

OPERATOR

Company: Falcon Exploration Inc.
 Address: 125 N. Market
 Suite 1252
 Wichita, KS 67202
 Contact Geologist: Brian Fisher
 Contact Phone Nbr: 316-262-1378
 Well Name: Jantz #1-30
 Location: Sec. 30 - T28S - R30W
 Pool:
 State: Kansas

API: 15-069-20386-0000
 Field: Wildcat
 Country: USA

Scale 1:240 Imperial

Well Name: Jantz #1-30
 Surface Location: Sec. 30 - T28S - R30W
 Bottom Location:
 API: 15-069-20386-0000
 License Number: 5316
 Spud Date: 8/11/2012
 Region: Gray County
 Drilling Completed: 8/20/2012
 Surface Coordinates: 1040' FSL & 1470' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2823.00ft
 K.B. Elevation: 2836.00ft
 Logged Interval: 3800.00ft
 Total Depth: 5480.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

Time: 00:00
 Time: 06:50
 To: 5480.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 N/S Co-ord: 1040' FSL
 E/W Co-ord: 1470' FWL

Latitude:

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: Sterling Drilling Company
 Rig #: 5
 Rig Type: mud rotary
 Spud Date: 8/11/2012
 TD Date: 8/20/2012
 Rig Release:

Time: 00:00
 Time: 06:50
 Time:

ELEVATIONS

K.B. Elevation: 2836.00ft
 K.B. to Ground: 13.00ft

Ground Elevation: 2823.00ft

NOTES

Due to negative Drill Stem Test results and negative Electrical Log Analysis, it was decided by all parties that the Jantz # 1-30 be plugged and abandoned as a dry hole.

A Tooke Daq gas detector operated by Sterling Drilling company was employed on this well. ROP and gas curves were imported into this log, as well as listed electrical log curves.

The samples were saved and will be available for review at the 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
8/15/2012	3791	Geologist Keith Reavis on location @ 1015 hrs, 3955 ft., drilling ahead Topeka Lecompton, Heebner, Douglas, Lansing
8/16/2012	4728	drilling ahead, Lansing, Stark, Base KC, Trip out PDC and in with Tri-cone @ 4777' drilling ahead, Marmaton
8/17/2012	4978	drilling ahead, Marmaton, Pawnee, Cherokee, Morrow
8/18/2012	5206	show in Morrow warrants test, TOH w/bit in w/tools, conduct DST #1, successful test, TIH w/bit, resume drilling
8/19/2012	5340	drilling ahead, lower Morrow, Chester, St. Gen., St. Louis, show and gas kick in the B porosity warrants test, TOH w/bit and in w/tools, conduct and complete DST #2
8/20/2012	5480	in hole with PDC, rathole to TD of 5480 ft @ 0651 hrs, TOH, conduct and complete open hole logging operations 1645 hrs, geologist off location 1800 hrs

Falcon Exploration, Inc.
 Well Comparison Sheet

DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
Jantz #1-30				C. Jantz #1-19				R. Jantz #1-20			
1040' FSL & 1470' FWL				776' FSL & 1807' FEL				2420' FSL & 1620' FWL			
Sec. 30 T28S R30W				Sec. 19 T28S R30W				Sec. 20 T28S R30W			
2836 KB				2801 KB		Structural Relationship		2788 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Sub-Sea	Sample	Log
Topeka			3808	-972	3778	-977		5	3770	-982	10
Heebner	4145	-1309	4148	-1312	4123	-1322	13	10	4106	-1318	9
Lansing	4252	-1416	4256	-1420	4230	-1429	13	9	4212	-1424	8
Stark	4644	-1808	4643	-1807	4600	-1799	-9	-8	4584	-1796	-12
Marmaton	4775	-1939	4777	-1941	4746	-1945	6	4	4729	-1941	2
Pawnee	4869	-2033	4870	-2034	4842	-2041	8	7	4826	-2038	5
Cherokee	4916	-2080	4914	-2078	4887	-2086	6	8	4874	-2086	6
Morrow	5148	-2312	5147	-2311	5108	-2307	-5	-4	5093	-2305	-7
Miss St. Gen.	5294	-2458	5288	-2452	5234	-2433	-25	-19	5208	-2420	-38
St. Louis B por	5382	-2546	5383	-2547	5328	-2527	-19	-20	5310	-2522	-24
Salem	np				np				5437	-2649	
Warsaw	np				np				5604	-2816	
Osage	np				np				5894	-3106	
Viola	np				np				6186	-3398	
Total Depth	5480	-2644	5480	-2644	5441	-2640	-4	-4	6229	-3441	797

Drill Stem Test #1



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 07:15
 TIME OFF: 16:55

DRILL-STEM TEST TICKET
 FILE: JANTZ1-30SWDST1

Company: FALCON EXPLORATION, INC. Lease & Well No. JANTZ #1-30 (SW)
 Contractor: STERLING DRILLING, COMPANY RIG #5 Charge to: FALCON EXPLORATION, INC.
 Elevation: 2836 KB Formation: MORROW SD. Effective Pay: Ft. Ticket No. T082
 Date: 8-18-12 Sec. 30 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 5142 ft. to 5206 ft. Total Depth 5206 ft.
 Packer Depth 5137 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
 Packer Depth 5142 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

