

# LITHOLOGY STRIP LOG

## WellSight Systems

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

Measured Depth Log

Well Name: VINCENT OIL CORP. FREY #1-5

Location: SW NE NW SW SEC. 5, T28S, R23W, FORD CO. KANSAS

License Number: 15-057-20928-00-00

Region: WILDCAT

Spud Date: 3/18/14

Drilling Completed: 3/31/14

Surface Coordinates: 2,100' FSL, 670' FWL

### Bottom Hole Coordinates:

Ground Elevation (ft): 2,491'

K.B. Elevation (ft): 2,503'

Logged Interval (ft): 4,100' To: 5,251' Total Depth (ft): 5,251'

Formation: Mississippi

Type of Drilling Fluid: NATIVE MUD TO 3,801'. CHEMICAL GEL TO RTD.

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

Company: VINCENT OIL CORP.

Address: 155 N. MARKET STE 700

WICHITA, KANSAS 67202-1821

OFFICE; 316-262-3573

### GEOLOGIST

Name: Jame R. Hall Well Site Supervision

Company: Black Gold Petroleum

Address: 5530 N. Sedgwick

Wichita, Kansas 67204-1828

316-838-2574

## Comments

Drilling contractor: Duke Drilling, Rig #1, Tool Pusher Mike Godfrey.

Surface Casing: 8 5/8" set at 644' w/ 300sx, cement did circulate.

Daily Activity: @07:00hrs.

3/18/14; move on and rig up. Spud @ 23:15hrs.

3/19/14; drilling 12 1/4" hole @ 164'.

3/20/14; drilling 7 7/8" hole @ 678'.

3/21/14; drilling @ 1,934'.

3/22/14; drilling @ 2,590'. Down for 7.5hrs. for trip and rig repair.

3/23/14; drilling @ 3,205'.

3/24/14; drilling @ 3,690'. Down for 6.75hrs. trip for hole in two drilling collars and rig repair (hydromatic).

3/25/14; drilling @ 4,330'. circulated Toronto Porosity 1hr., rig repair (hydromatic)1hr.

3/26/14; drilling @ 4,718'. 3.5hrs. rig repair (hydromatic).

3/27/14; drilling @ 4,895'. 1/2hr circulating samples prior to trip out for hydromatic repair, 9hrs down rig repair (hydromatic) and trip.

3/28/14; 4,940' DST #1 Pawnee (4,912' - 4,940'), made 25std short trip prior to test #1, back to bottom to condition, tripped out to test and found hole in the pipe 40 stands off bottom. Tripped back to bottom to condition again prior to testing. Made up test tool, then started to pickup string to trip in hole, blocks bent the monkey board, could not trip pipe. Total Co. time last 24hrs (18.75hrs). 11.5hrs. of that time was spent due to extra trip and conditioning time due to hole in pipe, and waiting on welder to repair monkey board.

3/29/14; drilling @ 4,987'. company time DST #1 (14.5hrs.) Rig repairs and waiting on welder (6.5hrs.).

3/30/14; Running DST #2 Mississippi 4,998' - 5,125' (127'). Estimated company time testing and circulating the last 24hrs. (15 1/2hrs.).

3/31/14; Tripping out to run open hole logs. Estimated Co. time the last 24hrs. (15hrs.). The well was P&A, after E-log, DST's and Strip log evaluation.

Deviation Surveys: 1 @ 645', 1 @ 1,181', 1 @ 1,780' 1 @ 2,280', 0.25 @ 4,940' 1/2 @ 5,251'.

### Bit Record:

#1 12 1/4" out @ 645'.

#2 7 7/8" Varel HA 21 in @ 645', out @ 5,125', made 4,480' in (125.5)hrs.

#3 7 7/8" Varel RR HE 31 in @ 5,125', out @ 5,251', made 126' in 7.75hrs.

Drilling time commenced: @ 4,100'. Maximum 10' wet and dry samples commenced: @ 4,150' to RTD, (at times 5' samples were used). Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Bluestem Labs; digital unit # 0756. .

