M. Bradford Rine
Consulting Geologist, Licensed and Certified

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

Well Name: Dwyer-Simoneau #1-27
Location: NW-SE-SW-NE, Section 27 - 05S - 26W
License Number: API: 15-039-21178-00-00
Region: Decatur County, Kansas
Spud Date: June 11, 2013
Drilling Completed: June 17, 2013
Surface Coordinates: 2190'FNL & 1920'FEL, of Section
Field: Noone
Bottom Hole Coordinates: Vertcal Wellbore
P & A
Ground Elevation (ft): 2546 Ft.
K.B. Elevation (ft): 2557 Ft.
Logged Interval (ft): 3250 To: 3920 Ft.
Total Depth (ft): RTD 3920 Ft. LTD 3923 Ft.
Formation: Lower Pennsylvanian
Type of Drilling Fluid: Chemical

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

Operator

Company: Murfin Drilling Company, Inc.
Address: 250 North Water, Suite 300
Wichita, Kansas 67202 + 1216

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #415
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to plug and abandon the "Dwyer-Simoneau #1-27", on June 17, 2013.

Drilling Information

Rig: Murfin #2
Pump: Emsco D-375 6 x 14
Drawworks: Ideco H-35
Collars: 525' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Arturo Cabezas

Mud: Morgan Mud (Cade Lines)
Gas Detector: None
Drill Stem Tests: Trilobite (Wil Steinbeck)
Logs: Pioneer (Jerrod Long)
Water: Water Well on Location
Company Representatives:
Office: Michel Runnion
Field: None

Daily Drilling Status

Date:	Operations/Depth/Comments
06-11-13	MIRT, RU, Spud @ 0'
06-12-13	Drilling @ 381'
06-13-13	Drilling @ 2920'
06-14-13	Drilling @ 3610'
06-15-13	CFS @ 3705'
06-16-13	On Bottom/DST #3 @ 3800'
06-17-13	Completed Plugging Job @ 7:00 am

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface:
Ran 5 jts 8-5/8" 23#, talley 211', set @ 225'. (Allied) Cement with 165 sx Comm, 03% CC. Plug down at 5:30 AM 06/12. Cement did circulate.

Production: P & A as follows:
(Allied) Plugged with 25 sx @ 2200', 100 sx @ 1375', 40 sx @ 40', 30 sx in Rathole, 20 sx in Mousehole. Cement with 60/40 Poz, 04% gel, 1/4# Floseal. Job Completed 7:00 AM, June 17, 2013.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Jz	483FV	0	225	1
2	7-7/8	HTC	DP506	225	3212	25
3	7-7/8	HTC	GX20C	3212	3920	25

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
.50*	225'	.75*	2518'
.75*	972'	.75*	3687'
.75*	1508'	1.0*	3718'
.50*	2012'	1.0*	3920'

	Murfin Drilling Co., Inc			(Well A) Murfin Drilling Co., Inc.		
	Dwyer-Simoneau #1-27			SKRM #1-23		
	Section 27-05S-26W			Section 23-05S-26W		
	2557	KB		2534	KB	Well A
Formations	Sample	E-Log	Datum	E-Log	Datum	Comp.
Anyhdrite	N/C	2168	389	2133	401	-12
B/Anhydrite	N/C	2201	356	2166	368	-12
Topeka	3391	3389	-832	3350	-816	-16
Heebner Sh	3592	3590	-1033	3554	-1020	-13
Toronto	3615	3616	-1059	3578	-1044	-15
Lansing	3633	3631	-1074	3596	-1062	-12
B/Kansas City	3824	3824	-1267	3780	-1246	-21
Total Depth	3920	3923	-1366	4065	-1531	165

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste300
Wicjita Ks 67206
ATTN: Brad Rine