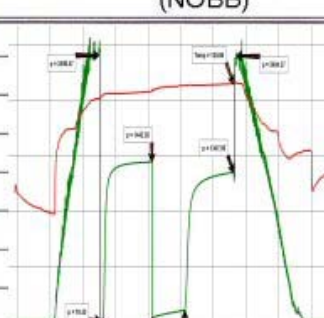
Depth of Selective Zone Set
 Top Recorder Depth (Inside) 5123 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 5203 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
 Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type: CHEMICAL Viscosity 58 Drill Collar Length 332 ft. I.D. 2 1/4 in.
 Weight 9.05 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 2,200 P.P.M. Drill Pipe Length 4777 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 4 Anchor Tool Length 33 ft. Tool Size 3 1/2-FH 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. 32 DP IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING TO 1 1/2 INCHES. (NOBB)
 2nd Open: WEAK SURFACE BLOW, BUILDING TO 3 1/2 INCHES. (NOBB)

Recovered 125 ft. of MUD
 Recovered 60 ft. of WCM, 35% WATER, 65% MUD
 Recovered 185 ft. of TOTAL FLUID
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of CHLORIDES: 19,000 ppm
 Remarks: PH: 7.0
 RW: .27 @ 83 deg.



TOOL SAMPLE: TRACE OIL, 51% WATER, 49% MUD
 Time Set Packer(s) 9:51 AM A.M. Time Started Off Bottom 1:55 PM A.M. Maximum Temperature 121 deg.
 Initial Hydrostatic Pressure (A) 2408 P.S.I.
 Initial Flow Period (B) 5 Minutes 10 P.S.I. to (C) 25 P.S.I.
 Initial Closed In Period (D) 90 Minutes 1443 P.S.I.
 Final Flow Period (E) 60 Minutes 31 P.S.I. to (F) 100 P.S.I.
 Final Closed In Period (G) 90 Minutes 1348 P.S.I.
 Final Hydrostatic Pressure (H) 2404 P.S.I.

Drill Stem Test #2

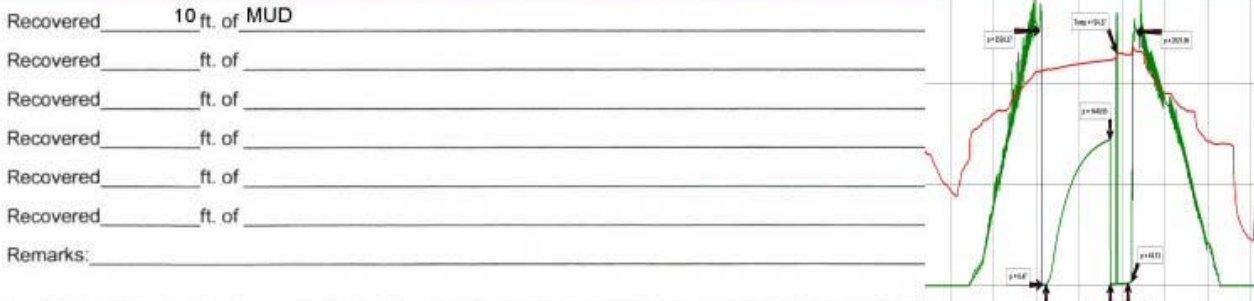


Company **FALCON EXPLORATION, INC.** Lease & Well No. **JANTZ #1-30 (SW)**
 Contractor **STERLING DRILLING, COMPANY RIG #5** Charge to **FALCON EXPLORATION, INC.**
 Elevation **2836 KB** Formation **ST. LOUIS** Effective Pay _____ Ft. Ticket No. **T083**
 Date **8-19-12** Sec. **30** Twp. _____ 28 S Range **30 W** County **GRAY** State **KANSAS**
 Test Approved By **KEITH REAVIS** Diamond Representative **TIMOTHY T. VENTERS**

Formation Test No. **2** Interval Tested from **5349 ft.** to **5420 ft.** Total Depth **5420 ft.**
 Packer Depth **5363 ft.** Size **6 3/4 in.** Packer depth _____ ft. Size **6 3/4 in.**
 Packer Depth **5368 ft.** Size **6 3/4 in.** Packer depth _____ ft. Size **6 3/4 in.**

