

OPERATOR

Company: Falcon Exploration, Inc.
 Address: 125 N. Market
 Suite 1252
 Wichita, KS 67202
 Contact Geologist: Dan Fredlund
 Contact Phone Nbr: 316-262-1378
 Well Name: Kenneth Dirks #3-8
 Location: Sec. 8 - T28S - R30W
 Pool:
 State: Kansas
 API: 15-069-20457-0000
 Field: N/A
 Country: USA

Scale 1:240 Imperial

Well Name: Kenneth Dirks #3-8
 Surface Location: Sec. 8 - T28S - R30W
 Bottom Location:
 API: 15-069-20457-0000
 License Number: 5316
 Spud Date: 2/27/2014 Time: 00:00
 Region: Gray County
 Drilling Completed: 3/11/2014 Time: 00:40
 Surface Coordinates: 2020' FSL & 1620' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2808.00ft
 K.B. Elevation: 2818.00ft To: 5550.00ft
 Logged Interval: 4000.00ft
 Total Depth: 5550.00ft
 Formation:
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 2020' FSL
 E/W Co-ord: 1620' FEL

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: Val Energy, Inc.
 Rig #: 2
 Rig Type: mud rotary Time: 00:00
 Spud Date: 2/27/2014 Time: 00:40
 TD Date: 3/11/2014
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2818.00ft Ground Elevation: 2808.00ft
 K.B. to Ground: 10.00ft

NOTES

Due to results of drill stem test #1 in the Morrow Sand, the operator elected to set 5 1/2" production casing and further test through perforations and stimulation.

A Bloodhound gas detection system operated by Bluestem Environmental was employed during the drilling of this well. ROP and gas data were imported into this mudlog. The gas detector was operational by 2350 ft. A slight gas kick occurred through the Chase group of minor significance, otherwise, no gas kicks were recorded prior to point (4000 ft) where sample examination began on this mudlog. Gamma ray and caliper curves were also imported from the electrical log suite. All log tops were consistently 4-5 ft high to the drill time recorded from rig measurements. These curves were not shifted to provide and exact match, but left as recorded in the field.

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
03/06/2014	4357	Geologist Keith Reavis on location @ 0330 hrs, 4141 ft, drilling ahead Heebner, Toronto, Douglas, Lansing, Marmaton, Cherokee, @ 5060 ft. pull PDC bit
03/07/2014	5060	finish pulling PDC, tight hole, back in with button bit, ctch, resume drilling, base Cherokee, Morrow, show in Morrow sand warrants DST, TOH w/bit and in with tools, conducting DST #1
03/08/2014	5133	Let tools hang overnight (oil loaded) complete DST #1, successful test, reverse out load, TIH w/bit, CTCH, resume drilling, Chester
03/09/2014	5305	drilling, St. Gen, St. Louis, show in A zone warrants test, TOH w/bit, conduct and complete DST #1, successful test, round trip tools and bit
03/10/2014	5346	resume drilling 0100 hrs, St. Louis B, show warrants DST, TOH w/bit, conducting DST #3, complete DST, successful test, TIH w/bit, resume drilling, rathole ahead, Mississippian
03/11/2014	5550	TD @0040 hrs, TOH for logs, conduct and complete logging operations, geologist off location @ 1000 hrs

Falcon Exploration, Inc.
well comparison sheet

Formation	DRILLING WELL Falcon - K. Dirks #3-8 2020' FSL & 1620' FEL Sec. 8 T28S R30W				COMPARISON WELL Falcon - K. Dirks #2-8 2090' FSL & 440' FEL Sec. 8 T28S R30W				COMPARISON WELL Falcon - Lanterman #1-8 2030' FNL & 370' FEL Sec. 8 T28S R30W					
	2818 KB	Sample	Sub-Sea	Log	Sub-Sea	Log	Relationship	Log	Sub-Sea	Log	Relationship	Log	Sub-Sea	Log
Heebner	4150	-1332	4145	-1327	4149	-1330	-2	3	4146	-1325	-7	-2		
Lansing	4248	-1430	4242	-1424	4246	-1427	-3	3	4249	-1428	-2	4		
Stark	4606	-1788	4602	-1784	4612	-1793	5	9	4606	-1785	-3	1		
Marmaton	4753	-1935	4749	-1931	4752	-1933	-2	2	4743	-1922	-13	-9		
Fawnee	4835	-2017	4835	-2017	4838	-2019	2	2	4837	-2016	-1	-1		
Cherokee	4885	-2067	4881	-2063	4886	-2067	0	4	4881	-2060	-7	-3		
Morrow Sand	5109	-2291	5105	-2287	5117	-2298	7	11	5118	-2297	6	10		
Miss St. Gen.	5193	-2375	5208	-2390	5217	-2398	23	8	5244	-2423	48	33		
St. Lo B Por.	5332	-2514	5329	-2511	5341	-2522	8	11	5345	-2524	10	13		
Salem	5503	-2685	5500	-2682	5498	-2679	-6	-3	np					
Total Depth	5550	-2732	5548	-2730	5550	-2731	-1	1	5406	-2585	-147	-145		