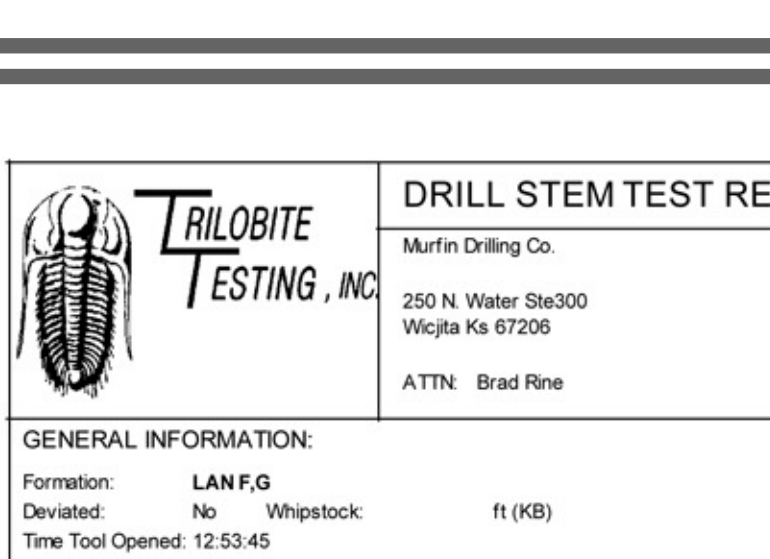
27-5s-26w
Dwyer-Simoneau #1-27
Job Ticket: 50684 DST#: 1
Test Start: 2013.06.14 @ 19:00:00

GENERAL INFORMATION:
Formation: Lan A,B,D
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:19:15
Time Test Ended: 02:59:45
Test Type: Conventional Bottom Hole (Initial)
Tester: Wilbur Steinbeck
Unit No: 68

Interval: 3621.00 ft (KB) To 3687.00 ft (KB) (TVD)
Total Depth: 3687.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2557.00 ft (KB) 2546.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8353 Outside
Press@RunDepth: 116.53 psig @ 3622.00 ft (KB)
Start Date: 2013.06.14 End Date: 2013.06.15
Start Time: 19:00:15 End Time: 02:59:45
Capacity: 8000.00 psig
Last Calib.: 2013.06.15
Time On Btm: 2013.06.14 @ 21:17:00
Time Off Btm: 2013.06.15 @ 01:18:30

TEST COMMENT: 30 IF; Built to 2"
60 ISI; No Blow
60 FF; Built to 3"
90 FSI; No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1823.91	103.87	Initial Hydro-static
3	22.69	103.54	Open To Flow (1)
29	58.67	104.51	Shut-In(1)
90	1189.27	104.82	End Shut-In(1)
90	63.59	104.73	Open To Flow (2)
150	116.53	105.48	Shut-In(2)
239	1140.65	106.18	End Shut-In(2)
242	1735.00	106.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	Mud	1.03

Gas Rates

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

Trilobite Testing, Inc Ref. No: 50684 Printed: 2013.06.15 @ 06:00:43

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste300
Wicjita Ks 67206
ATTN: Brad Rine

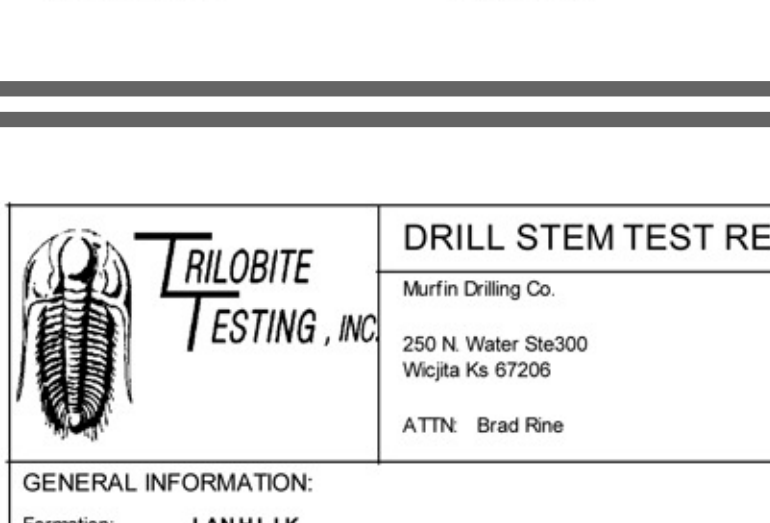
27-5s-26w
Dwyer-Simoneau #1-27
Job Ticket: 50685 DST#: 2
Test Start: 2013.06.15 @ 10:48:00

