

OPERATOR

Company: Falcon Explortation, Inc.
 Address: 125 N. Market Suite 1252
 Wichita, KS 67202
 Contact Geologist: Brian Fisher
 Contact Phone Nbr: 316-262-1378
 Well Name: Nightgale #1-6 (NW)
 Location: Sec 6 - T28S - R30W
 Pool: _____
 State: Kansas
 API: 15-069-20395-0000
 Field: Wildcat
 Country: USA

Scale 1:240 Imperial

Well Name: Nightgale #1-6 (NW)
 Surface Location: Sec 6 - T28S - R30W
 Bottom Location: _____
 API: 15-069-20395-0000
 License Number: 5316
 Spud Date: 9/15/2012 Time: 00:00
 Region: Gray County
 Drilling Completed: 9/23/2012 Time: 17:45
 Surface Coordinates: 2050' FNL & 2050' FWL
 Bottom Hole Coordinates: _____
 Ground Elevation: 2835.00ft
 K.B. Elevation: 2844.00ft
 Logged Interval: 2600.00ft To: 5450.00ft
 Total Depth: 5450.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: _____ Latitude: _____
 N/S Co-ord: 2050' FNL
 E/W Co-ord: 2050' FWL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530
 Phone Nbr: 620-617-4091
 Logged By: KLG #136 Name: Keith Reavis

CONTRACTOR

Contractor: Tomcat Drilling
 Rig #: 4
 Rig Type: mud rotary
 Spud Date: 9/15/2012 Time: 00:00
 TD Date: 9/23/2012 Time: 17:45
 Rig Release: _____ Time: _____

ELEVATIONS

K.B. Elevation: 2844.00ft Ground Elevation: 2835.00ft
 K.B. to Ground: 9.00ft

NOTES

Due to negative drill stem test results in the Morrow and Mississippian, it was determined by all parties that the Nightingale #1-6 be plugged and abandoned as a dry hole.

A Bloodhound gas detector operated by Bluestem Environmental was employed on this well. The ROP and gas data were imported into this mudlog, along with the gamma ray and caliper from the electrical log suite. The electrical log tops were generally 6 to 11 ft lower than sample/drill time tops. The curves were not shifted to provide an exact match, but rather left as recorded.

The samples from this well were saved and will be available for review at Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
 Keith Reavis

Falcon Exploration, Inc.
daily drilling report

DATE	7:00 AM DEPTH	REMARKS
09/20/2012	2024	Geologist Keith Reavis on location @ 1230 hrs, 2187 ft., drilling ahead Permian - check Bloodhound system, replace extractor
09/21/2012	2840	drilling ahead, Permian, Chase group, Ft. Riley, Neva, Foraker, Stotler
09/22/2012	3925	drilling ahead, Tarkio, Bern, Topeka, Heebner, Douglas, Lansing, Stark
09/23/2012	5054	drilling ahead Marmaton, Pawnee, Cherokee, Morrow, Mississippian, TD @ 5450 ft. 1745 hrs, cfs, short trip, ctch, TOH for e-logs
09/24/2012	5450	TOH for logs, conduct and complete logging operations, run straddle test on St. Louis, successful test, back in with bit, condition hole
09/25/2012	5450	TOH, in with tools, straddle test (DST #2) Morrow sand, successful test, geologist released @ 1250 hrs