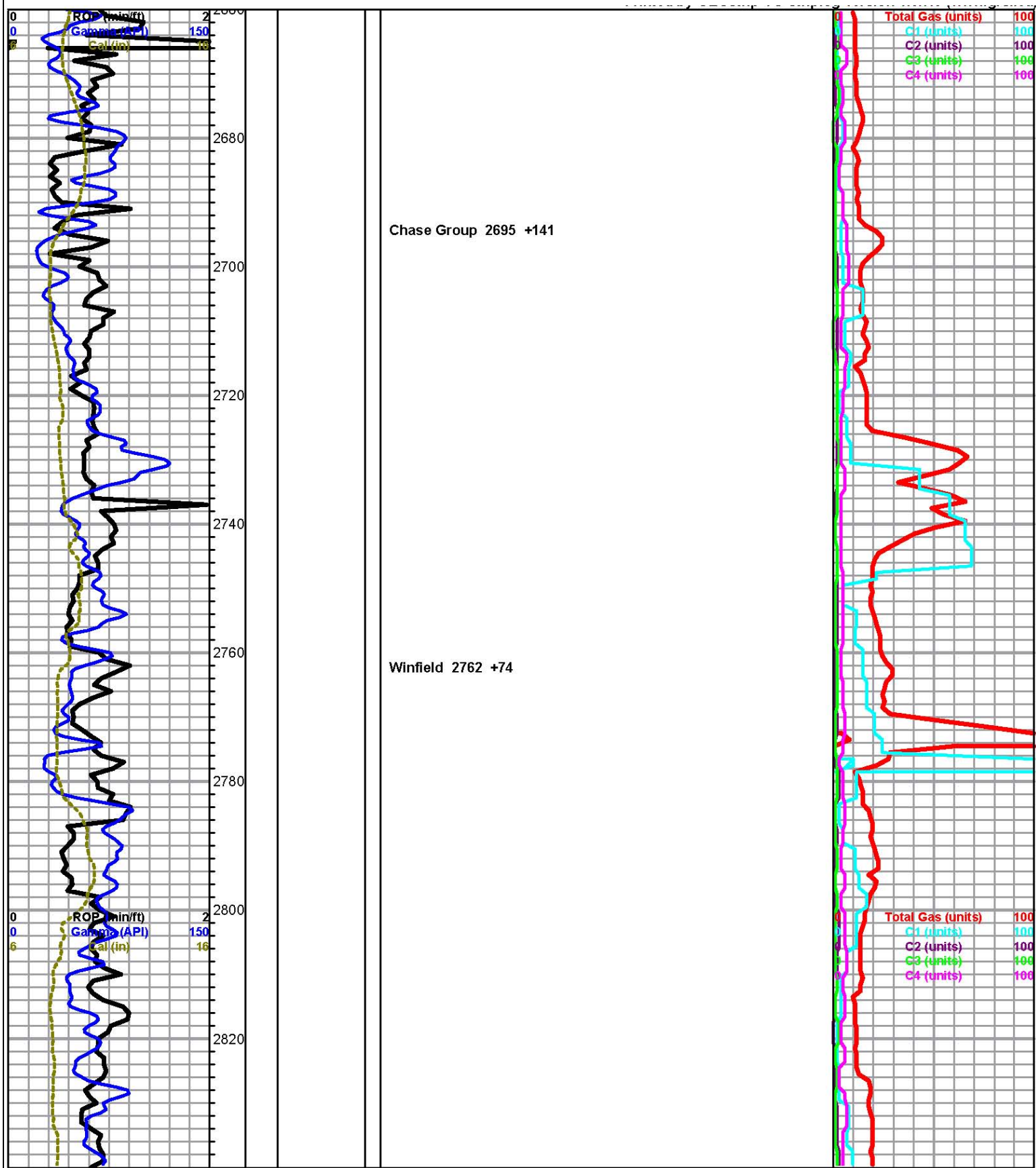
Depth of Selective Zone Set
 Top Recorder Depth (Inside) **5349 ft.** Recorder Number **8457** Cap. **10,000 P.S.I.**
 Bottom Recorder Depth (Outside) **5417 ft.** Recorder Number **11029** Cap. **5,025 P.S.I.**
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type **CHEMICAL** Viscosity **50** Drill Collar Length **332 ft.** I.D. **2 1/4 in.**
 Weight **9.1** Water Loss **8.8 cc.** Weight Pipe Length **0 ft.** I.D. **2 7/8 in.**
 Chlorides **2,800 P.P.M.** Drill Pipe Length **5003 ft.** I.D. **3 1/2 in.**
 Jars: Make **STERLING** Serial Number **4** Test Tool Length **33 ft.** Tool Size **3 1/2-IF in.**
 Did Well Flow? **NO** Reversed Out **NO** Anchor Length **20 ft.** Size **4 1/2-FH in.**
 Main Hole Size **7 7/8** Tool Joint Size **4 1/2 XH in.** 32' DP IN ANCHOR Surface Choke Size **1 in.** Bottom Choke Size **5/8 in.**

Blow: 1st Open: **WEAK SURFACE BLOW THROUGHOUT PERIOD. (NOBB)**
 2nd Open: **NO BLOW AT THE START OF THE PERIOD. WE FLUSHED TOOL @ 9 MIN. & GOT A SURFACE BLOW LASTING 7 MIN. (NOBB)**



TOOL SAMPLE: TRACE OIL, 100% MUD
 Time Set Packer(s) **8:07 AM** A.M. P.M. Time Started Off Bottom **10:12 PM** A.M. P.M. Maximum Temperature **124 deg.**
 Initial Hydrostatic Pressure _____ (A) **2524 P.S.I.**
 Initial Flow Period _____ Minutes **5** (B) **8 P.S.I. to (C) 10 P.S.I.**
 Initial Closed In Period _____ Minutes **90** (D) **1449 P.S.I.**
 Final Flow Period _____ Minutes **25** (E) **15 P.S.I. to (F) 23 P.S.I.**
 Final Closed In Period _____ Minutes **5** (G) **45 P.S.I.**
 Final Hydrostatic Pressure _____ (H) **2521 P.S.I.**