GENERAL INFORMATION:
Formation: LAN F,G
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:53:45
Time Test Ended: 18:20:30
Test Type: Conventional Bottom Hole (Reset)
Tester: Wilbur Steinbeck
Unit No: 68

Interval: 3677.00 ft (KB) To 3718.00 ft (KB) (TVD)
Total Depth: 3718.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2557.00 ft (KB) 2546.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8353 Outside
Press@RunDepth: 90.55 psig @ 3678.00 ft (KB)
Start Date: 2013.06.15 End Date: 2013.06.15
Start Time: 10:48:15 End Time: 18:20:30
Capacity: 8000.00 psig
Last Calib.: 2013.06.15
Time On Btm: 2013.06.15 @ 12:53:00
Time Off Btm: 2013.06.15 @ 16:56:45

TEST COMMENT: 30 IF; Built to 2 1/2"
60 ISF; No Blow
60 FF; Built to 2"
90 FSI; No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1850.85	104.07	Initial Hydro-static
1	27.35	103.09	Open To Flow (1)
31	48.38	103.88	Shut-In(1)
93	1109.45	104.74	End Shut-In(1)
93	54.79	104.59	Open To Flow (2)
153	90.55	105.14	Shut-In(2)
243	1064.51	105.81	End Shut-In(2)
244	1801.94	106.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MCW 35%M 65%W	0.74

* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc Ref. No: 50685 Printed: 2013.06.15 @ 22:51:11

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste300
Wicjita Ks 67206
ATTN: Brad Rine

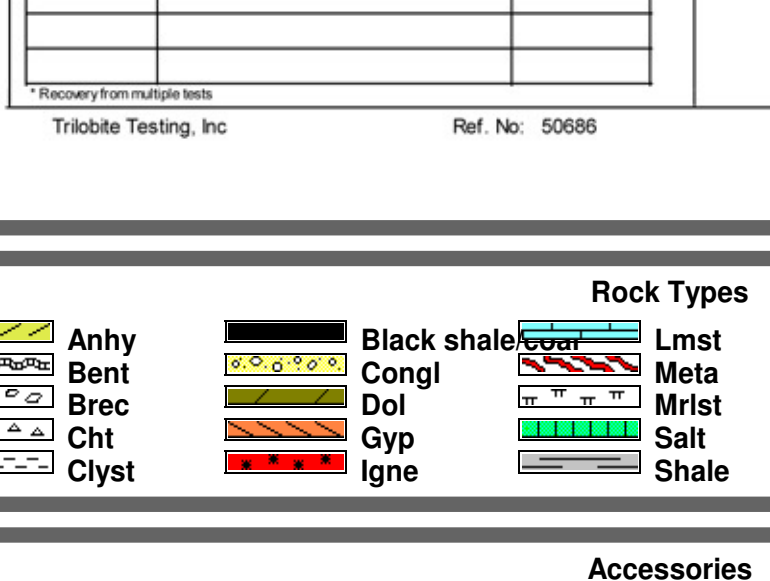
27-5s-26w
Dwyer-Simoneau #1-27
Job Ticket: 50686 DST#: 3
Test Start: 2013.06.16 @ 04:00:00

GENERAL INFORMATION:
Formation: LAN H,I,J,K
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:11:00
Time Test Ended: 10:54:30
Test Type: Conventional Bottom Hole (Reset)
Tester: Wilbur Steinbeck
Unit No: 68