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 3,801', Mud Engineer: Justin Whiting (Dodge City)

Open Hole Logs: Nabors Hays, Kansas, Logging Engineer: Jeff Luebbers.  
DIL, CDL/CNL/PE, MEL/SON.

Sample tops are placed on this strip log (with the reference wells "A" Vincent Riegel #1-9 9-T28S-R23W, and "B" Vincent Steele #1-6 6-T28S-R23W. Top datum differences are shown, on this strip log.

## DSTs

**DST #1 Pawnee 4,912' - 4,940' (28'), 30-60-60-120, IH 2429, IF 243-365 (BOB 30sec.), ISI 1,305 (BOB 17min), FF 384-568 (BOB 8min), FSI 1,302, FH 2363, Rec; 3,354' GIP, 234' GCM (5%g,95%m), 189' MCG (60%g,40%m), 189' MCWOG (40%g,40%o,10%w,10%m), 63' MCWGO (30%g,30%o,20%w,20%m), 378' Water, Chl 50,000ppm, Rw 0.2@40F, @ BHT 0.0678), BHT 118F. Mud Co. measured Chl 105,000ppm.**

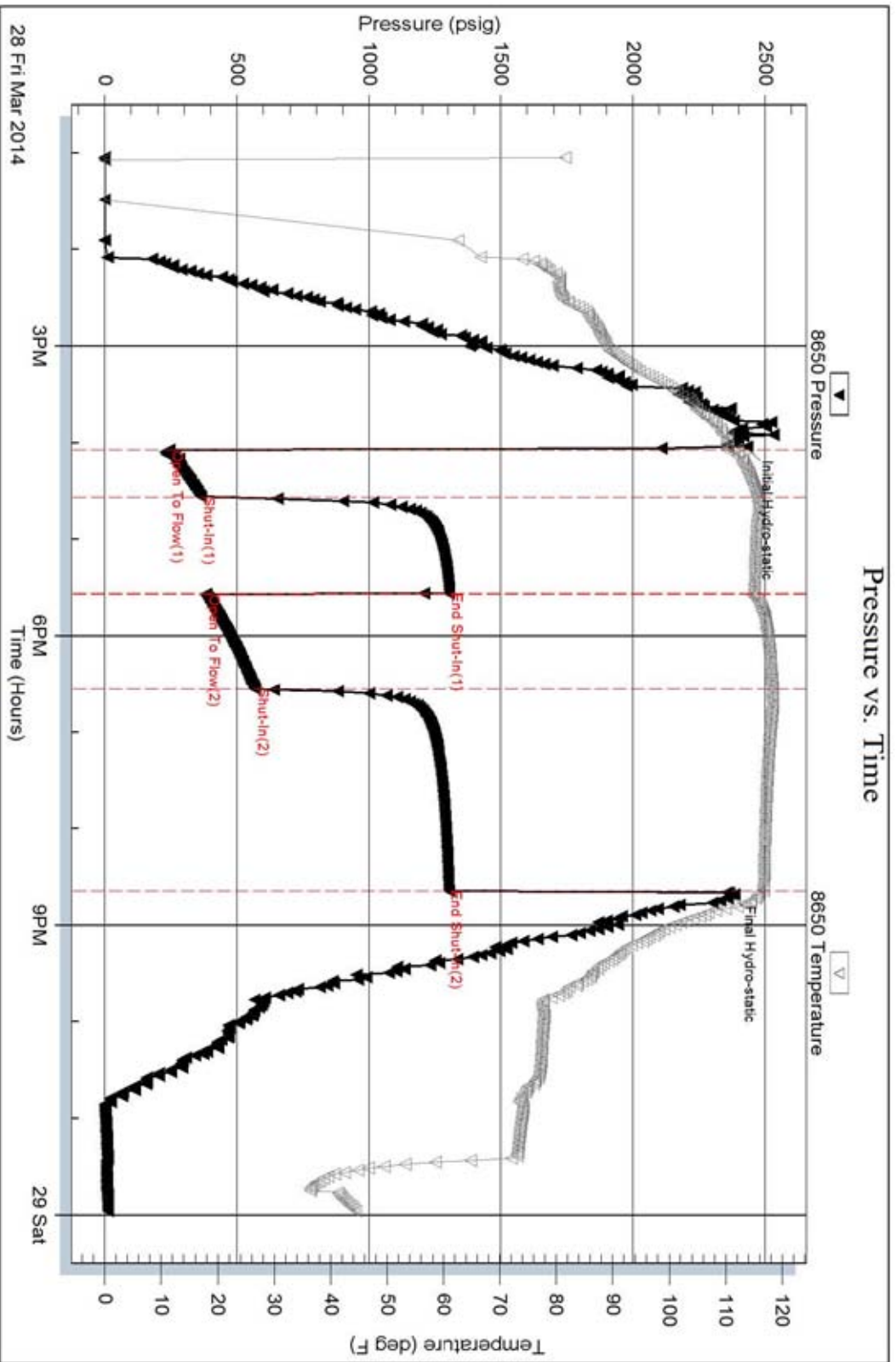
**DST #2 Mississippi 4,998' - 5,125' (127'), 45-60-60-120, IH 2562, IF 42-73 (BOB 10min 1/4" hose was plugged), ISI 1262 (no blow), FF 94-111 (BOB Immediately), FSI 1376, FH 2407, Rec; 3,087' GIP, 78' Mud (100%m), 126' GCOM (5%g,5%o,90%m), BHT 113F.**

