					FLOREINE #1-16					SHELLEY-MILLER DRILLING, INC					SHELBY RESOURCES, LLC							
					FLOREINE #1-16					McGINNIS #1					W-S #1-15							
					FLOREINE #1-16					McGINNIS #1					W-S #1-15							
DALE #1-16					NW SW NE SE 16-18S-14W					C SE SE NE 16-18S-14W					SW SE NW SW 15-18S-14W							
KB		1948			KB		1940			KB		1948			KB		1942					
LOG TOPS		SAMPLE TOPS			COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.		CORR.		DEPTH	DATUM	CORR.		CORR.		DEPTH	DATUM	CORR.		CORR.	
ANHYDRITE TOP	898	1050	889	1059	890	1050	+	0	+	9	900	1048	+	2	+	11	886	1056	-	6	+	3
BASE	923	1025	920	1028	913	1027	-	2	+	1	924	1024	+	1	+	4	912	1030	-	5	-	2
STOTLER	2607	-659	2608	-660	2598	-658	-	1	-	2	2604	-656	-	3	-	4	2597	-655	-	4	-	5
TARKIO	2675	-727	2676	-728	2665	-725	-	2	-	3	2672	-724	-	3	-	4	2665	-723	-	4	-	5
TOPEKA	2907	-959	2910	-962	2898	-958	-	1	-	4	2903	-955	-	4	-	7	2900	-958	-	1	-	4
QUEEN HILL SHALE	3039	-1091	3039	-1091	3032	-1092	+	1	+	1	3038	-1090	-	1	-	1	3032	-1090	-	1	-	1
HEEBNER SHALE	3124	-1176	3124	-1176	3116	-1176	+	0	+	0	3121	-1173	-	3	-	3	3115	-1173	-	3	-	3
TORONTO	3134	-1186	3133	-1185	3126	-1186	+	0	+	1	3132	-1184	-	2	-	1	3123	-1181	-	5	-	4
DOUGLAS SHALE	3150	-1202	3148	-1200	3141	-1201	-	1	+	1	3146	-1198	-	4	-	2	3135	-1193	-	9	-	7
BROWN LIME	3197	-1249	3196	-1248	3190	-1250	+	1	+	2	3196	-1248	-	1	+	0	3188	-1246	-	3	-	2
LKC	3208	-1260	3206	-1258	3200	-1260	+	0	+	2	3209	-1261	+	1	+	3	3197	-1255	-	5	-	3
LKC G POROSITY	3281	-1333	3279	-1331	3270	-1330	-	3	-	1	3276	-1328	-	5	-	3	3267	-1325	-	8	-	6
MUNCIE CREEK	3332	-1384	3331	-1383	3326	-1386	+	2	+	3	3330	-1382	-	2	-	1	3326	-1384	+	0	+	1
LKC H	3340	-1392	3337	-1389	3332	-1392	+	0	+	3	3338	-1390	-	2	+	1	3330	-1388	-	4	-	1
LKC J	3371	-1423	3370	-1422	3361	-1421	-	2	-	1	3370	-1422	-	1	+	0	3364	-1422	-	1	+	0
STARK SHALE	3397	-1449	3396	-1448	3387	-1447	-	2	-	1	3386	-1438	-	11	-	10	3382	-1440	-	9	-	8
BKC	3409	-1461	3408	-1460	3402	-1462	+	1	+	2	3405	-1457	-	4	-	3	3404	-1462	+	1	+	2
ARBUCKLE	3492	-1544	3492	-1544	3438	-1498	-	46	-	46	3446	-1498	-	46	-	46	3439	-1497	-	47	-	47
RTD	3500	-1552	3500	-1552	3550	-1610	+	58	+	58	3476	-1528	-	24	-	24	3507	-1565	+	13	+	13
LTD	3504	-1556			3550	-1610	+	54			3475	-1527	-	29			3507	-1565	+	9		