Falcon Exploration, Inc.
well comparison sheet

DRILLING WELL					COMPARISON WELL			
Nightingale #1-6					Falcon - Smith #1-5			
2050' FNL & 2050' FWL					1460' FNL & 330' FWL			
Sec 6-T28S-R30W					Sec 5-T28S-R30W			
2844 KB					2832 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Chase	2668	176	2681	163	2673	159	17	4
Ft. Riley	2842	2	2853	-9	2852	-20	22	11
Neva	3171	-327	3179	-335	3181	-349	22	14
Foraker	3289	-445	3294	-450	3286	-454	9	4
Stotler	3526	-682	3532	-688	3530	-698	16	10
Tarkio	3597	-753	3604	-760	3602	-770	17	10
Bern	3689	-845	3701	-857	3700	-868	23	11
Topeka	3794	-950	3799	-955	3800	-968	18	13
Heebner	4126	-1282	4134	-1290	4140	-1308	26	18
Lansing	4223	-1379	4230	-1386	4236	-1404	25	18
Stark	4580	-1736	4591	-1747	4590	-1758	22	11
Marmaton	4723	-1879	4725	-1881	4738	-1906	27	25
Pawnee	4813	-1969	4821	-1977	4822	-1990	21	13
Cherokee	4854	-2010	4862	-2018	4870	-2038	28	20
Morrow	5056	-2212	5066	-2222	5070	-2238	26	16
Morrow Sand	5060	-2216	5069	-2225	5078	-2246	30	21
St. Gen	5179	-2335	5189	-2345	5192	-2360	25	15
St. Louis	5270	-2426	5276	-2432	5284	-2452	26	20
Salem	nr	-	-	-	5475	-2643	-	-
Total Depth	5450	-2606	5458	-2614	5552	-2720	114	106

DST #1 (straddle)



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: NIGHTINGALE1-6NWDST1

TIME ON: 13:48
 TIME OFF: 23:24

Company FALCON EXPLORATION, INC. Lease & Well No. NIGHTINGALE #1-6 (NW)
 Contractor TOMCAT DRILLING CO. RIG #4 Charge to FALCON EXPLORATION, INC.
 Elevation 2844 KB Formation MISSISSIPPIAN Effective Pay _____ Ft. Ticket No. T100
 Date 9-24-12 Sec. 6 Twp. 28 S Range 30 W County GRAY State KANSAS
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 5270 ft. to 5330 ft. Total Depth 5458 ft.
 Packer Depth 5270 ft. Size 6 3/4 in. Packer depth 5330 ft. Size 6 3/4 in.
 Packer Depth _____ ft. Size 6 3/4 in. Packer depth 5335 ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5226 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 5327 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
 Below Straddle Recorder Depth 5455 ft. Recorder Number 11030 Cap. 5,025 P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length 177 ft. I.D. 2 1/4 in.
 Weight 9.5 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3,000 P.P.M. Drill Pipe Length 5065 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 4 Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 29 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1/4 INCHES (NOBB)
 2nd Open: NO BLOW THROUGHOUT PERIOD. (NOBB)

Recovered 60 ft. of MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Price Job _____
 Other Charges _____
 Insurance _____

Remarks: 12 MIN. INTO FINAL FLOW, WE FLUSHED TOOL & JUST GOT SURGE BLOW.

THE BOTTOM RECORDER PRESSURE WAS 2422 PSI.

TOOL SAMPLE: 100% MUD

Time Set Packer(s)	5:02 PM	A.M. P.M.	Time Started Off Bottom	7:13 PM	A.M. P.M.	Maximum Temperature	130 deg.
Initial Hydrostatic Pressure			(A)	2542 P.S.I.			
Initial Flow Period	Minutes	5	(B)	8 P.S.I. to (C)		14 P.S.I.	
Initial Closed In Period	Minutes	90	(D)	1502 P.S.I.			
Final Flow Period	Minutes	23	(E)	17 P.S.I. to (F)		39 P.S.I.	
Final Closed In Period	Minutes	13	(G)	1305 P.S.I.			
Final Hydrostatic Pressure			(H)	2541 P.S.I.			