Serial #: 8650

Vincent Oil Corporation

Frey #1-5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56458

Printed: 2014.03.29 @ 02:29:56

Serial #: 8675

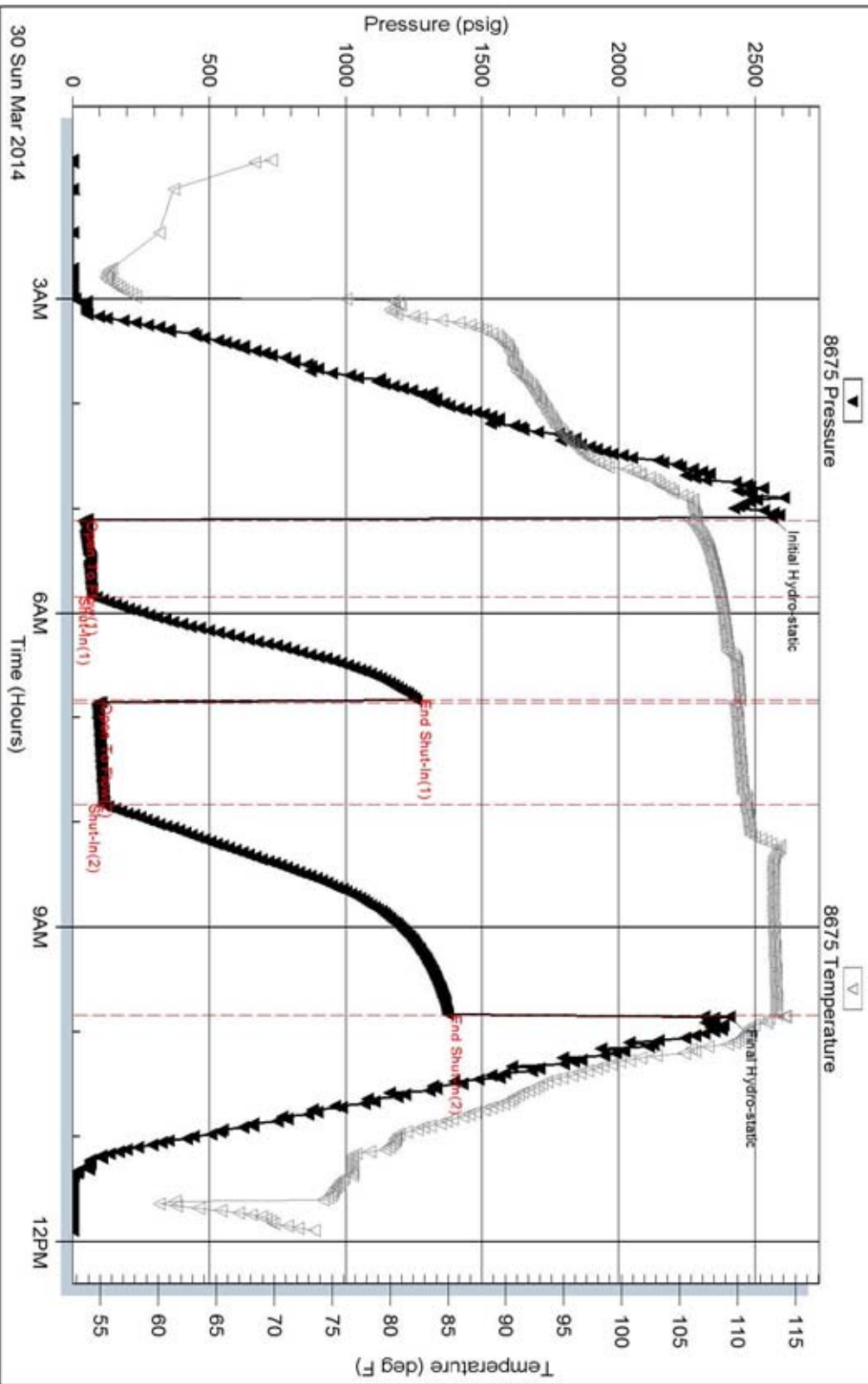
Inside

Vincent Oil Corporation

Frey #1-5

DST Test Number: 2

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 56459

Printed: 2014.03.30 @ 17:54:12

**WELL SITE OPERATIONS / JIM HALL SUPERVISOR**

**OPERATOR:**

Vincent Oil Corp.

**WELL REFERENCE SHEET**

**SUBJECT WELL:**

Frey # 1-5

**SUBJECT WELL LOCATION:**

SW NE NW SW 5-T28S-R23W, Ford Co. Kansas

**SUBJECT WELL DATUM:**

**2,503**

**REF. WELL 'A'**

Riegel #1-9 NW/4 9-T28S-R23W

**DATUM:**

**2,494**

**REF. WELL 'B'**

Steele #1-6 6-T28S-R23W

**DATUM:**

**2,511**

**E-LOG TOPS**

**SUBJECT WELL:  
ZONE**

**WELL 'A'**

**WELL 'B'**

	<b>DEPTH</b>	<b>DATUM</b>	<b>DEPTH</b>	<b>DATUM</b>	<b>REF.</b>	<b>DEPTH</b>	<b>DATUM</b>	<b>REF.</b>