ROCK TYPES

 Congl	 Lmst fw<7	 shale, gry	 shale, red
 Dolprim	 shale, grn	 Carbon Sh	

ACCESSORIES

FOSSIL

^ Bioclastic or Fragmental
F Fossils < 20%

STRINGER

~ Chert
■ Limestone
■ Sandstone
■ Shale
■ green shale
■ red shale

TEXTURE

C Chalky

OTHER SYMBOLS

MISC

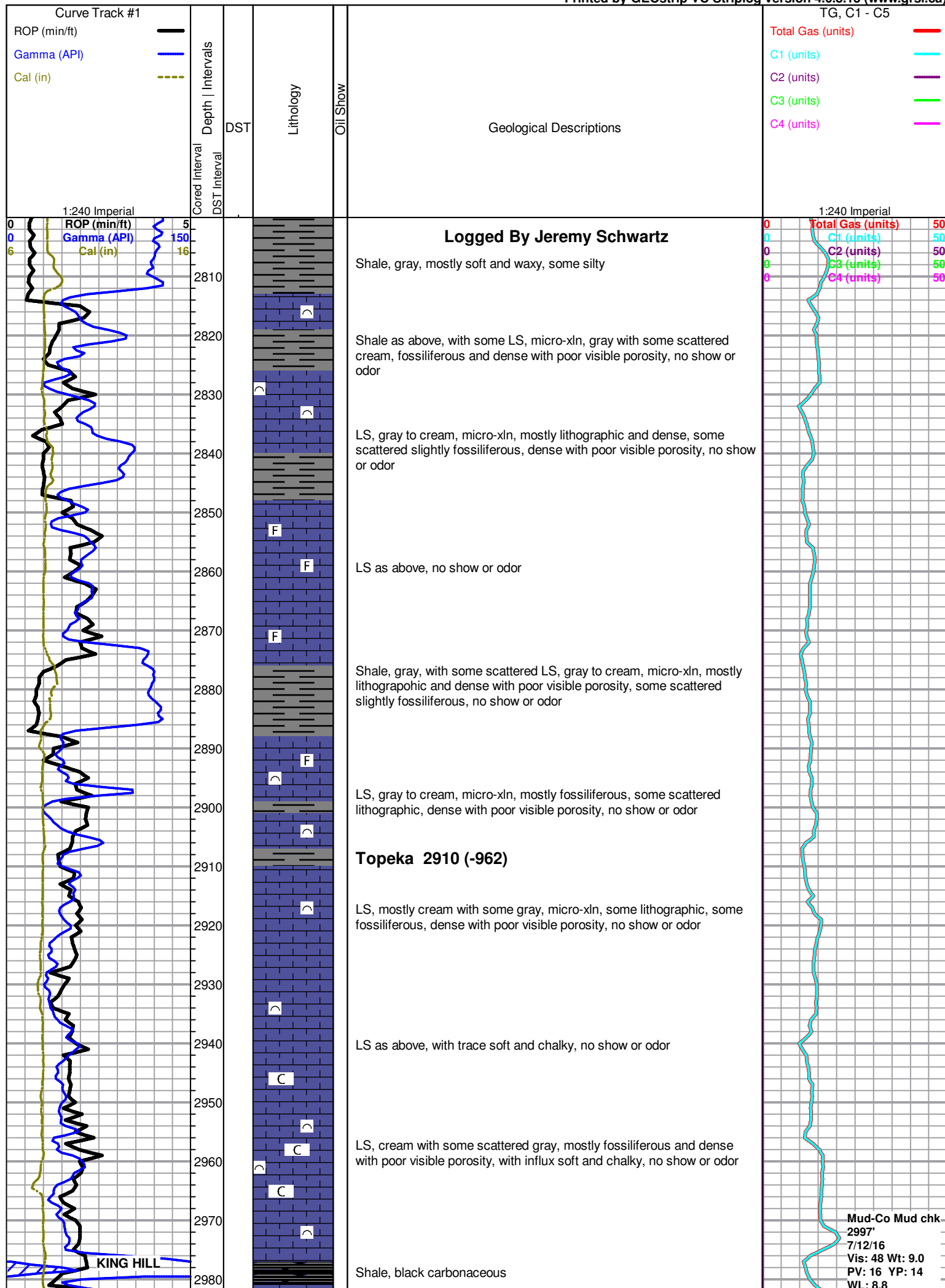
 Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