DST #1



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
 TIME ON: 15:46 3-7-14
 TIME OFF: 11:22 3-8-14

DRILL-STEM TEST TICKET
 FILE: KENNETHDIRKS3-8(SE)DST1

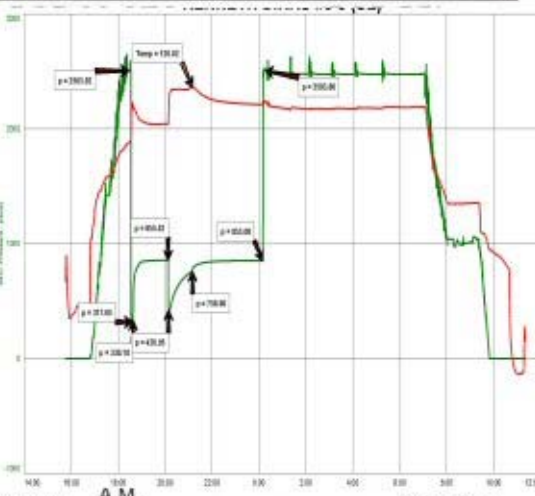
Company **FALCON EXPLORATION, INC.** Lease & Well No. **KENNETH DIRKS 3-8 (SE)**
 Contractor **VAL ENERGY, INC. RIG #2** Charge to **FALCON EXPLORATION, INC.**
 Elevation **2818 KB** Formation **MORROW SD.** Effective Pay _____ Ft. Ticket No. **T318**
 Date **3-7-14** Sec. **8** Twp. **28 S** Range **30 W** County **GRAY** State **KANSAS**
 Test Approved By **KEITH REAVIS** Diamond Representative **TIMOTHY T. VENTERS**

Formation Test No. **1** Interval Tested from **5084 ft.** to **5133 ft.** Total Depth **5133 ft.**
 Packer Depth **5079 ft.** Size **6 3/4 in.** Packer depth _____ ft. Size **6 3/4 in.**
 Packer Depth **5084 ft.** Size **6 3/4 in.** Packer depth _____ ft. Size **6 3/4 in.**

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) **5065 ft.** Recorder Number **8457** Cap. **10,000 P.S.I.**
 Bottom Recorder Depth (Outside) **5130 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 **54** Drill Collar Length **0 ft.** I.D. **2 1/4 in.**
 Weight **9.5** Water Loss **6.4 cc.** Weight Pipe Length **0 ft.** I.D. **2 7/8 in.**
 Chlorides **3,000 P.P.M.** Drill Pipe Length **5051 ft.** I.D. **3 1/2 in.**
 Jars: Make **STERLING** Serial Number **2** Test Tool Length **33 ft.** Tool Size **3 1/2-IF in.**
 Did Well Flow? **NO** Reversed Out **YES** Anchor Length **17 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: **GOOD 2 INCH BLOW, BUILDING, REACHING**
 2nd Open: **VERY STRONG BLOW, HITTING BOB INSTANT.**
 Recovered **2990 ft.** of **GAS IN PIPE**
 Recovered **20 ft.** of **GO, 6% GAS, 94% OIL, GRAVITY: 20**
 Recovered **480 ft.** of **T,SWCO, 4% GAS, 82% OIL, 14% WATER**
 Recovered **1440 ft.** of **G,SMCO, 3% GAS, 87% OIL, 10% MUD**
 Recovered **125 ft.** of **G,OCM, 6% GAS, 21% OIL, 73% MUD**
 Recovered **2065 ft.** of **TOTAL FLUID** CHLORIDES: **93.0**
 Remarks: _____ PH: **6.0**
 RW: **.10 @ 64 deg.**



TOOL SAMPLE: **97% OIL, 3% MUD**
 Time Set Packer(s) **6:32 PM** A.M. Time Started Off Bottom **12:07 AM** P.M. Maximum Temperature **126 deg.**
 Initial Hydrostatic Pressure _____ (A) **2504 P.S.I.**
 Initial Flow Period _____ Minutes **5** (B) **318 P.S.I.** to (C) **330 P.S.I.**
 Initial Closed In Period _____ Minutes **90** (D) **856 P.S.I.**
 Final Flow Period _____ Minutes **60** (E) **421 P.S.I.** to (F) **759 P.S.I.**
 Final Closed In Period _____ Minutes **180** (G) **853 P.S.I.**
 Final Hydrostatic Pressure _____ (H) **2504 P.S.I.**