DST #2 (straddle)

DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: NIGHTINGALE1-6NW DST2

TIME ON: 08:04
 TIME OFF: 16:06

Company **FALCON EXPLORATION, INC.** Lease & Well No. **NIGHTINGALE #1-6 (NW)**
 Contractor **TOMCAT DRILLING CO. RIG #4** Charge to **FALCON EXPLORATION, INC.**
 Elevation **2844 KB** Formation **MORROW SD.** Effective Pay _____ Ft. Ticket No. **T101**
 Date **9-25-12** Sec. **6** Twp. _____ 28 S Range **30 W** County **GRAY** State **KANSAS**
 Test Approved By **KEITH REAVIS** Diamond Representative **TIMOTHY T. VENTERS**

Formation Test No. **2** Interval Tested from **5063 ft.** to **5095 ft.** Total Depth **5458 ft.**
 Packer Depth **5063 ft.** Size **6 3/4 in.** Packer depth **5095 ft.** Size **6 3/4 in.**
 Packer Depth _____ ft. Size **6 3/4 in.** Packer depth **5100 ft.** Size **6 3/4 in.**

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ 5049 ft. Recorder Number **8457** Cap. _____ 10,000 P.S.I.
 Bottom Recorder Depth (Outside) _____ 5092 ft. Recorder Number **11029** Cap. _____ 5,025 P.S.I.
 Below Straddle Recorder Depth _____ 5455 ft. Recorder Number **11030** Cap. _____ 5,025 P.S.I.

Mud Type **CHEMICAL** Viscosity **50** Drill Collar Length **177 ft.** I.D. **2 1/4 in.**
 Weight **9.5** Water Loss **8.0** cc. Weight Pipe Length **0 ft.** I.D. **2 7/8 in.**
 Chlorides **3,000 P.P.M.** Drill Pipe Length **4858 ft.** I.D. **3 1/2 in.**
 Jars: Make **STERLING** Serial Number **4** Test Tool Length **28 ft.** Tool Size **3 1/2-IF in.**
 Did Well Flow? **NO** Reversed Out **NO** Anchor Length **32 ft.** Size **4 1/2-FH in.**
 Main Hole Size **7 7/8** Tool Joint Size **4 1/2 XH in.** **363 TP** Surface Choke Size **1 in.** Bottom Choke Size **5/8 in.**

Blow: 1st Open: **WEAK SURFACE BLOW THROUGHOUT PERIOD. (NOBB)**
 2nd Open: **VERY WEAK SURFACE BLOW LASTING 6 MIN. (NOBB)**

Recovered **30 ft.** of MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

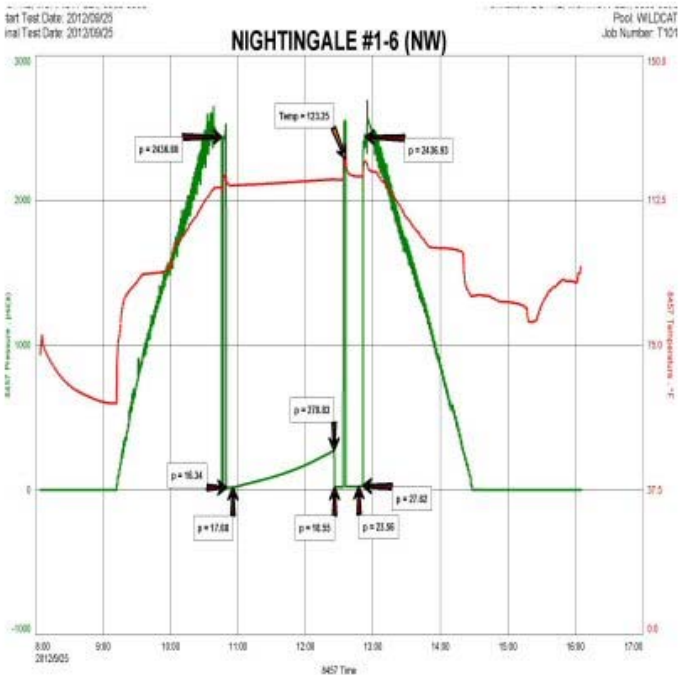
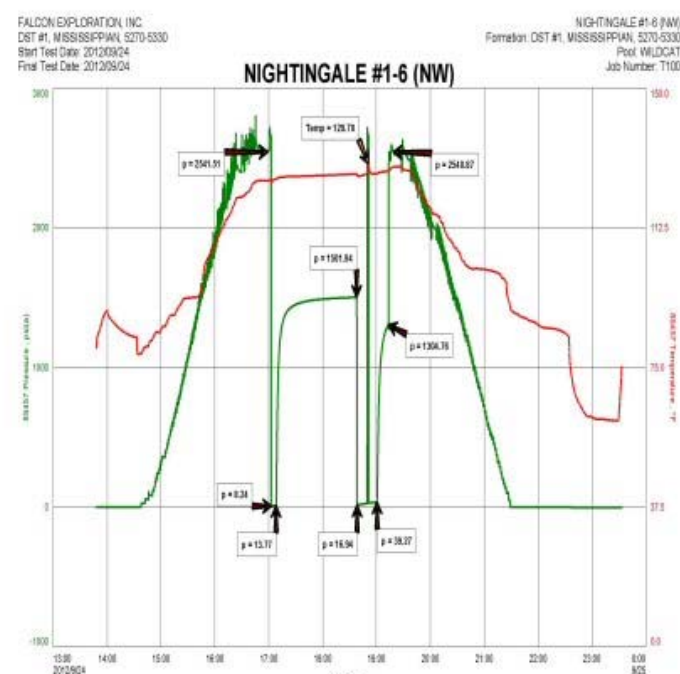
Remarks: **10 MIN. INTO FINAL FLOW, WE FLUSHED TOOL & JUST GOT SURGE BLOW.**