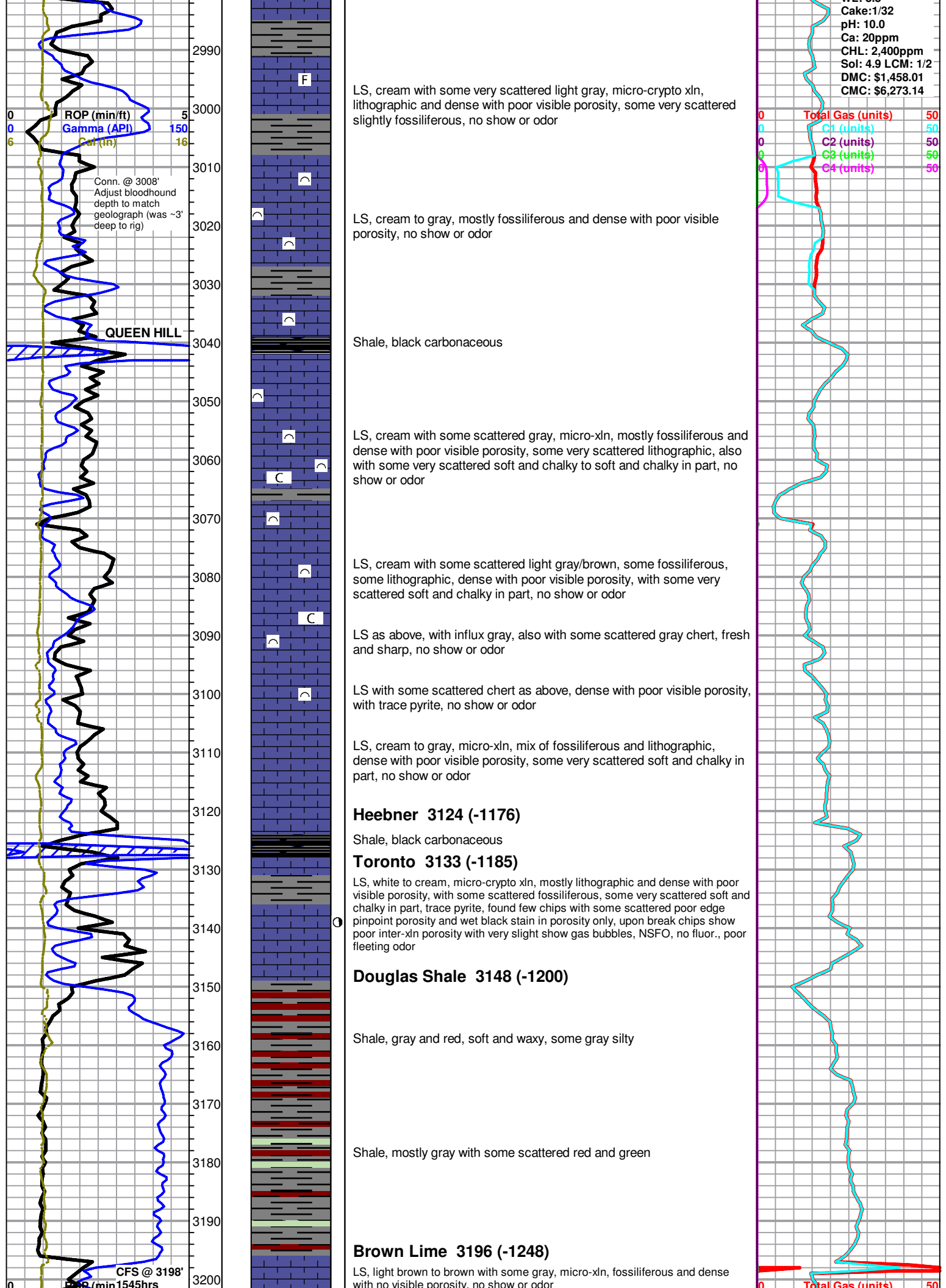
Oil Show

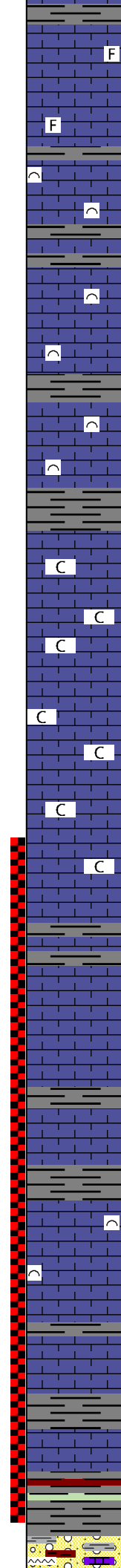
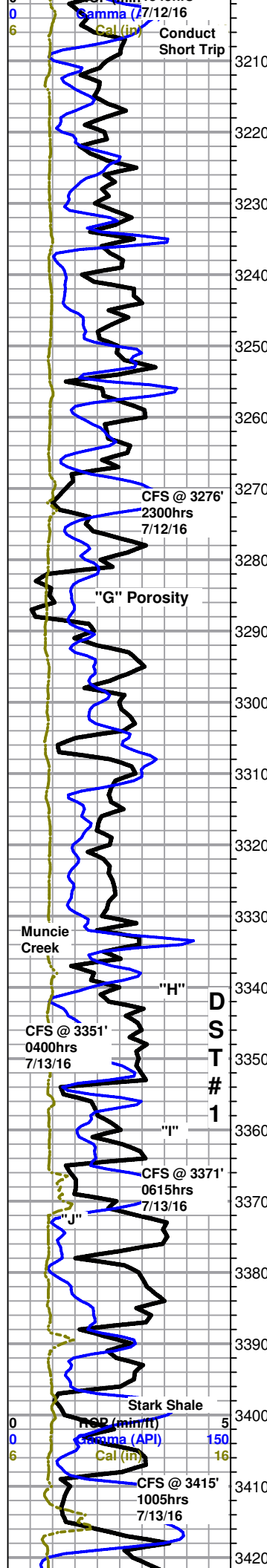
● Good Show
● Fair Show
● Poor show
○ Spotted or Trace
○ Questionable Stn
D Dead Oil Stn
■ Fluorescence
* Gas

DST

■ DST Int
■ DST alt







Lansing Kansas-City 3206 (-1258)

LS, cream with some scattered white, micro-xln, mostly lithographic with some scattered slightly fossiliferous, dense with poor visible porosity, no show or odor

LS as above, no show or odor

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

LS, mostly same as above, with some very scattered oolitic, dense with poor visible porosity, no show or odor

LS, cream to light gray with some very scattered brown, mostly lithographic with some scattered fossiliferous, dense with poor visible porosity, no show or odor

LS, cream, micro-xln, mostly lithographic with some scattered fossiliferous, some fossiliferous with very scattered poor pinpoint edge porosity with very scattered poor black stain in porosity only, few chips with one to two very small edge vugs as well, most too dense to break, overall poor visible porosity, NSFO, no fluor., no odor