DST #2



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: KENNETHDIRKS3-8(SE)DST2

TIME ON: 13:33
 TIME OFF: 22:47

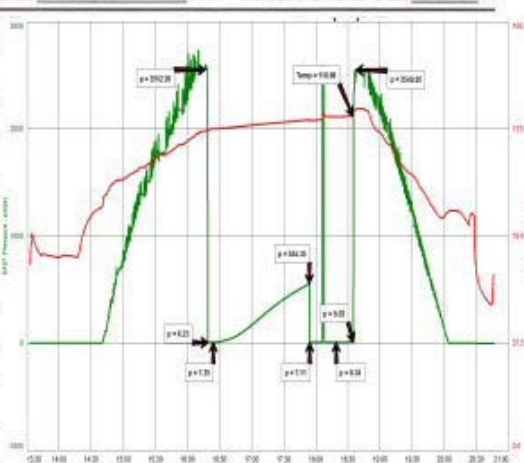
Company FALCON EXPLORATION, INC. Lease & Well No. KENNETH DIRKS 3-8 (SE)
 Contractor VAL ENERGY, INC. RIG #2 Charge to FALCON EXPLORATION, INC.
 Elevation 2818 KB Formation ST. LOUS Effective Pay _____ Ft. Ticket No. T319
 Date 3-9-14 Sec. 8 Twp. 28 S Range 30 W County GRAY State KANSAS
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 5293 ft. to 5331 ft. Total Depth 5331 ft.
 Packer Depth 5288 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 5293 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set
 Top Recorder Depth (Inside) 5274 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 5328 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 45 Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 2,500 P.P.M. Drill Pipe Length 5260 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 38 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 THROUGHOUT PERIC
 2nd Open: NO BLOW THROUGHOUT PERIOD.

Recovered 5 ft. of M W/SP. O, SPOTTY OIL, 100% MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: _____



TOOL SAMPLE: SPOTTY OIL OIL, 100% MUD

Time Set Packer(s) 4:18 PM A.M. P.M. Time Started Off Bottom 6:33 PM A.M. P.M. Maximum Temperature 117 deg.
 Initial Hydrostatic Pressure _____ (A) 2552 P.S.I.
 Initial Flow Period _____ Minutes 5 (B) 6 P.S.I. to (C) 7 P.S.I.
 Initial Closed In Period _____ Minutes 90 (D) 554 P.S.I.
 Final Flow Period _____ Minutes 25 (E) 7 P.S.I. to (F) 8 P.S.I.
 Final Closed In Period _____ Minutes 15 (G) 9 P.S.I.
 Final Hydrostatic Pressure _____ (H) 2550 P.S.I.

DST #3



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: KENNETHDIRKS3-8(SE)DST3

TIME ON: 05:33
 TIME OFF: 16:57

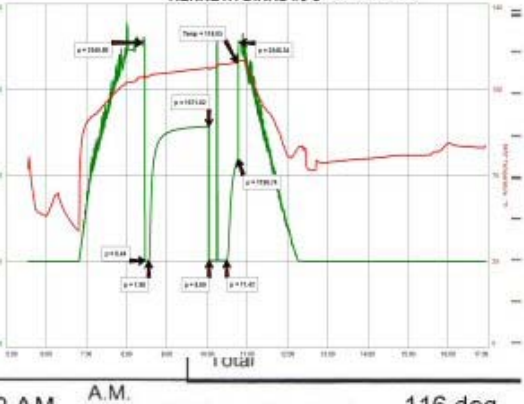
Company FALCON EXPLORATION, INC. Lease & Well No. KENNETH DIRKS 3-8 (SE)
 Contractor VAL ENERGY, INC. RIG #2 Charge to FALCON EXPLORATION, INC.
 Elevation 2818 KB Formation ST. LOUS "B" Effective Pay _____ Ft. Ticket No. T320
 Date 3-10-14 Sec. 8 Twp. 28 S Range 30 W County GRAY State KANSAS
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 5328 ft. to 5346 ft. Total Depth 5346 ft.
 Packer Depth 5323 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 5328 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set
 Top Recorder Depth (Inside) 5309 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 5343 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 52 Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 9.2 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3,000 P.P.M. Drill Pipe Length 5295 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 18 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 THROUGHOUT PERIOD. (NO BB)
 2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered 5 ft. of MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: JASON TOOK OVER DURING THE INITIAL SHUT-IN.