HEEB.	4,266	-1,763	4,255	-1,761	-2	4,259	-1,748	-15
Brown Ls.	4,392	-1,889	4,385	-1,891	2	4,379	-1,868	-21
Lansing	4,400	-1,897	4,395	-1,901	4	4,390	-1,879	-18
Stark Sh	4,708	-2,205	4,700	-2,206	1	4,701	-2,190	-15
Hushp. Sh	4,753	-2,250	4,749	-2,255	5	4,745	-2,234	-16
Marmaton	4,848	-2,345	4,859	-2,365	20	4,847	-2,336	-9
PAWNEE	4,922	-2,419	4,925	-2,431	12	4,920	-2,409	-10
Labette Sh	4,950	-2,447	4,947	-2,453	6	4,945	-2,434	-13
CKE Sh	4,970	-2,467	4,969	-2,475	8	4,966	-2,455	-12
2nd CKE	5,000	-2,497	5,000	-2,506	9	4,999	-2,488	-9
B/Penn.	5,071	-2,568	5,069	-2,575	7	5,068	-2,557	-11
SAND			5,086	-2,592				
ChertCong						5,088	-2,577	
MISS.	5,090	-2,587	5,100	-2,606	19	5,102	-2,591	4
1st Por.	5,100	-2,597	5,110	-2,616	19	5,124	-2,613	16
2nd Por.	5,116	-2,613	5,116	-2,622	9	5,135	-2,624	11