THE BOTTOM RECORDER PRESSURE WAS 2359 PSI.

TOOL SAMPLE: TRACE OIL, 100% MUD

Time Set Packer(s)	10:49 AM	A.M. P.M.	Time Started Off Bottom	12:49 PM	A.M. P.M.	Maximum Temperature	123 deg.
Initial Hydrostatic Pressure			(A)	2437 P.S.I.			
Initial Flow Period	Minutes	5	(B)	16 P.S.I. to (C)		18 P.S.I.	
Initial Closed In Period	Minutes	90	(D)	271 P.S.I.			
Final Flow Period	Minutes	20	(E)	19 P.S.I. to (F)		24 P.S.I.	
Final Closed In Period	Minutes	5	(G)	28 P.S.I.			
Final Hydrostatic Pressure			(H)	2437 P.S.I.			

DST Charts



ROCK TYPES

Clystgy	sdylmst	shale, grn	shale, red
Dolprim	Lmst fw<7	shale, gry	Ss
Dolsec	Lmst fw>7	Carbon Sh	Sltst

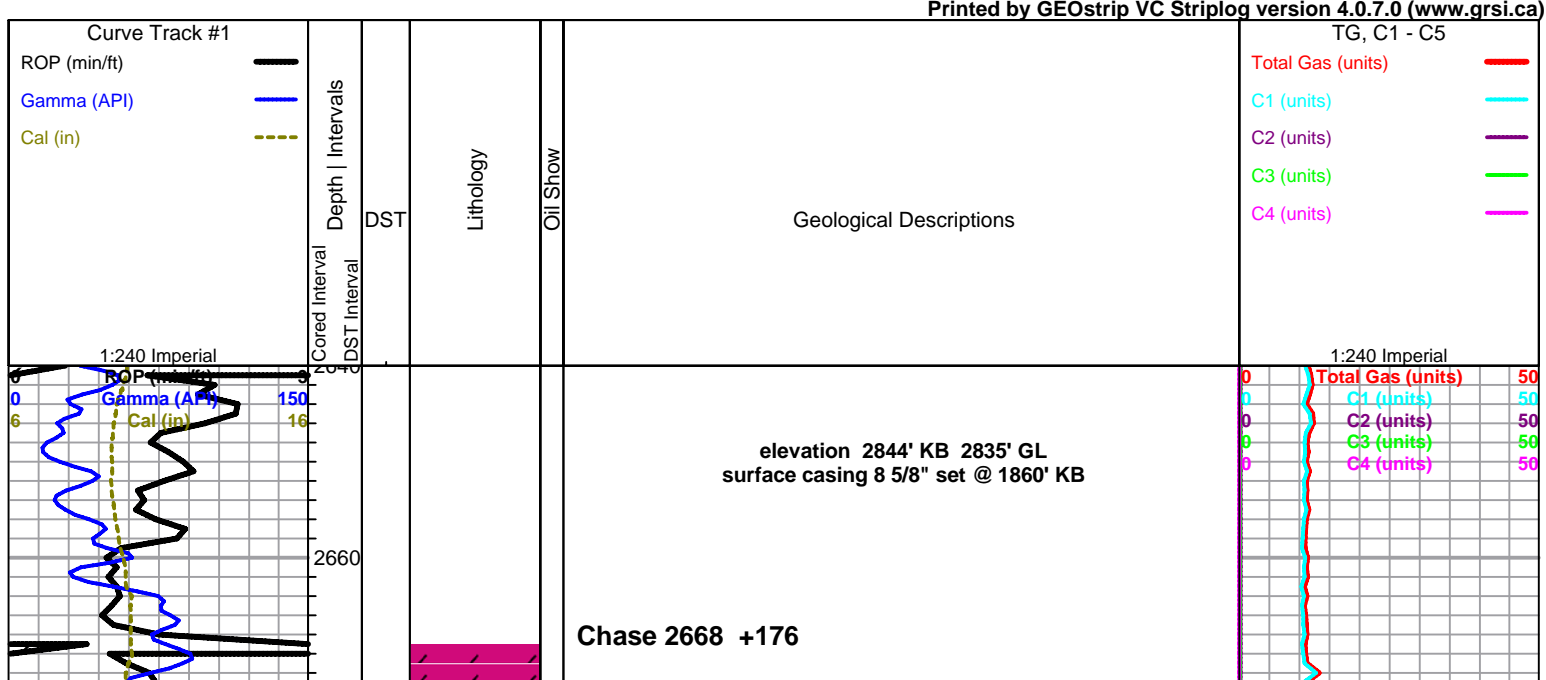
ACCESSORIES

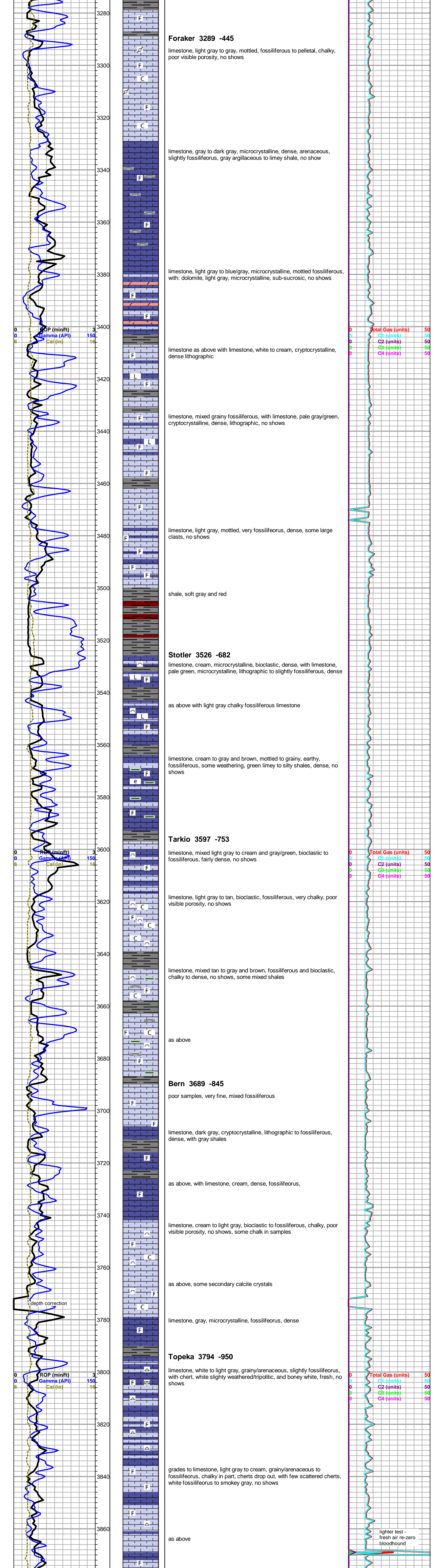
MINERAL	FOSSIL	STRINGER	TEXTURE
<ul style="list-style-type: none"> Argillaceous Chert, dark Chert, tripolitic Dolomitic Pyrite Chert White Argillaceous/Shale 	<ul style="list-style-type: none"> Bioclastic or Fragmental Fossils < 20% Oolite Pellets Oomoldic 	<ul style="list-style-type: none"> Dolomite Limestone Sandstone Siltstone Shale green shale red shale carb shale 	<ul style="list-style-type: none"> Chalky Earthy Lithogr