TOOL SAMPLE: SPOTTY OIL, 100% MUD

Time Set Packer(s) 8:27 AM A.M. P.M. Time Started Off Bottom 10:42 AM A.M. P.M. Maximum Temperature 116 deg.
 Initial Hydrostatic Pressure _____ (A) 2550 P.S.I.
 Initial Flow Period _____ Minutes 5 (B) 6 P.S.I. to (C) 8 P.S.I.
 Initial Closed In Period _____ Minutes 90 (D) 1572 P.S.I.
 Final Flow Period _____ Minutes 25 (E) 9 P.S.I. to (F) 11 P.S.I.
 Final Closed In Period _____ Minutes 15 (G) 1191 P.S.I.
 Final Hydrostatic Pressure _____ (H) 2548 P.S.I.

ROCK TYPES

- | | | | |
|-----------|------------|------------|--------|
| Clystgy | Lmst fw7> | Carbon Sh | Ss |
| sdy lmst | shale, grn | shale, red | Siltst |
| Lmst fw<7 | shale, gry | Shcol | |

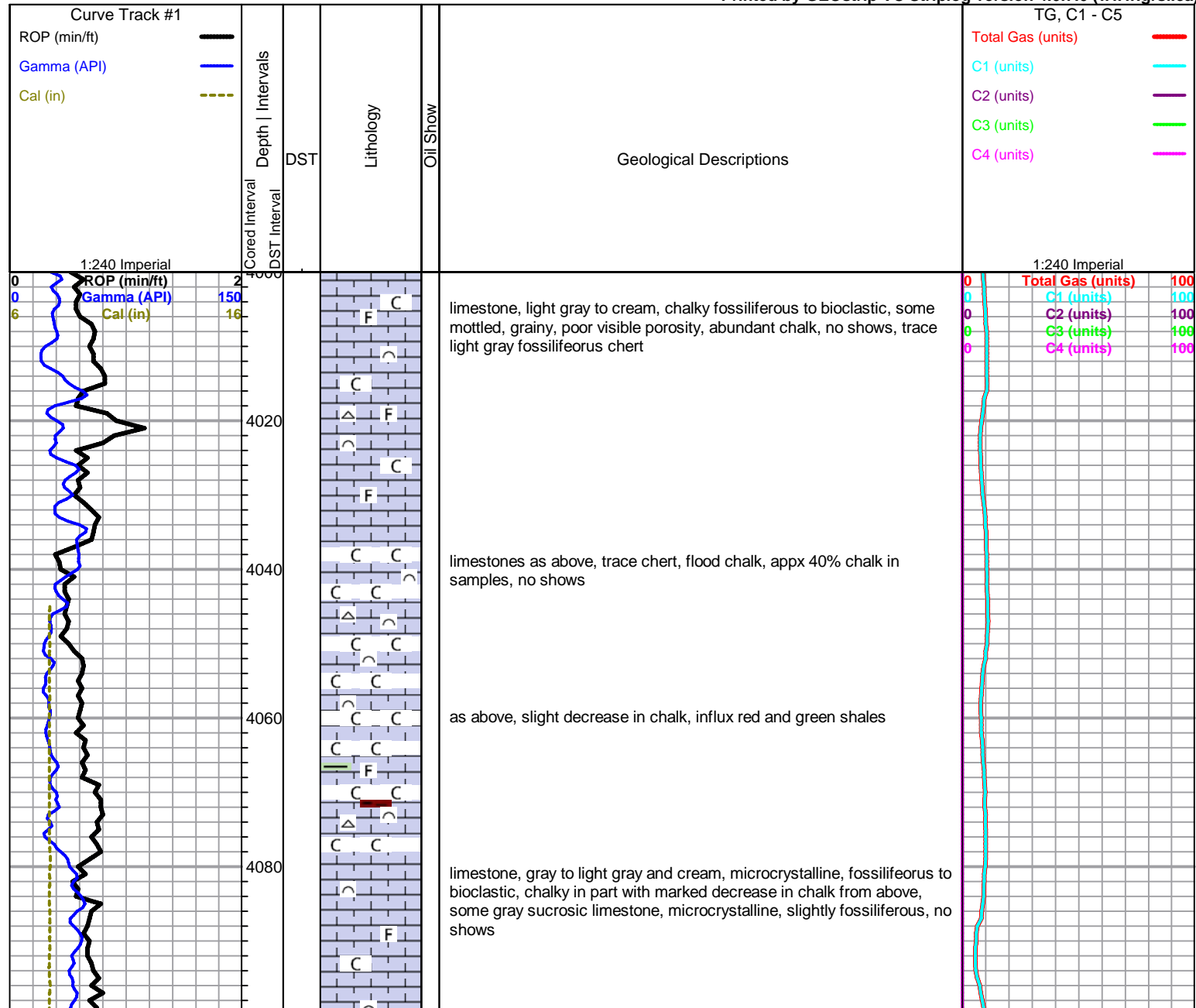
ACCESSORIES

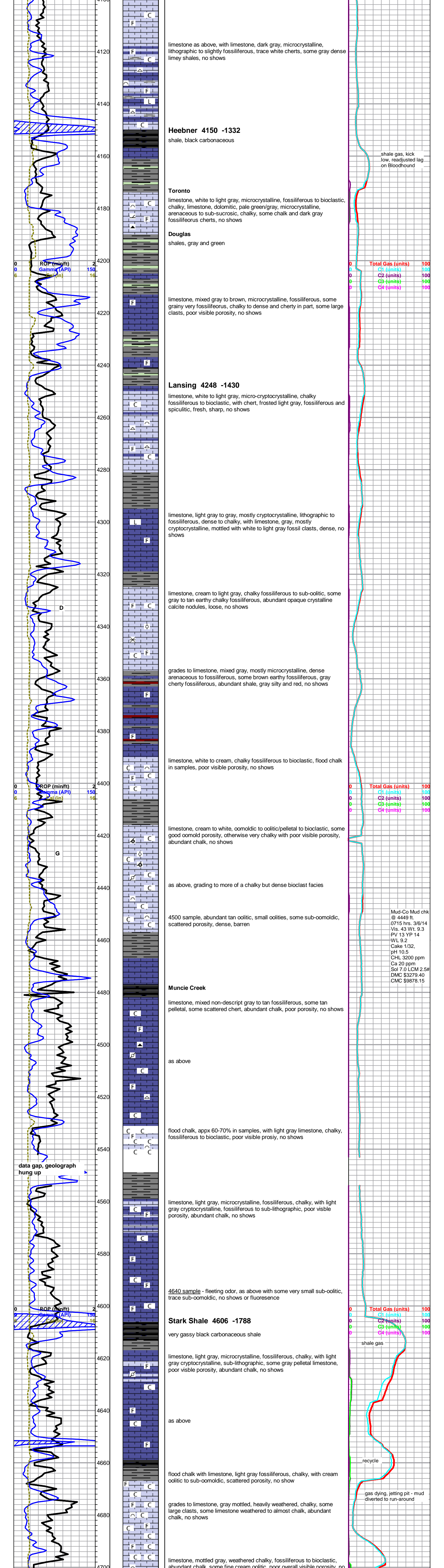
- | | | | |
|--------------------|----------------------------|-----------------|----------------|
| MINERAL | FOSSIL | STRINGER | TEXTURE |
| ▲ Chert, dark | ∧ Bioclastic or Fragmental | ▨ Dolomite | C Chalky |
| ∟ Dolomitic | F Fossils < 20% | ▨ Limestone | L Lithogr |
| ∩ Glauconite | ∅ Oolite | ▨ Sandstone | |
| ✕ Mineral Crystals | ∩ Pellets | ▨ Siltstone | |
| P Pyrite | ⊕ Oomoldic | ▨ Shale | |
| △ Chert White | | ▨ green shale | |
| | | ▨ red shale | |
| | | ▨ carb shale | |