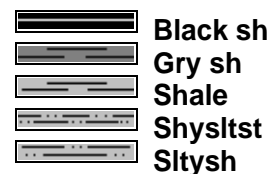
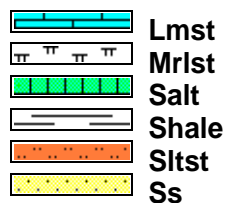
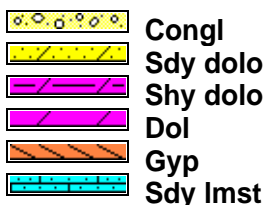
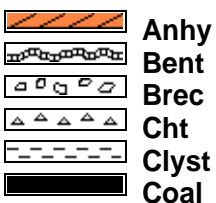
## Qualifiers

### CARBONATE CLASSIFICATION:

**AFTER DUNHAM:** GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. **MUDSTONE;** muddy carbonate rocks containing less than 10% grains. **WACKESTONE;** mud supported carbonate rocks with more than 10% grains. **PACKSTONE;** grain supported muddy carbonate rocks. **GRAINSTONE;** mud free carbonate rock, grain supported. **BOUNDSTONE;** carbonate rock bound together at deposition (coral, etc.). **CRYSTALLINE CARBONATE;** carbonate rock retaining to little of their depositional texture to be classified.

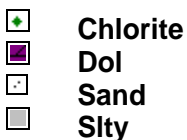
Qualifiers; porosity, fossils, show, chert, etc.: rare = less than 1% of sample total, trace = less than 5% of sample total, >5% estimate of total percent of sample.

### ROCK TYPES

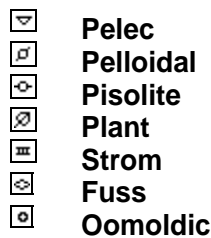
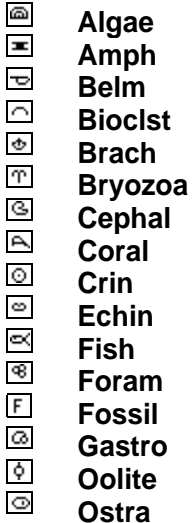


### ACCESSORIES

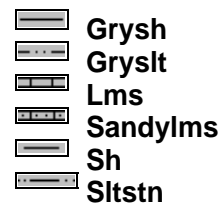
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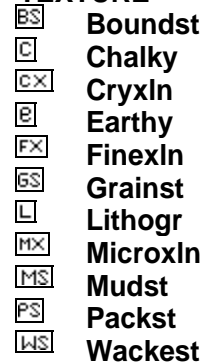
#### FOSSIL



#### STRINGER

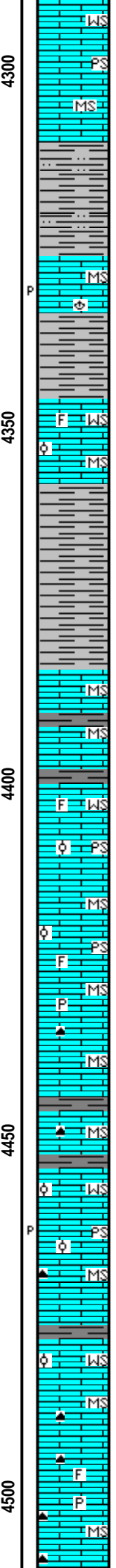
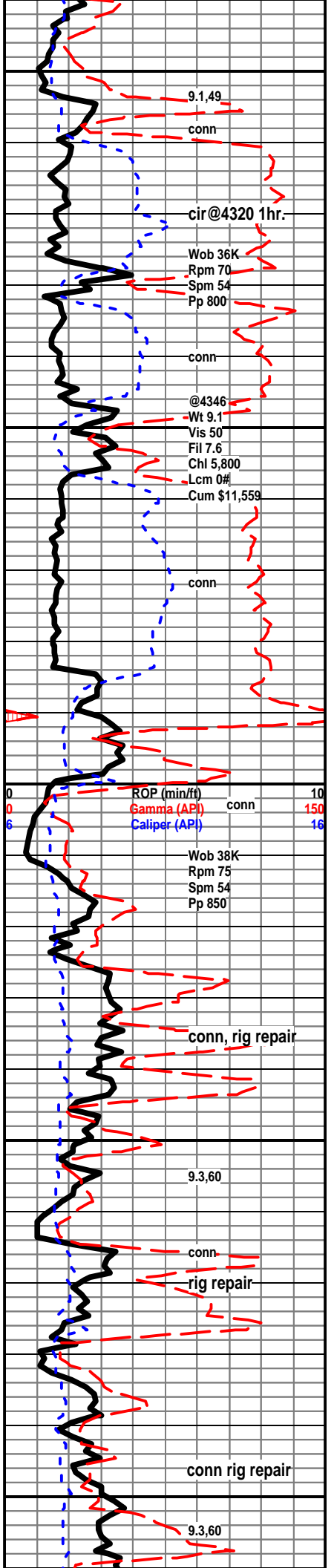