Shallow Gas Log



ROCK TYPES

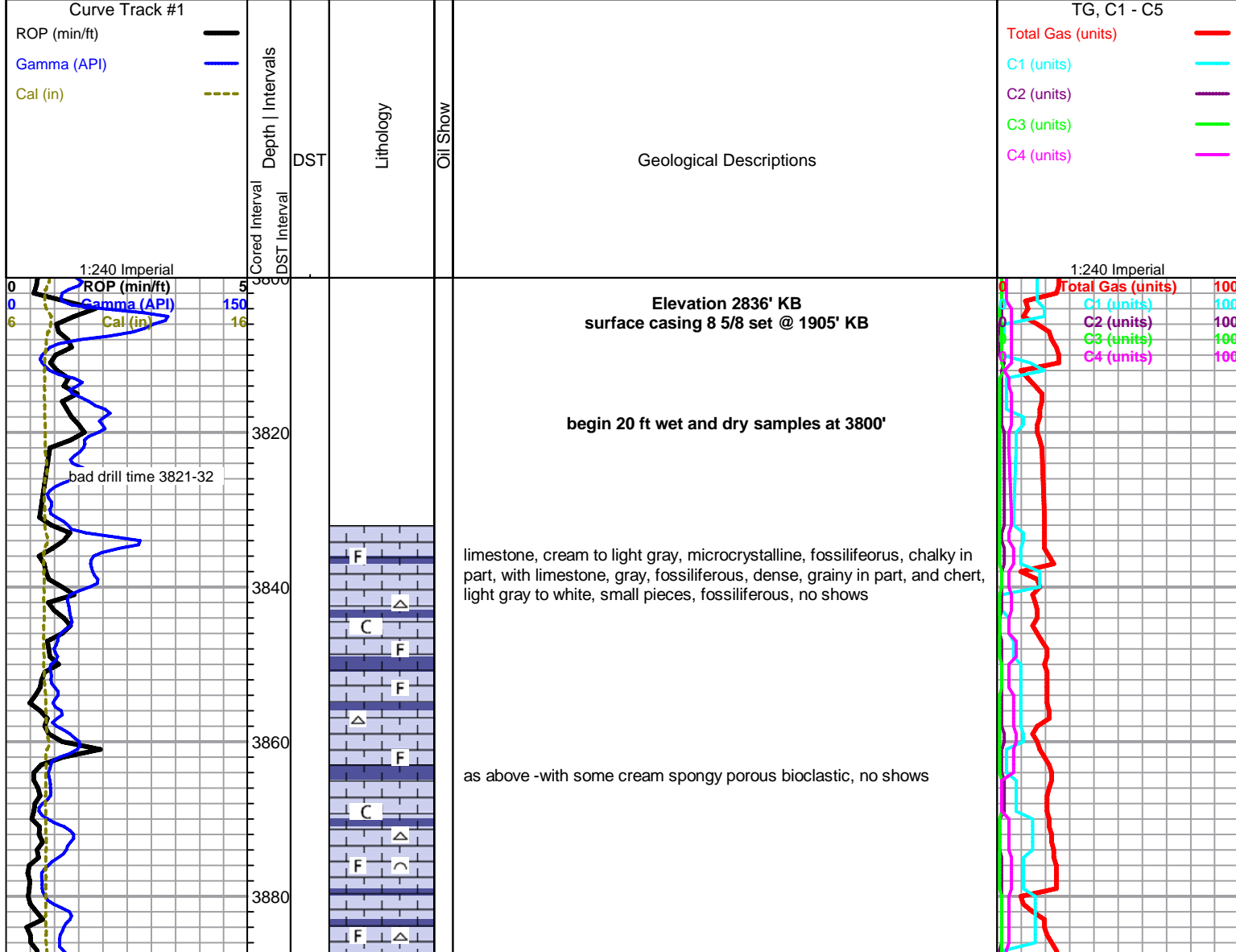
- Clystgy
- sdylmst
- Lmst fw<7
- Lmst fw7>
- shale, grn
- shale, gry
- Carbon Sh
- shale, red
- Ss