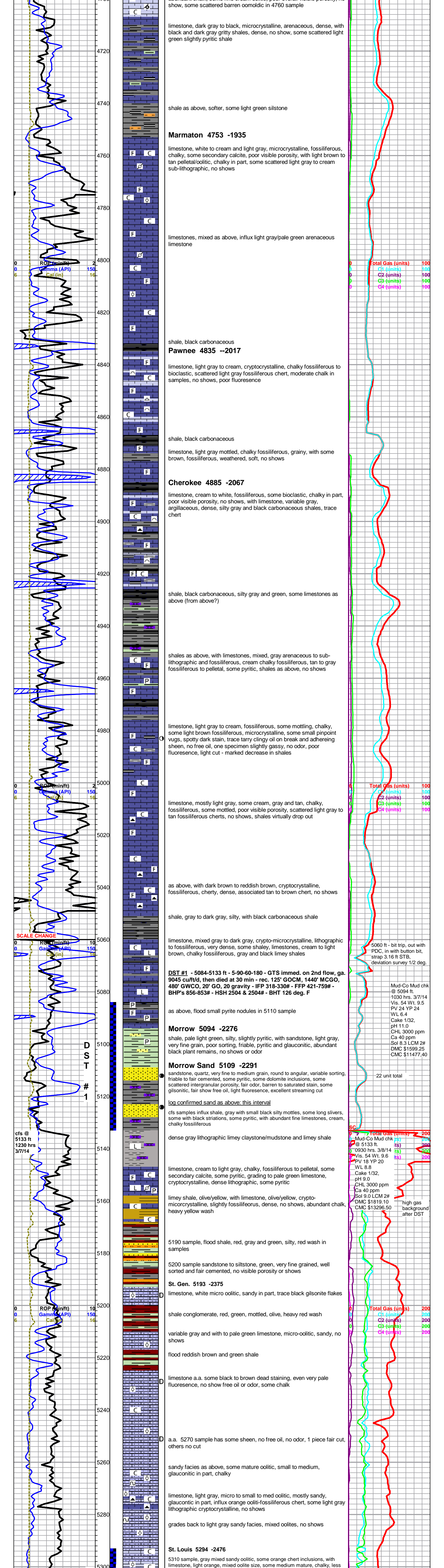
OTHER SYMBOLS

- | | |
|--------------------|------------|
| Oil Show | DST |
| ● Good Show | ■ DST Int |
| ○ Fair Show | ■ DST alt |
| ● Poor Show | ■ Core |
| ○ Spotted or Trace | tail pipe |
| ○ Questionable Stn | |
| ■ Dead Oil Stn | |
| ■ Fluorescence | |
| * Gas | |

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







limestone, dark gray to black, microcrystalline, arenaceous, dense, with black and dark gray gritty shales, dense, no show, some scattered light green slightly pyritic shale

shale as above, softer, some light green siltstone

Marmaton 4753 -1935

limestone, white to cream and light gray, microcrystalline, fossiliferous, chalky, some secondary calcite, poor visible porosity, with light brown to tan pelletal/oolitic, chalky in part, some scattered light gray to cream sub-lithographic, no shows

limestones, mixed as above, influx light gray/pale green arenaceous limestone

Pawnee 4835 --2017

limestone, light gray to cream, cryptocrystalline, chalky fossiliferous to bioclastic, scattered light gray fossiliferous chert, moderate chalk in samples, no shows, poor fluorescence

shale, black carbonaceous

limestone, light gray mottled, chalky fossiliferous, grainy, with some brown, fossiliferous, weathered, soft, no shows

Cherokee 4885 -2067

limestone, cream to white, fossiliferous, some bioclastic, chalky in part, poor visible porosity, no shows, with limestone, variable gray, argillaceous, dense, silty gray and black carbonaceous shales, trace chert

shale, black carbonaceous, silty gray and green, some limestones as above (from above?)

shales as above, with limestones, mixed, gray arenaceous to sub-lithographic and fossiliferous, cream chalky fossiliferous, tan to gray fossiliferous to pelletal, some pyritic, shales as above, no shows

limestone, light gray to cream, fossiliferous, some mottling, chalky, some light brown fossiliferous, microcrystalline, some small pinpoint vugs, spotty dark stain, trace tarry clingy oil on break and adhering sheen, no free oil, one specimen slightly gassy, no odor, poor fluorescence, light cut - marked decrease in shales

limestone, mostly light gray, some cream, gray and tan, chalky, fossiliferous, some mottled, poor visible porosity, scattered light gray to tan fossiliferous cherts, no shows, shales virtually drop out

as above, with dark brown to reddish brown, cryptocrystalline, fossiliferous, cherty, dense, associated tan to brown chert, no shows

shale, gray to dark gray, silty, with black carbonaceous shale

limestone, mixed gray to dark gray, crypto-microcrystalline, lithographic to fossiliferous, very dense, some shaly, limestones, cream to light brown, chalky fossiliferous, gray and black limey shales

DST #1 - 5084-5133 ft - 5-90-60-180 - GTS immed. on 2nd flow, ga. 9045 cu/ft/d, then died at 30 min - rec. 125' GOCM, 1440' MCGO, 480' GWCO, 20' GO, 20 gravity - IFP 318-330# - FFP 421-759# - BHP's 856-853# - HSH 2504 & 2504# - BHT 126 deg. F

as above, flood small pyrite nodules in 5110 sample

Morrow 5094 -2276

shale, pale light green, silty, slightly pyritic, with sandstone, light gray, very fine grain, poor sorting, friable, pyritic and glauconitic, abundant black plant remains, no shows or odor