#### TEXTURE









Wackestone to Packstone; cream to tan, occasionally off white, most brittle, chalky, rare chert inclusions, micro-oolitic to micro-fossil frag., no cut on selected samples, no show, no visible porosity in the wet.

Mudstone; gray, silky-dense, crystalline texture.

Shale; very slight increase in % gray, black and occasionally gray-green sub waxy, some silty.

Mudstone; cream to buff, rare brach inclusions, tight looking wet, rare barren porosity-cave?

Shale; gray, gray-green, to pale green-sub waxy, to black.

Wackestone; cream to tan, fossil-fragments to micro-oolitic, tight look wet, dull yellow fluorescence-no cut, Mudstone; brown, crystalline, rare fossil inclusions.

Shale; as above, majority to samples are limestone from above, no real change here.

**Brown Lime 4390 (-1887) A +4, B -19**

Mudstone; tan to gray, dense, some crystalline.

**Lansing 4400 (-1897) A +4 B -18**

Wackestone to Packstone; cream to buff, fine oolites to micro-oolitic, occasionally micro-fossiliferous, dull gold to yellow fluorescence, no show or visible porosity in the wet sample, poor quality sample.

Mudstone; tan chalky, dense, poor quality as above, much shale in sample here!

Packstone; off white, cream, micro-oolitic, soft to brittle, dull gold and yellow mineral fluorescence, no show, no cut.

Mudstone; brown, dense, crystalline, silky texture, rare free dark chert and pyrite.

Mudstone; cream to tan, hard, chalky, dense, rare dark free blocky chert, dull gold and yellow mineral fluorescence, no show in wet.

Shale; black, gray, gray-green, rare dark brown with carbonaceous inclusions.

Wackestone; cream to off white, micro-oolitic, dense, mineral fluorescence only, no show in wet.

Packstone; micro-oolitic, no show, rare barren porosity in the dry sample.

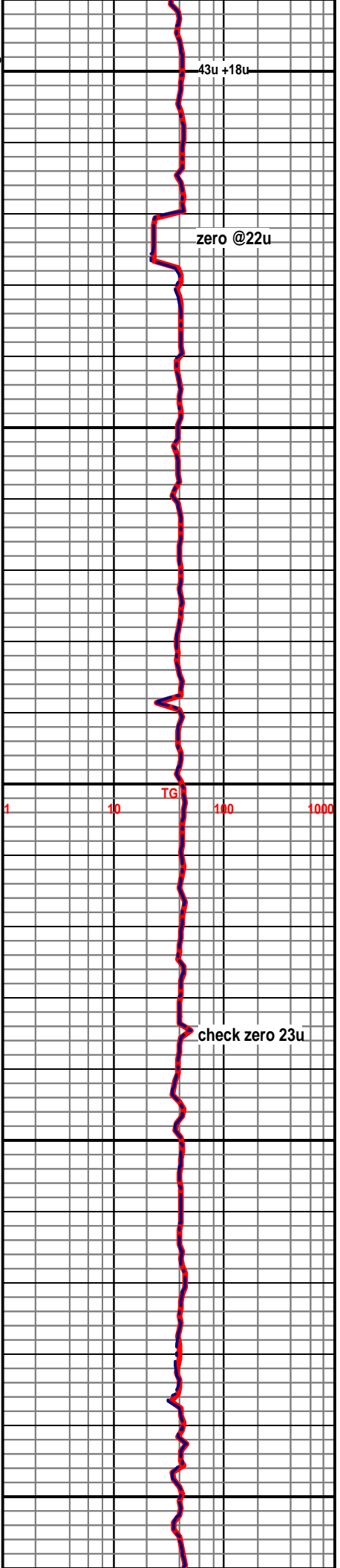
Mudstone; cream to gray and tan, dense, rare free blue-gray chert.