3276' 30" LS, cream to gray, mostly fossiliferous with some lithographic and very scattered sub-oolitic to sub-oomoldic, some very scattered (<10%) with very scattered poor edge pinpoint porosity and very scattered poor stain in porosity only, few chips with one or two very small edge vugs, upon break some chips have VSSFO and fair show gas bubbles, some too dense to break, mostly poor overall porosity, SSFO in tray, no fluor., slightly chalky, poor fleeting odor

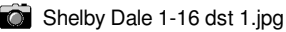
3276' 60" Mostly same as above

~3280' LS, cream to white, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered sub-oomoldic, mostly barren with poor visible oomold porosity, few very small chips with fair oomold porosity and very scattered black stain in oomolds only with SSFO (heavy black) in few oomolds as well, upon break NSFO, no fluor., slightly chalky, no odor

~3290' LS as above, with slight influx sub-oomoldic, with shows mostly dropping out, NSFO, no fluor., fairly chalky, no odor

~3300' LS, cream with some scattered white, micro-xln, lithographic and dense with poor visible porosity, with some scattered sub-oomoldic, barren with poor oomold porosity, no show or odor

~3310' LS, gray with some scattered cream and white, micro-xln, lithographic and dense with poor visible porosity, chalky, no show or odor

 Shelby Dale 1-16 dst 1.jpg

~3320' LS, gray to brown with some cream, micro-xln, lithographic and dense with poor visible porosity, slightly chalky, no show or odor

LS as above, with some scattered oolitic, some (<10% of tray) with scattered inter-oolite stain, dense with poor visible porosity, also found several small chips (<5%) cream, crypto-xln, lithographic to sub-oomoldic and dense with slightly vuggy porosity and very scattered light brown stain, stain increases to darker brown, mostly saturated matrix under lamp, upon break SSFO, dull to bright yellow fluor., SSFO in tray, poor odor

3351' 30" LS, cream to gray, micro-xln, mostly lithographic with some scattered oolitic, dense with poor visible porosity, with some scattered (~20%) cream, micro-xln, sub-oomoldic to lithographic with scattered pinpoint to slightly vuggy porosity with scattered brown stain in porosity and matrix, some dense, some fairly friable, stain increases to darker brown and mostly saturated matrix under lamp, upon break some chips have fair to good show free oil and slowly bleed oil to surface, FSFO in tray, dull to bright yellow fluor., fair fleeting odor

3351' 60" Mostly same as above, fair odor

3370' sample LS, cream, micro-xln, lithographic to fossiliferous with some sub-oolitic to oolitic, ~40% with poor to fair pinpoint to slightly vuggy porosity and scattered to mostly saturated stain, upon break most chips have S-FSFO and slight show gas bubbles in some, chips show fair inter-xln porosity and mostly saturated to saturated matrix, dull yellow fluor., SSFO in tray, good odor

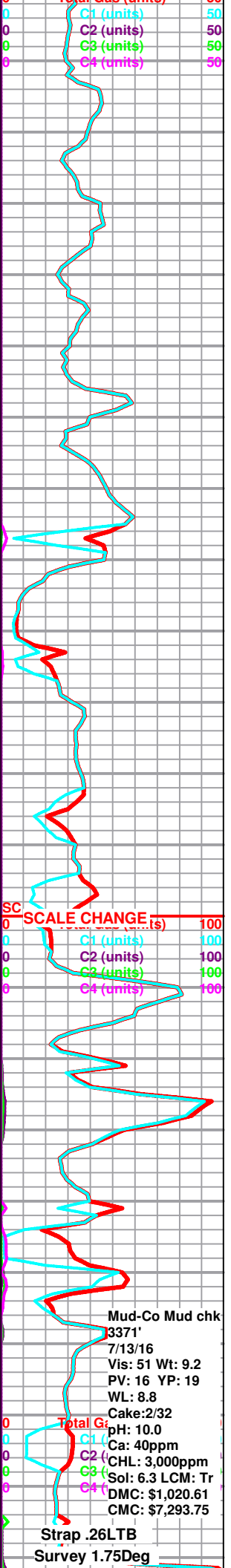
3371' 30" LS, cream, micro-xln, lithographic to fossiliferous with some scattered sub-oolitic to oolitic, some (~15%) with scattered fair pinpoint to slightly vuggy porosity and scattered brown stain, upon break some chips show fair inter-xln or inter-oolite staining and porosity and SSFO, some chips mostly saturated, scattered dull yellow fluor., fair odor