Morrow Sand 5109 -2291

sandstone, quartz, very fine to medium grain, round to angular, variable sorting, friable to fair cemented, some pyritic, some dolomite inclusions, some scattered intergranular porosity, fair odor, barren to saturated stain, some gilsonitic, fair show free oil, light fluorescence, excellent streaming cut

log confirmed sand as above: this interval

cfs samples influx shale, gray with small black silty mottles, some long slivers, some with black striations, some pyritic, with abundant fine limestones, cream, chalky fossiliferous

dense gray lithographic limey claystone/mudstone and limey shale

limestone, cream to light gray, chalky, fossiliferous to pelletal, some secondary calcite, some pyritic, grading to pale green limestone, cryptocrystalline, dense lithographic, some pyritic

limey shale, olive/yellow, with limestone, olive/yellow, crypto-microcrystalline, slightly fossiliferous, dense, no shows, abundant chalk, heavy yellow wash

5190 sample, flood shale, red, gray and green, silty, red wash in samples

5200 sample sandstone to siltstone, green, very fine grained, well sorted and fair cemented, no visible porosity or shows

St. Gen. 5193 -2375

limestone, white micro oolitic, sandy in part, trace black gilsonite flakes

shale conglomerate, red, green, mottled, olive, heavy red wash

variable gray and with to pale green limestone, micro-oolitic, sandy, no shows

flood reddish brown and green shale

limestone a.a. some black to brown dead staining, even very pale fluorescence, no show free oil or odor, some chalk

a.a. 5270 sample has some sheen, no free oil, no odor, 1 piece fair cut, others no cut

sandy facies as above, some mature oolitic, small to medium, glauconitic in part, chalky

limestone, light gray, micro to small to med oolitic, mostly sandy, glauconitic in part, influx orange ooliti-fossiliferous chert, some light gray lithographic cryptocrystalline, no shows

grades back to light gray sandy facies, mixed oolites, no shows

St. Louis 5294 -2476

5310 sample, gray mixed sandy oolitic, some orange chert inclusions, with limestone, light orange, mixed oolite size, some medium mature, chalky, less

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

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

5060 ft - bit trip, out with PDC, in with button bit, strap 3.16 ft STB, deviation survey 1/2 deg.

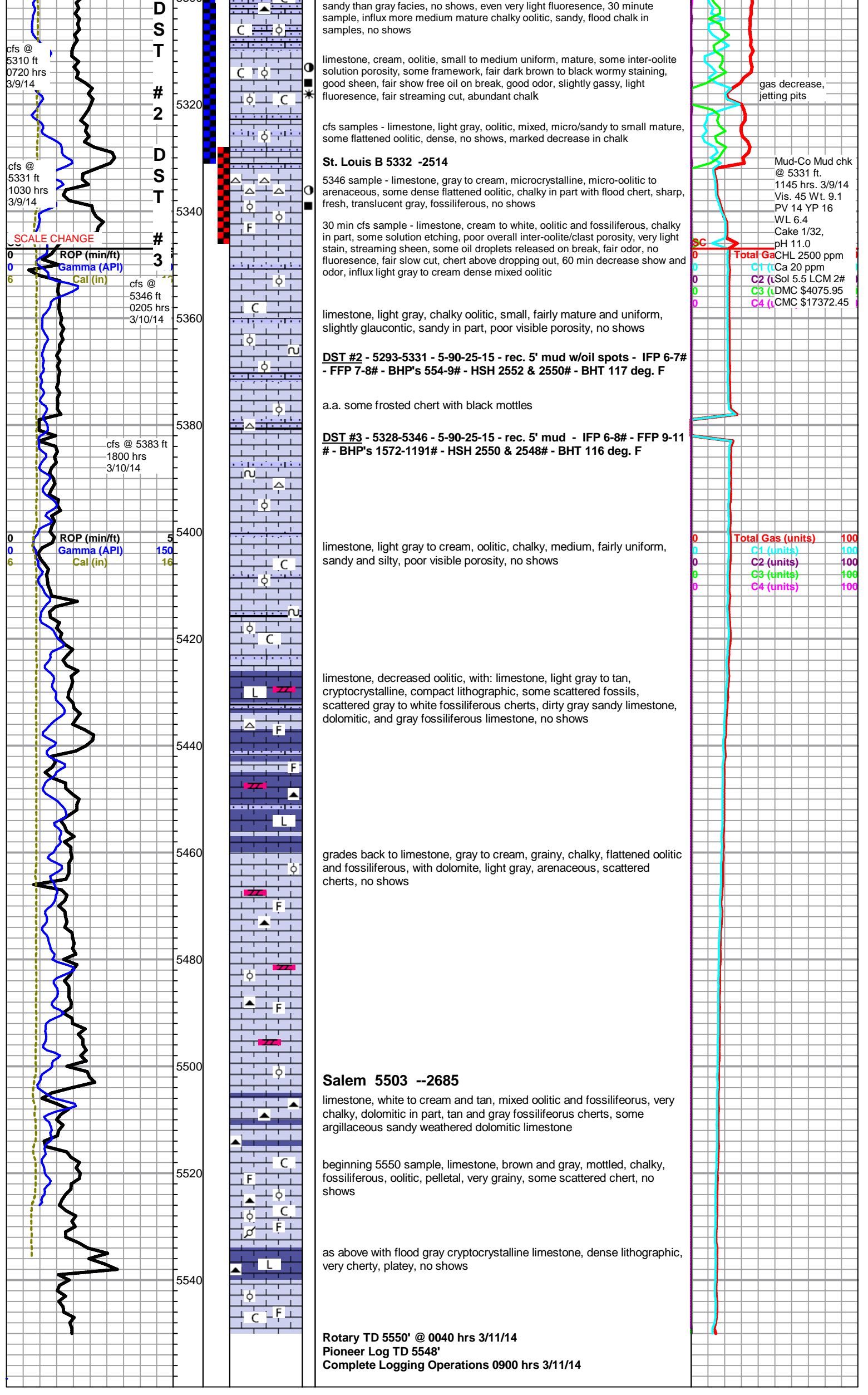
Mud-Co Mud chk @ 5094 ft. 1030 hrs. 3/7/14 Vis. 54 Wt. 9.5 PV 24 YP 24 WL 6.4 Cake 1/32, pH 11.0 CHL 3000 ppm Ca 40 ppm Sol 9.0 LCM 2# DMC \$1599.25 CMC \$11477.40