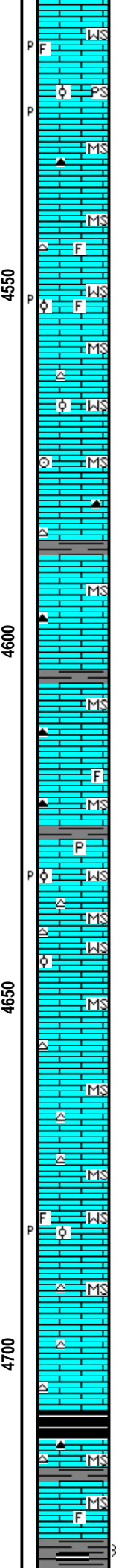
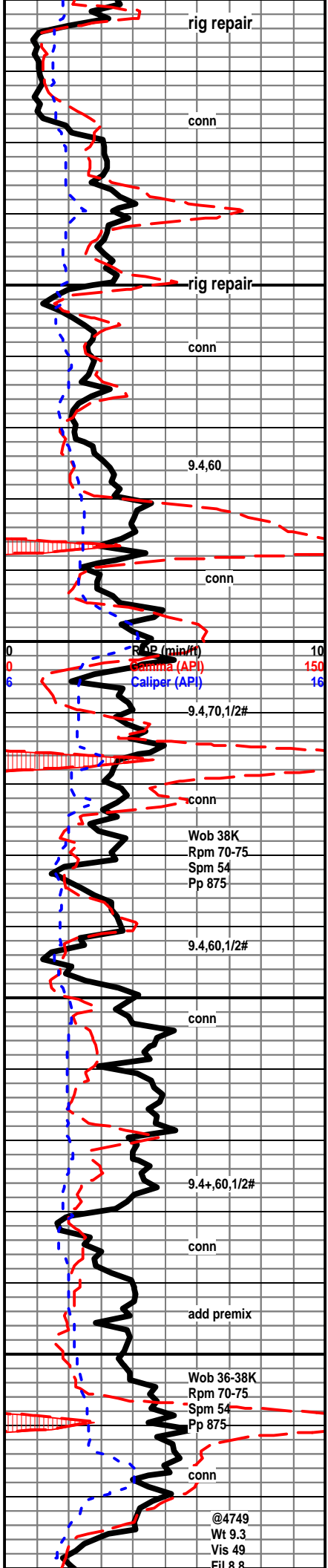
Shale; black, gray, gray-green.

Wackestone; cream to off white, chalky, hard to brittle, micro-oolitic, no show.

Mudstone; gray, hard, blocky, dense, some with silky texture, free gray chert, dull gold mineral fluorescence here.

Mudstone; tan to brown, some gray, rare fossil fragments in the matrix, dense look in wet, trace with very fine crystalline look, rare free pyrite and gray chert.





Wackestone; to Packstone; cream, off white to brown, micro-oolitic, to trace micro-fossil fragments, chalky to crystalline matrix, looks tight in the wet, rare barren porosity in the dry, dull mineral fluorescence only, poor sample representation here!

Mudstone; cream to gray and brown, hard, chalky to crystalline matrix, dense looking in the wet, rare free brown chert here.

Mudstone; cream to gray, occasionally brown, some micro-fossiliferous, rare light chert.

Wackestone; micro-oolitic to micro-fossiliferous, hard, most chalky matrix, no show, rare barren porosity visible in the dry

Mudstone; cream to brown, chalky to crystalline-silky texture, tight, rare light gray free chert.