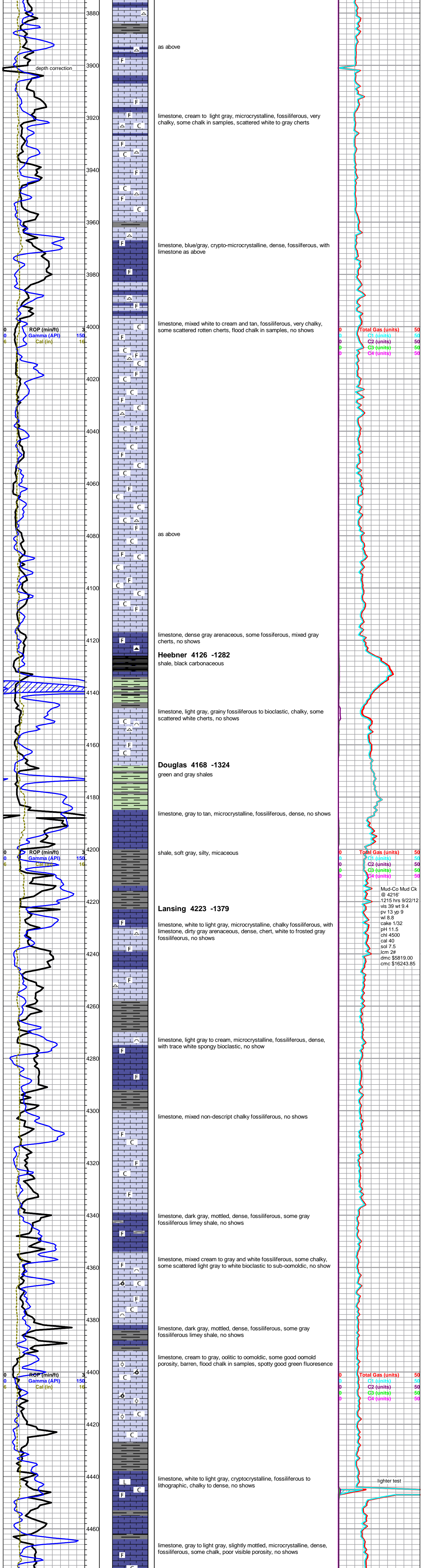
OTHER SYMBOLS

MISC	DST
<ul style="list-style-type: none"> Daily Report Digital Photo Document Folder Link Vertical Log File Horizontal Log File Core Log File Drill Cuttings Rpt 	<ul style="list-style-type: none"> DST Int DST alt Core tail pipe

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)







as above

limestone, cream to light gray, microcrystalline, fossiliferous, very chalky, some chalk in samples, scattered white to gray cherts

limestone, blue/gray, crypto-microcrystalline, dense, fossiliferous, with limestone as above

limestone, mixed white to cream and tan, fossiliferous, very chalky, some scattered rotten cherts, flood chalk in samples, no shows

as above

limestone, dense gray arenaceous, some fossiliferous, mixed gray cherts, no shows