Interval: 3725.00 ft (KB) To 3800.00 ft (KB) (TVD)
Total Depth: 3800.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2557.00 ft (KB) 2546.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8353 Outside
Press@RunDepth: 37.83 psig @ 3726.00 ft (KB)
Start Date: 2013.06.16 End Date: 2013.06.16
Start Time: 04:00:15 End Time: 10:54:30
Capacity: 8000.00 psig
Last Calib.: 2013.06.16
Time On Btm: 2013.06.16 @ 06:10:30
Time Off Btm: 2013.06.16 @ 09:12:30

TEST COMMENT: 30 IF; Built to 3/4"
60 ISI; No Blow
30 FF; No Blow
60 FSI; No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1869.16	104.64	Initial Hydro-static
1	17.43	104.27	Open To Flow (1)
28	26.03	104.49	Shut-In(1)
87	1057.74	105.37	End Shut-In(1)
88	28.89	105.22	Open To Flow (2)
116	37.83	105.53	Shut-In(2)
180	984.62	106.22	End Shut-In(2)
182	1834.83	106.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc Ref. No: 50686 Printed: 2013.06.17 @ 02:50:51

Rock Types

Anhy, Bent, Brec, Cht, Clyst, Black shale/coal, Congl, Dol, Gyp, Igne, Lmst, Meta, Mrlst, Salt, Shale, Shcol, Shgy, Sltst, Ss, Till, Sltysh, Shlysltst, Sandyls

Accessories

MINERAL: Anhy, Arggrn, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chtdk, Chtlt, Dol, Feldspar, Ferrpel, Ferr, Glau, Gyp, Hvymin, Kaol, Marl, Minxl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff

FOSSIL: Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom

STRINGER: Anhy, Arg, Bent, Coal, Dol, Gyp, Ls, Mrst

TEXTURE: Boundst, Chalky, Cryxln, Earthy, Finexln, Grainst, Lithogr, Microxln, Mudst, Packst, Wackest