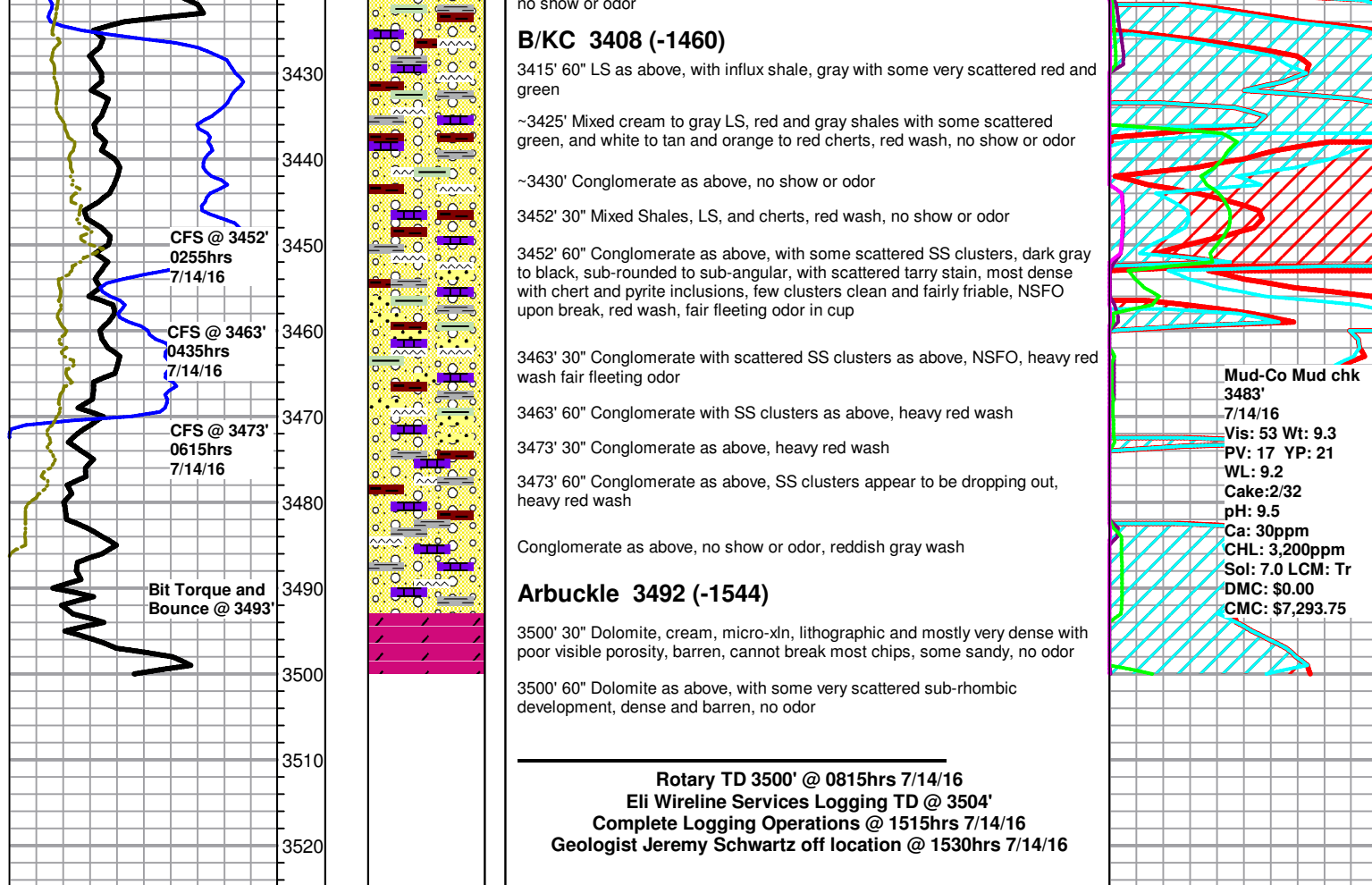
3371' 60" LS as above with shows mostly dropping out, NSFO in tray, fair odor