Heebner 4126 -1282

shale, black carbonaceous

limestone, light gray, grainy fossiliferous to bioclastic, chalky, some scattered white cherts, no shows

Douglas 4168 -1324

green and gray shales

limestone, gray to tan, microcrystalline, fossiliferous, dense, no shows

shale, soft gray, silty, micaceous

Lansing 4223 -1379

limestone, white to light gray, microcrystalline, chalky fossiliferous, with limestone, dirty gray arenaceous, dense, chert, white to frosted gray fossiliferous, no shows

limestone, light gray to cream, microcrystalline, fossiliferous, dense, with trace white spongy bioclastic, no show

limestone, mixed non-descript chalky fossiliferous, no shows

limestone, dark gray, mottled, dense, fossiliferous, some gray fossiliferous limy shale, no shows

limestone, mixed cream to gray and white fossiliferous, some chalky, some scattered light gray to white bioclastic to sub-oomoldic, no show

limestone, dark gray, mottled, dense, fossiliferous, some gray fossiliferous limy shale, no shows

limestone, cream to gray, oolitic to oomoldic, some good oomold porosity, barren, flood chalk in samples, spotty good green fluorescence

limestone, white to light gray, cryptocrystalline, fossiliferous to lithographic, chalky to dense, no shows

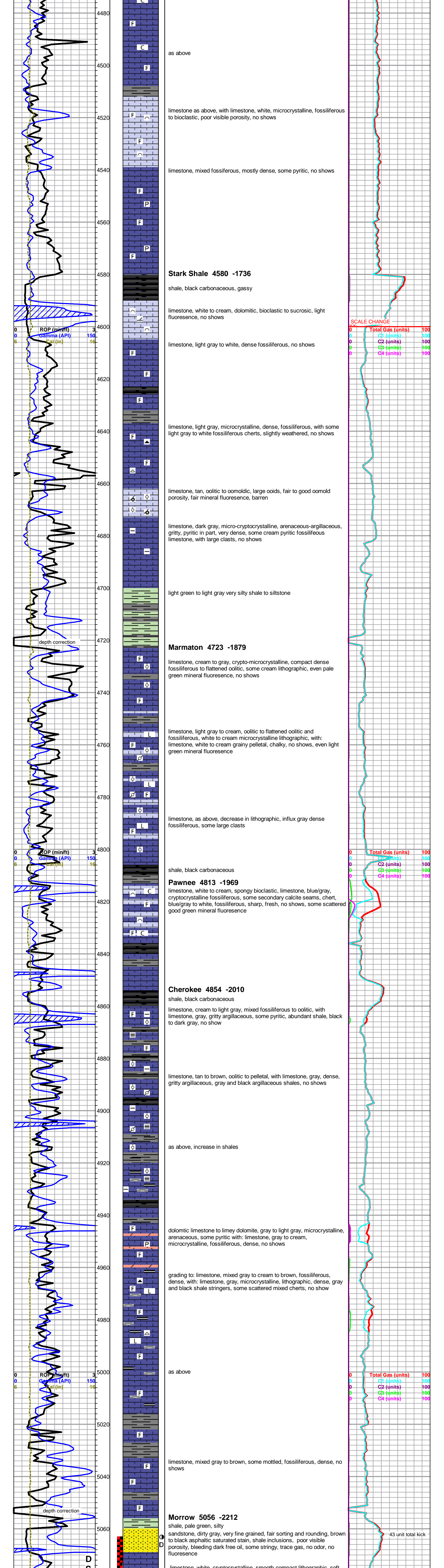
limestone, gray to light gray, slightly mottled, microcrystalline, dense, fossiliferous, some chalk, poor visible porosity, no shows