22 unit total

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

high gas background after DST

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200



sandy than gray facies, no shows, even very light fluorescence, 30 minute sample, influx more medium mature chalky oolitic, sandy, flood chalk in samples, no shows

limestone, cream, oolitic, small to medium uniform, mature, some inter-oolite solution porosity, some framework, fair dark brown to black wormy staining, good sheen, fair show free oil on break, good odor, slightly gassy, light fluorescence, fair streaming cut, abundant chalk

cfs samples - limestone, light gray, oolitic, mixed, micro/sandy to small mature, some flattened oolitic, dense, no shows, marked decrease in chalk

St. Louis B 5332 -2514

5346 sample - limestone, gray to cream, microcrystalline, micro-oolitic to arenaceous, some dense flattened oolitic, chalky in part with flood chert, sharp, fresh, translucent gray, fossiliferous, no shows

30 min cfs sample - limestone, cream to white, oolitic and fossiliferous, chalky in part, some solution etching, poor overall inter-oolite/clast porosity, very light stain, streaming sheen, some oil droplets released on break, fair odor, no fluorescence, fair slow cut, chert above dropping out, 60 min decrease show and odor, influx light gray to cream dense mixed oolitic

limestone, light gray, chalky oolitic, small, fairly mature and uniform, slightly glauconitic, sandy in part, poor visible porosity, no shows

DST #2 - 5293-5331 - 5-90-25-15 - rec. 5' mud w/oil spots - IFP 6-7# - FFP 7-8# - BHP's 554-9# - HSH 2552 & 2550# - BHT 117 deg. F

a.a. some frosted chert with black mottles

DST #3 - 5328-5346 - 5-90-25-15 - rec. 5' mud - IFP 6-8# - FFP 9-11# - BHP's 1572-1191# - HSH 2550 & 2548# - BHT 116 deg. F

limestone, light gray to cream, oolitic, chalky, medium, fairly uniform, sandy and silty, poor visible porosity, no shows

limestone, decreased oolitic, with: limestone, light gray to tan, cryptocrystalline, compact lithographic, some scattered fossils, scattered gray to white fossiliferous cherts, dirty gray sandy limestone, dolomitic, and gray fossiliferous limestone, no shows

grades back to limestone, gray to cream, grainy, chalky, flattened oolitic and fossiliferous, with dolomite, light gray, arenaceous, scattered cherts, no shows

Salem 5503 --2685

limestone, white to cream and tan, mixed oolitic and fossiliferous, very chalky, dolomitic in part, tan and gray fossiliferous cherts, some argillaceous sandy weathered dolomitic limestone

beginning 5550 sample, limestone, brown and gray, mottled, chalky, fossiliferous, oolitic, pelletal, very grainy, some scattered chert, no shows

as above with flood gray cryptocrystalline limestone, dense lithographic, very cherty, platy, no shows

Rotary TD 5550' @ 0040 hrs 3/11/14
Pioneer Log TD 5548'
Complete Logging Operations 0900 hrs 3/11/14

gas decrease, jetting pits

Mud-Co Mud chk @ 5331 ft. 1145 hrs. 3/9/14 Vis. 45 Wt. 9.1 PV 14 YP 16 WL 6.4 Cake 1/32, pH 11.0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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