Sltstrg, Ssstrg

Other Symbols

OIL SHOW: Gas show, Even, Spotted, Trace/ques, Dead, Gas

INTERVAL: Core, Dst

ROP (min/ft)	Depth	Lithology	Shows	Geological Descriptions	Remarks
ROP (min/ft) 0–15	2100				
	50			* No definitive penetration rate distinction across Anhydrite!	
< Anhydrite (e-log)				<-------------------- 2168 (+389)	(E-Log)
				Anhydrite Interval, based on E-log only!	
< B/Anhydrite (e-log)	2200			<-------------------- 2201 (+356)	(E-Log)
*** Depth Break ***					
ROP (min/ft) 0–15	3200				Mud Check, Drlg @ 3200': Vis 85, Wt 8.6, WL 6.8, LCM 2, PV 29, YP 25; Chl 1100, Hd 10, pH 12.0, Solids 2.2
					New Bit @ 3212 Ft!
	3250				
conn				75% Silty Ls, pl gy, chalky in pt; 25% silty shales, red-gy	
conn	3300			Ls cr-pl gy, fn xln, silty text in pt, pr xln por, foss in pt	
				Sh red-gy, earthy to subsilty text	
				Ls wh-cr-pl gy, fn xln, fn xln, pr-fr xln por in pt, chalky and soft in pt, foss in pt	
conn				Sh red-gy mushy in pt (washes red)	
	3350			Ls cr-gy, fn xln, mostly dns, some dolom text, Rr foss	
				Sh gy	
				Ls gy-grnish, silty-dolom text in pt, scatt subchalky, pr vis xln por	
conn				[No Show]	
< CFS				Ls cr, fn xln, mealy text, ool-packed ool (fine) pr-fr-gd interool por, pr-fr-gd crush	
				[No Odor, No Four, 99% barren with Rr scatt black resid spots]	
< TOPEKA				<-------------------- 3391 (-834)	
ROP (min/ft) conn	3400			Ls wh-cr, fn xln, ool (fn-md) some well cem with scatt interool pores	
				[No Show]	
				Sh gy-red	
				Ls wh-cr, fn xln, chalky to subchalky, foss	
				Sh gy-red	
conn				Ls cr-pl gy, fn xln, pr-fr xln por in pt, chalky in pt	
	3450			Ls wh-cr-gy, fn xln, chalky & soft in pt, fn xln & ool in pt, scatt interool pores	
conn				Ls wh-cr, fn xln, dns, chalky in pt, foss	
				Silty shale to shaley siltstone, shale gy-cr-wh, mushy to soft	
conn	3500				
				Ls wh-cr, mushy & chalky in pt, dns & firm in pt, scatt calcite patches, sli foss in pt	
conn				Ls cr, fn xln, ool in pt (mostly well-cem)	
				sh gy-red (washes red)	
				trace of black shale	
	3550			Ls wh-cr-gy, mushy & chalky in pt, fn xln with scatt pr-fr xln por in pt	
conn				[No Show]	
				interbedded with shale red-gy-grn, mushy (washes red)	
				Ls wh-cr, fn xln, pr xln por to dns, foss in pt	
				Ls wh-cr-pl gy, fn xln, dns in pt, pr xln por in pt, chalky & mushy in pt (washes white)	
conn < HEEBNER SH				<-------------------- 3592 (1035)	
				Sh black, carb (abund in 3610' spl)	
ROP (min/ft)	3600			Sh gy-red-grn	7:00 AM, June 14, 2013
< TORONTO				<-------------------- 3615 (-1058)	DST #1: 3621-3687 (Lsg A,B,D)
< CFS & conn				Ls cr-pl gy, fn xln, pr-fr xln por in pt, scatt pp por, scatt foss vugs, fn-gd crush, foss, ool in pt	Times: 30-60-60-90
				[No Show]	Initial Blow: Wk, built to 2" i.b.
				Sh red-gy, mushy-to earthy (washes red)	Final Blow: Wk, built to 3.5" i.b.
< LANSING				<-------------------- 3633 (-1076)	Rec: 210' mud
		A		Ls wh-cr, fn xln, soft & chalky in pt, dns & firm in pt, Low % of spls with patches & pcs of pp & vug por, foss in pt, ool in pt (well-cem)	IHP: 1824 FHP: 1735
				[No Odor, No Fluor, Low % pcs with patchy to Rr even Dk Brn Hvy Oil Stn or Dead Oil to NVL Oil, Rr sli gassy in pt]	IFP: 23-59 FFP: 64-117
< CFS	3650				ISIP: 1189 FSIP: 1141
				Sh red-grn (washes red)	BHT: 106°F
conn				Ls wh-cr, fn xln, pr xln pr, scatt pp & vug por, micro-ool in pt	Mud Check, CFS @ 3650': Vis 106, Wt 9.1, WL 6.8, LCM 6, PV 29, YP 30; Chl 900, Hd 10, pH 11.0, Solids 5.7
		B		[No Odor, No Fluor, where porous: Dk Hvy Stn, mostly Tarry Oil, NVL Oil & Rr lighter brn FO]	
< CFS				Ls wh-cr, fn xln, much mush, dns, some subchalky, scatt patches & pcs with pr xln por and scatt pp/vug por, abund foss-packed foss with	

scatt interfoss pores, ool in pt Rr chert: fresh, cr, opaq

[V Fnt Odor, Scatt dull Fluor, Scatt spots, patches & pcs with lt brn stn, Sli shows of oily film and Sli shows of Lt brn FO, Lwr in D had scatt dk hvy stn with fr show dk NVL oil and sli show brn FO]

* Pipe Strap @ 3687 ft: 01-ft long

Sh gy-grn-red (washes red)

Ls wh-cr, fn xln, mostly dns, foss

[No Odor, No Fluor, NSFO, Rr patches of yellowish-tan stn]

Mud Check, OB/DST 2 @ 3718':