~3380' LS, cream to white with some scattered gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor

~3390' LS as above, some scattered with scattered to very scattered dead black gilsonian stain, no show or odor

3415' 30" LS, cream to white, lithographic and dense with poor visible porosity,






**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shelby Resources LLC

16-18s-14w Barton
 621 17th st
 STE 1155
 Denver Co 80293-1155
 ATTN: Chris Gottschalk Jer
Dale #1-16

Job Ticket: 65474

DST#: 1

Test Start: 2016.07.13 @ 14:30:44

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:36:54

Time Test Ended: 22:10:53

Interval: **3320.00 ft (KB) To 3415.00 ft (KB) (TVD)**

Total Depth: 3415.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 77

Reference Elevations: 1948.00 ft (KB)

1940.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8018 Inside

Press@RunDepth: 73.54 psig @ 3322.00 ft (KB)

Start Date: 2016.07.13 End Date: 2016.07.13

Start Time: 14:30:44 End Time: 22:10:53

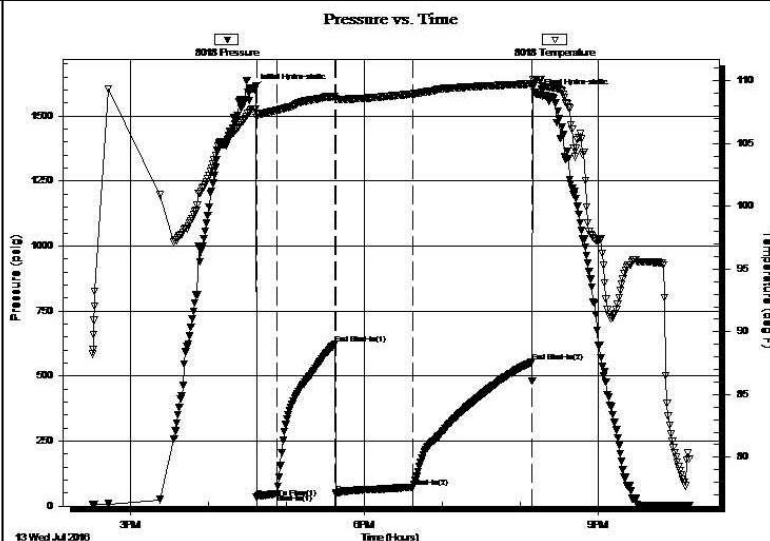
Capacity: 8000.00 psig

Last Calib.: 2016.07.13

Time On Btm: 2016.07.13 @ 16:34:24

Time Off Btm: 2016.07.13 @ 20:13:08

TEST COMMENT: 15-IFP-w k to a gd bl 1/2" to 6 1/2" bl
 45-ISIP-no bl
 60-FFP-w k to a strg bl in 40 min
 90-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.17	107.72	Initial Hydro-static
3	33.33	107.05	Open To Flow (1)
18	48.50	107.61	Shut-In(1)
64	625.16	108.74	End Shut-In(1)
64	49.68	108.55	Open To Flow (2)
124	73.54	108.94	Shut-In(2)
215	553.96	109.74	End Shut-In(2)
219	1583.69	110.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	190' GIP	0.00
62.00	HO&GCM 5%G25%O70%M	0.60
55.00	O&GCM 20%G10%O70%M	0.77

Gas Rates

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