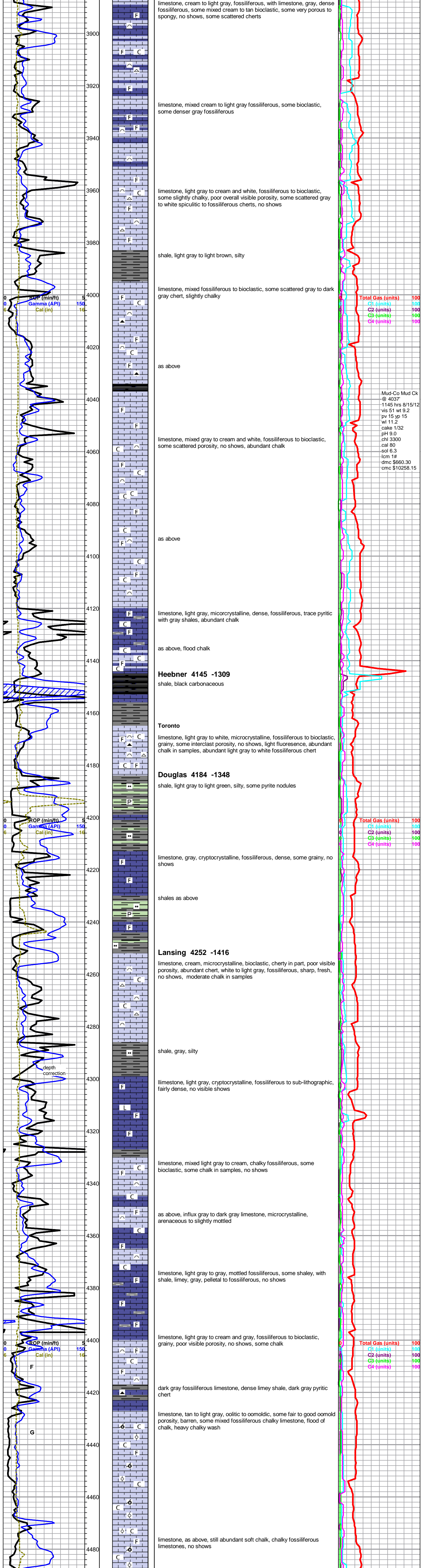
ACCESSORIES

- MINERAL**
 - ▲ Chert, dark
 - ∩ Glauconite
 - P Pyrite
 - Silty
 - △ Chert White
- FOSSIL**
 - ∩ Bioclastic or Fragmental
 - F Fossils < 20%
 - ∩ Oolite
 - ∩ Pellets
 - ∩ Oomoldic
- STRINGER**
 - ∩ Conglomerate
 - ∩ Dolomite
 - ∩ Limestone
 - ∩ Sandstone
 - ∩ Siltstone
 - ∩ Shale
 - ∩ green shale
 - ∩ red shale
 - ∩ carb shale
- TEXTURE**
 - C Chalky
 - CX Cryptocrystalline
 - L Lithogr

OTHER SYMBOLS

- MISC**
 - DR Daily Report
 - Digital Photo
 - Document
 - Folder
 - Link
 - Vertical Log File
 - Horizontal Log File
 - Core Log File
 - Drill Cuttings Rpt
- DST**
 - DST Int
 - DST alt
 - Core
 - tail pipe





limestone, cream to light gray, fossiliferous, with limestone, gray, dense fossiliferous, some mixed cream to tan bioclastic, some very porous to spongy, no shows, some scattered cherts

limestone, mixed cream to light gray fossiliferous, some bioclastic, some denser gray fossiliferous

limestone, light gray to cream and white, fossiliferous to bioclastic, some slightly chalky, poor overall visible porosity, some scattered gray to white spiculitic to fossiliferous cherts, no shows

shale, light gray to light brown, silty

limestone, mixed fossiliferous to bioclastic, some scattered gray to dark gray chert, slightly chalky

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

as above

Mud-Co Mud Ck
 @ 4037
 1145 hrs 8/15/12
 vis S1 wt 9.2
 pv 15 yp 15
 wl 11.2
 cake 1/32
 pH 9.0
 chl 3300
 cal 80
 sol 6.3
 lcm 1#
 dmc \$660.30
 cmc \$10258.15

limestone, mixed gray to cream and white, fossiliferous to bioclastic, some scattered porosity, no shows, abundant chalk

as above

limestone, light gray, microcrystalline, dense, fossiliferous, trace pyritic with gray shales, abundant chalk

as above, flood chalk

Heebner 4145 -1309
 shale, black carbonaceous

Toronto

limestone, light gray to white, microcrystalline, fossiliferous to bioclastic, grainy, some interclast porosity, no shows, light fluorescence, abundant chalk in samples, abundant light gray to white fossiliferous chert

Douglas 4184 -1348
 shale, light gray to light green, silty, some pyrite nodules

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

limestone, gray, cryptocrystalline, fossiliferous, dense, some grainy, no shows

shales as above

Lansing 4252 -1416

limestone, cream, microcrystalline, bioclastic, cherty in part, poor visible porosity, abundant chert, white to light gray, fossiliferous, sharp, fresh, no shows, moderate chalk in samples

shale, gray, silty

limestone, light gray, cryptocrystalline, fossiliferous to sub-lithographic, fairly dense, no visible shows

limestone, mixed light gray to cream, chalky fossiliferous, some bioclastic, some chalk in samples, no shows

as above, influx gray to dark gray limestone, microcrystalline, arenaceous to slightly mottled

limestone, light gray to gray, mottled fossiliferous, some shaley, with shale, limey, gray, pelletal to fossiliferous, no shows