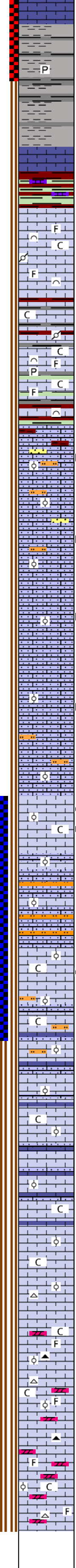
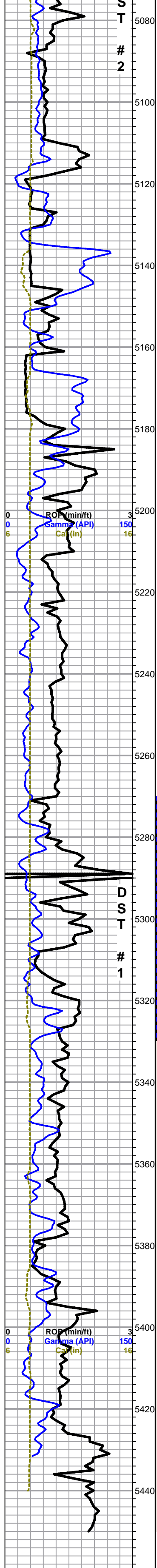
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1	C1 (units)	50
0	C2 (units)	50
0	C3 (units)	50
0	C4 (units)	50

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

Mud-Co Mud Ck
 @ 4216'
 1215 hrs 9/22/12
 vis 39 wt 9.4
 pv 13 yp 9
 wl 8.8
 cake 1/32
 pH 11.5
 chl 4500
 cal 40
 sol 7.5
 lcm 2#
 dmc \$5819.00
 cmc \$16243.85

lighter test





light gray dense calcareous smooth shale to claystone, some slightly pyritic
 DST #2.pdf

limestone, dark gray-black, dense, cherty, in 5160 sample, trace very fine grain, dense black asphaltic sand

shales, green to red, soft to silty, with some green dense weathered limestone, trace pyritic, with flood limestone in 5180 sample, white to tan and gray, grainy fossiliferous/bioclastic to pelletal, chalky, poor visible porosity, no shows, some faint fluorescence

limestone as above, abundant red and green shales, some loose pyrite crystals, no shows

as above, red and green shale increase, some red dense reworked limestones

Mississippian St. Gen 5179 -2335

limestone, light gray to white to pale green, micro-oolitic, sandy, spotty to saturated light brown to black dead stain, no show free oil, no odor, some scattered white to green very fine grain sandstone to siltstone, well rounded and sorted, well cemented to friable, trace stain, no show free oil or fluorescence

as above, sandstone and siltstone dropping out, some scattered sandy larger more mature oolitic

as above, marked decrease in staining, some pale green siltstone

St. Louis 5270 -2426

limestone, white, mature oolitic, light brown staining, chalky, poor interoolite porosity, no odor, show free oil droplets and sheen on break, spotty fluorescence, fair cut on break of sample only

limestone, white to cream chalky oolitic, some sandy, with light gray sandy, micro-oolitic, dense light gray/green sandy limestone to siltstone
 DST #1.pdf

limestone, chalky oolitic, mature to flattened, some fossiliferous, no visible shows or fluorescence, few small stained pieces that could lag back to here from the 5360 sample, fair inter-oolite porosity, no free oil, no odor, too small to cut

limestone, white to cream chalky oolitic, some sandy, some glauconitic, with light gray sandy, micro-oolitic, dense light gray/green sandy limestone to siltstone, limestone, dense gray/green cryptocrystalline, lithographic, some glauconitic, no shows

as above, oolitic and sandy facies more glauconitic, some white chalky fossiliferous, siltstones drop out, no shows

as above

increase white chalky fossiliferous, influx some chalk and sucrosic limestone, some scattered small shards white chert

limestone, gray to cream, cryptocrystalline, flattened oolitic to fossiliferous, some chalky, mostly dense, smokey gray to white cherts, some some dolomite, gray, microcrystalline, arenaceous, no shows, no fluorescence

as above, slight increase in dolomite

**Rotary TD 5450 ft. @ 1745 hrs 9/23/12
 Pioneer Log TD 5458 ft.
 Complete Logging Operations @ 1215 hrs 9/24/12**