Vis	Wt	WL	LCM	PV	YP
72	9.2	6.4	5	26	20

Chl	Hd	pH	Solids
1300	10	10.0	6.4

7:00 AM, June 15, 2013

Sh red-grn-gy (washes red)

Ls wh, fn xln, mostly packed foss & packed ool with Moderate am't of fr-gd interfoss & interool por, fr-gd crush

[Fnt Odor, abund dull Fluor, Abund tan-lt brn patchy-even stn, abund pcs with sli shows of lt brn-brn FO and fr am't oily film on brk]

DST #2: 3677-3718 (Lsg F,G)
Times: 30-60-60-90
Initial Blow: Wk, built to 2.5" i.b.
Final Blow: Wk, built to 2" i.b.
Rec: 150' MCW: 65% w 35% m
(Tester Chl/6000ppm; Mudman 48000ppm)
IHP: 1851 FHP: 1802
IFP: 27-48 FFP: 55-91
ISIP: 1109 FSIP: 1065
BHT: 107*F

Ls wh- vfn-fn xln, dns, cherty: fresh, white, opaq

Sh mostly red-gy-grn, some black carb

Ls wh-cr, fn xln, mostly dns, some rr patches of pr xln por, some ool: mostly well-cem with scatt patches of pr interool por, foss

[No Odor, Rr scatt dull Fluor, low % pcs with marbled-patchy lt brn stn with v sli show of oily film and FO on brk]

Ls wh-cr, vfn-fn xln, dns, foss

Sh red-gy-grn, black shale?

Ls brn-gy, fn xln, foss

sh red-gy-grn, mushy-pastey (washes thick red)

DST #3: 3725-3800 (LKC H,J,K)
Times: 30-60-30-60
Initial Blow: V Wk, built to 0.5" i.b.
Final Blow: None
Rec: 05' mud
IHP: 1869 FHP: 1835
IFP: 17-26 FFP: 29-38
ISIP: 1058 FSIP: 985
BHT: 107*F

Ls wh, fn xln, submealy text in pt with pr xln por & scatt to abund pp por in pcs, dns in pt, foss-abund foss, becomes more dns with depth

[No Odor, Scatt V dull fluor, spotty to patchy brn stn, sli shows of wettish oily film & trace-sli shows of brn FO on brk]

Sh red, mushy-gooey (washes hvy red)

Ls wh-cr-gy, vfn-fn xln, mostly dns, some chalky-subchalky, Rr scatt patches of pr xln por, Rr scatt isolated sm vugs (some vugs filled with red shale, foss in pt

[No Odor, No Fluor, Rr sm vugs with dk brn stn, NSFO]

7:00 AM, June 16, 2013

Ls wh-cr, fn xln, 99% dns, Rr patches of pr xln por, foss

[No Odor, No Fluor, Rr (less than 01% of pcs) with patches of spotty brn stn, found few pcs with trace show FO on brk]

Ls wh-cr, fn xln, dns & firm to soft & subchalky, sli foss in pt

<------------------------------ 3824 (-1267)

Mudcheck, drlg @ 3821':

Vis	Wt	WL	LCM	PV	YP
68	9.2	7.2	4	26	19

Chl	Hd	pH	Solids
2400	10	10.0	6.4

Sh red-gy-pl grn, earthy-subsilty-submic, mushy-soft-subfirm

Ls wh-gy, fn xln, grainy text in pt, dns, foss in pt; interbedded with red mushy shales with some grn-gy shale

Sh mostly red mushy (washes red) some gr-grnish

Ls wh-gy, fn xln, grainy text in pt, dns, foss in pt

Sh pink-red-lavendar, some gy, mushy-soft (washes pale red)

Ls wh-gy, fnxln-fngrn, dns subvitreous text to dns grainy text, some marbling of red clay

Sh red-lavender-maroon, rr gy, mushey-soft (washes hvy purplish/red) mod am't of dns ls in spls

RTD 3920 Ft. @ 5:20 PM, June 16, 2013