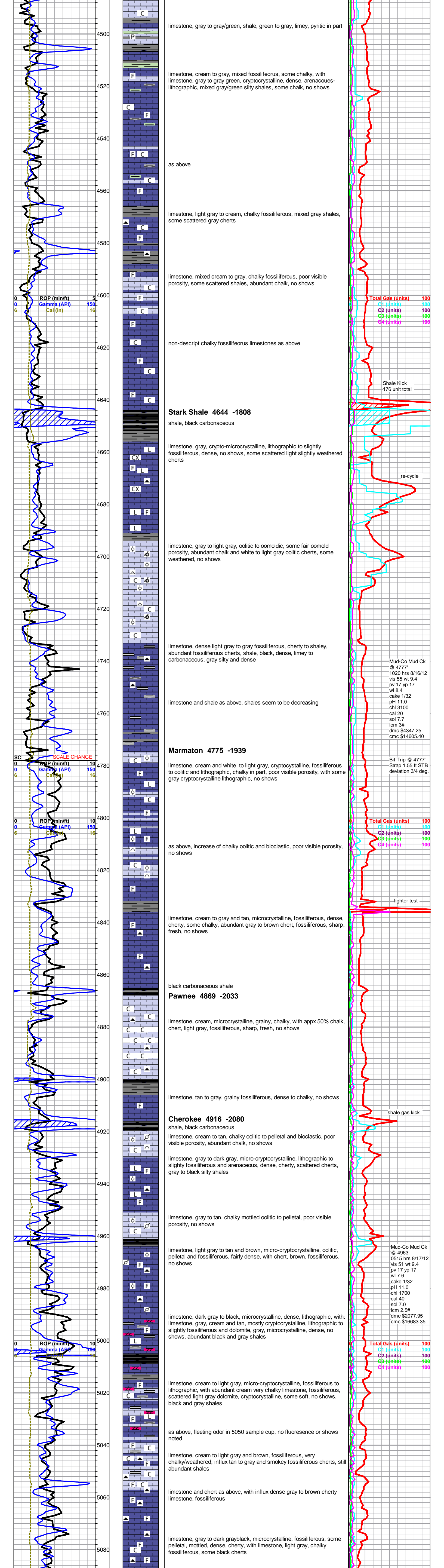
Total Gas (units) 100
 C1 (units) 100
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100

limestone, light gray to cream and gray, fossiliferous to bioclastic, grainy, poor visible porosity, no shows, some chalk

dark gray fossiliferous limestone, dense limey shale, dark gray pyritic chert

limestone, tan to light gray, oolitic to oomoldic, some fair to good oomold porosity, barren, some mixed fossiliferous chalky limestone, flood of chalk, heavy chalky wash

limestone, as above, still abundant soft chalk, chalky fossiliferous limestones, no shows



limestone, gray to gray/green, shale, green to gray, limey, pyritic in part

limestone, cream to gray, mixed fossiliferous, some chalky, with limestone, gray to gray green, cryptocrystalline, dense, arenaceous-lithographic, mixed gray/green silty shales, some chalk, no shows

as above

limestone, light gray to cream, chalky fossiliferous, mixed gray shales, some scattered gray cherts

limestone, mixed cream to gray, chalky fossiliferous, poor visible porosity, some scattered shales, abundant chalk, no shows

non-descript chalky fossiliferous limestones as above

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

Shale Kick
 176 unit total

Stark Shale 4644 -1808
 shale, black carbonaceous

limestone, gray, crypto-microcrystalline, lithographic to slightly fossiliferous, dense, no shows, some scattered light slightly weathered cherts

re-cycle

limestone, gray to light gray, oolitic to oomoldic, some fair oomold porosity, abundant chalk and white to light gray oolitic cherts, some weathered, no shows

limestone, dense light gray to gray fossiliferous, cherty to shaley, abundant fossiliferous cherts, shale, black, dense, limey to carbonaceous, gray silty and dense

Mud-Co Mud Ck
 @ 4777
 1020 hrs 8/16/12
 vis 55 wt 9.4
 pv 17 yp 17
 wl 8.4
 cake 1/32
 pH 11.0
 chl 3100
 cal 20
 sol 7.7
 lcn 3#
 dmc \$4347.25
 cmc \$14605.40

limestone and shale as above, shales seem to be decreasing

Marmaton 4775 -1939

limestone, cream and white to light gray, cryptocrystalline, fossiliferous to oolitic and lithographic, chalky in part, poor visible porosity, with some gray cryptocrystalline lithographic, no shows

Bit Trip @ 4777
 Strap 1.55 ft STB
 deviation 3/4 deg.

as above, increase of chalky oolitic and bioclastic, poor visible porosity, no shows

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

lighter test

limestone, cream to gray and tan, microcrystalline, fossiliferous, dense, cherty, some chalky, abundant gray to brown chert, fossiliferous, sharp, fresh, no shows

Pawnee 4869 -2033

black carbonaceous shale

limestone, cream, microcrystalline, grainy, chalky, with appx 50% chalk, chert, light gray, fossiliferous, sharp, fresh, no shows

limestone, tan to gray, grainy fossiliferous, dense to chalky, no shows

shale gas kick

Cherokee 4916 -2080

shale, black carbonaceous

limestone, cream to tan, chalky oolitic to pelletal and bioclastic, poor visible porosity, abundant chalk, no shows

limestone, gray to dark gray, micro-cryptocrystalline, lithographic to slightly fossiliferous and arenaceous, dense, cherty, scattered cherts, gray to black silty shales

limestone, gray to tan, chalky mottled oolitic to pelletal, poor visible porosity, no shows

Mud-Co Mud Ck
 @ 4963
 0515 hrs 8/17/12
 vis 51 wt 9.4
 pv 17 yp 17
 wl 7.6
 cake 1/32
 pH 11.0
 chl 1700
 cal 40
 sol 7.0
 lcn 2.5#
 dmc \$2077.95
 cmc \$16683.35

limestone, light gray to tan and brown, micro-cryptocrystalline, oolitic, pelletal and fossiliferous, fairly dense, with chert, brown, fossiliferous, no shows

limestone, dark gray to black, microcrystalline, dense, lithographic, with: pelletal and fossiliferous and dolomite, gray, microcrystalline, dense, no shows, abundant black and gray shales

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

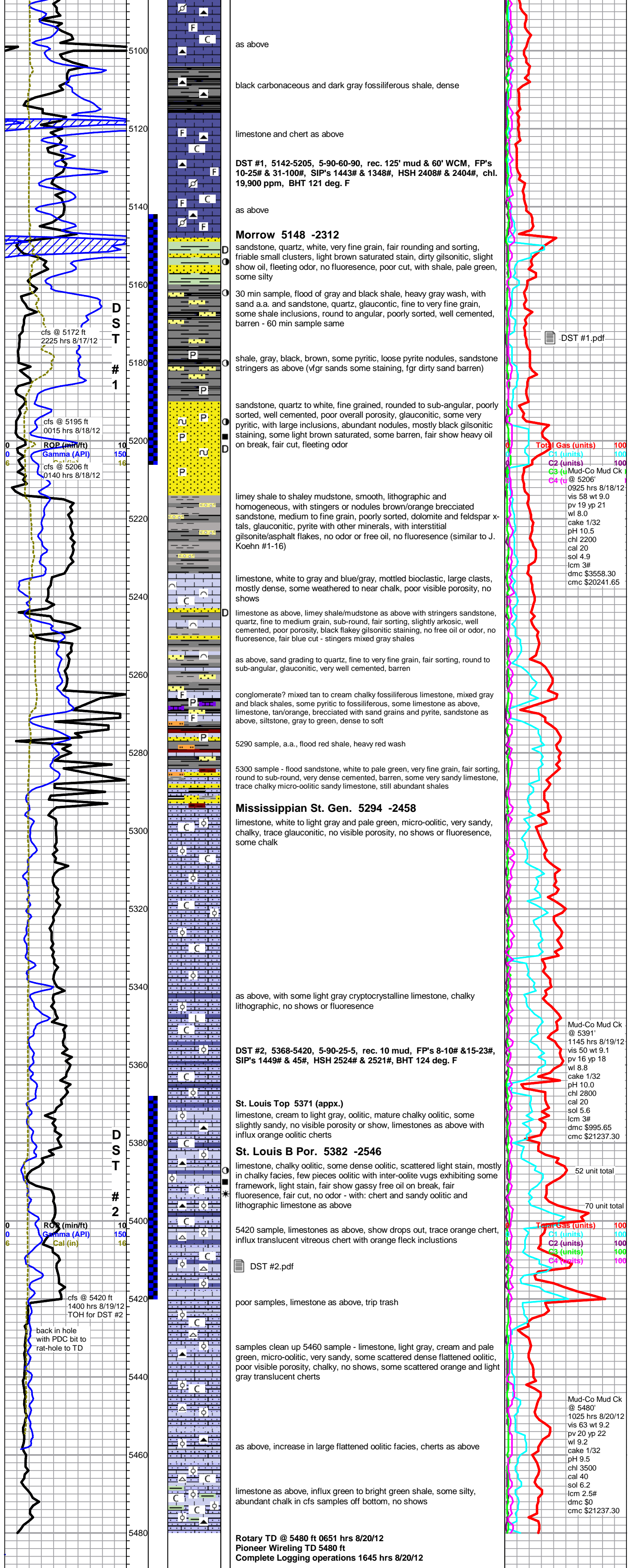
limestone, cream to light gray, micro-cryptocrystalline, fossiliferous to lithographic, with abundant very chalky limestone, fossiliferous, scattered light gray dolomite, cryptocrystalline, some soft, no shows, black and gray shales

as above, fleeting odor in 5050 sample cup, no fluorescence or shows noted

limestone, cream to light gray and brown, fossiliferous, very chalky/weathered, influx tan to gray and smokey fossiliferous cherts, still abundant shales

limestone and chert as above, with influx dense gray to brown cherty limestone, fossiliferous

limestone, grey to black, microcrystalline, fossiliferous, some pelletal, mottled, dense, cherty, with limestone, light gray, chalky fossiliferous, some black cherts



as above

black carbonaceous and dark gray fossiliferous shale, dense

limestone and chert as above

DST #1, 5142-5205, 5-90-60-90, rec. 125' mud & 60' WCM, FP's 10-25# & 31-100#, SIP's 1443# & 1348#, HSH 2408# & 2404#, chl. 19,900 ppm, BHT 121 deg. F

as above

Morrow 5148 -2312

sandstone, quartz, white, very fine grain, fair rounding and sorting, friable small clusters, light brown saturated stain, dirty gilsonitic, slight show oil, fleeting odor, no fluorescence, poor cut, with shale, pale green, some silty

30 min sample, flood of gray and black shale, heavy gray wash, with sand a.a. and sandstone, quartz, glauconitic, fine to very fine grain, some shale inclusions, round to angular, poorly sorted, well cemented, barren - 60 min sample same

shale, gray, black, brown, some pyritic, loose pyrite nodules, sandstone stringers as above (vgr sands some staining, fgr dirty sand barren)

sandstone, quartz to white, fine grained, rounded to sub-angular, poorly sorted, well cemented, poor overall porosity, glauconitic, some very pyritic, with large inclusions, abundant nodules, mostly black gilsonitic staining, some light brown saturated, some barren, fair show heavy oil on break, fair cut, fleeting odor

limey shale to shaley mudstone, smooth, lithographic and homogeneous, with stingers or nodules brown/orange brecciated sandstone, medium to fine grain, poorly sorted, dolomite and feldspar x-tals, glauconitic, pyrite with other minerals, with interstitial gilsonite/asphalt flakes, no odor or free oil, no fluorescence (similar to J. Koehn #1-16)

limestone, white to gray and blue/gray, mottled bioclastic, large clasts, mostly dense, some weathered to near chalk, poor visible porosity, no shows

limestone as above, limey shale/mudstone as above with stringers sandstone, quartz, fine to medium grain, sub-round, fair sorting, slightly arkosic, well cemented, poor porosity, black flakey gilsonitic staining, no free oil or odor, no fluorescence, fair blue cut - stingers mixed gray shales

as above, sand grading to quartz, fine to very fine grain, fair sorting, round to sub-angular, glauconitic, very well cemented, barren

conglomerate? mixed tan to cream chalky fossiliferous limestone, mixed gray and black shales, some pyritic to fossiliferous, some limestone as above, limestone, tan/orange, brecciated with sand grains and pyrite, sandstone as above, siltstone, gray to green, dense to soft

5290 sample, a.a., flood red shale, heavy red wash

5300 sample - flood sandstone, white to pale green, very fine grain, fair sorting, round to sub-round, very dense cemented, barren, some very sandy limestone, trace chalky micro-oolitic sandy limestone, still abundant shales

Mississippian St. Gen. 5294 -2458

limestone, white to light gray and pale green, micro-oolitic, very sandy, chalky, trace glauconitic, no visible porosity, no shows or fluorescence, some chalk

as above, with some light gray cryptocrystalline limestone, chalky lithographic, no shows or fluorescence

DST #2, 5368-5420, 5-90-25-5, rec. 10 mud, FP's 8-10# & 15-23#, SIP's 1449# & 45#, HSH 2524# & 2521#, BHT 124 deg. F

St. Louis Top 5371 (appx.)

limestone, cream to light gray, oolitic, mature chalky oolitic, some slightly sandy, no visible porosity or show, limestones as above with influx orange oolitic cherts

St. Louis B Por. 5382 -2546

limestone, chalky oolitic, some dense oolitic, scattered light stain, mostly in chalky facies, few pieces oolitic with inter-oolite vugs exhibiting some framework, light stain, fair show gassy free oil on break, fair fluorescence, fair cut, no odor - with: chert and sandy oolitic and lithographic limestone as above

5420 sample, limestones as above, show drops out, trace orange chert, influx translucent vitreous chert with orange fleck inclusions

DST #2.pdf

poor samples, limestone as above, trip trash

samples clean up 5460 sample - limestone, light gray, cream and pale green, micro-oolitic, very sandy, some scattered dense flattened oolitic, poor visible porosity, chalky, no shows, some scattered orange and light gray translucent cherts

as above, increase in large flattened oolitic facies, cherts as above

limestone as above, influx green to bright green shale, some silty, abundant chalk in cfs samples off bottom, no shows

**Rotary TD @ 5480 ft 0651 hrs 8/20/12
Pioneer Wireline TD 5480 ft
Complete Logging operations 1645 hrs 8/20/12**

DST #1.pdf

Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100
Mud-Co Mud Ck @ 5206'
0925 hrs 8/18/12
vis 58 wt 9.0
pv 19 yp 21
wl 8.0
cake 1/32
pH 10.5
chl 2200
cal 20
sol 4.9
lcm 3#
dmc \$3558.30
cmc \$20241.65

Mud-Co Mud Ck @ 5391'
1145 hrs 8/19/12
vis 50 wt 9.1
pv 16 yp 18
wl 8.8
cake 1/32
pH 10.0
chl 2800
cal 20
sol 5.6
lcm 3#
dmc \$995.65
cmc \$21237.30

52 unit total
70 unit total
Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100

Mud-Co Mud Ck @ 5480'
1025 hrs 8/20/12
vis 63 wt 9.2
pv 20 yp 22
wl 9.2
cake 1/32
pH 9.5
chl 3500
cal 40
sol 6.2
lcm 2.5#
dmc \$0
cmc \$21237.30