Wackestone; micro-oolitic, chalky, tight looking in wet, mineral fluorescence only.

Mudstone; cream to tan, occasionally gray, rare free crinoid stem and fusulinid, no show, trace gray and blue gray free chert.

Shale; dark gray, black, most soft.

Mudstone; cream to brown, tan, chalky to crystalline-silky dense texture, rare dark brown chert.

Mudstone; cream to tan, occasionally gray, most chalky, some silky crystalline, tight looking in wet, rare fossil fragments in the matrix, trace free brown and gray chert.

Shale; slight increase in dark gray, gray, gray-green, brittle, some black.

Wackestone; cream to off white, micro-ool, hard, chalky, yellow and dull gold min. fluor, no show, rare porosity in the dry.

Wackestone; cream to brown, hard, micro-oolitic, rare micro-fossil fragments, yellow mineral fluor. no cut, no show.

Mudstone; most cream, hard, chalky, scattered crystalline-dense, silky texture, rare free chert.

Mudstone; cream as above, less % of shale in the sample here, rare free light chert.

Mudstone; as above, no real change here, free light chert.

Wackestone; cream to brown, hard, most with chalky texture, micro-oolitic, rare fossil fragments in tight looking matrix in the wet, min. fluor. only, rare barren porosity in the dry, no show.

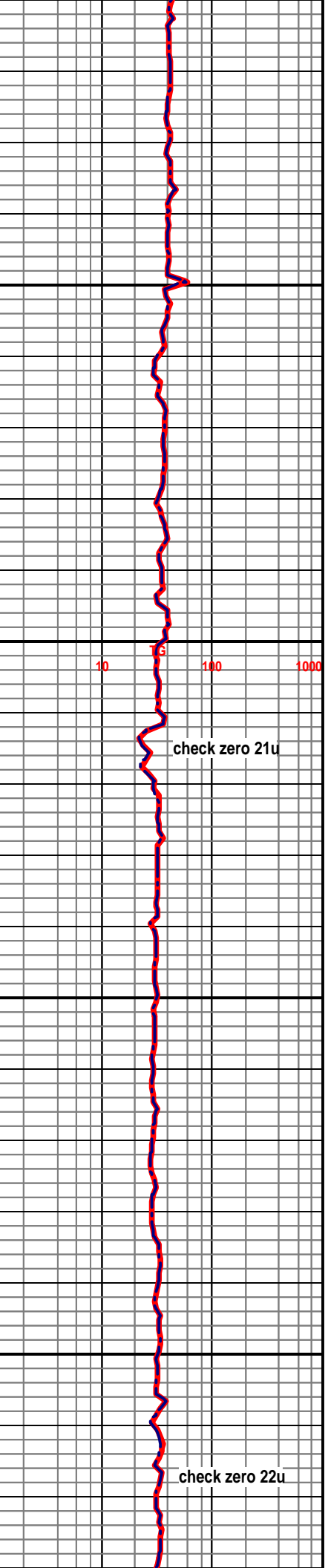
Mudstone; cream, most chalky, rare free blue-gray chert here.

Mudstone; most cream to tan, chalky, hard to brittle, dense, rare spotty wormy dark stain-no cut, rare free chert, rare fine oolitic Packstone-tight, no show, cave? Shale; slight inc. % gray, gray-green to rare black, no visible gas bubbles when broken.

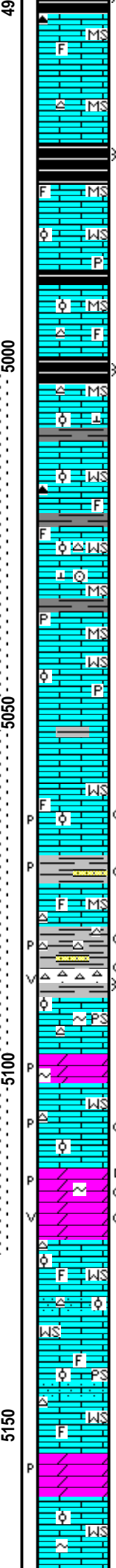
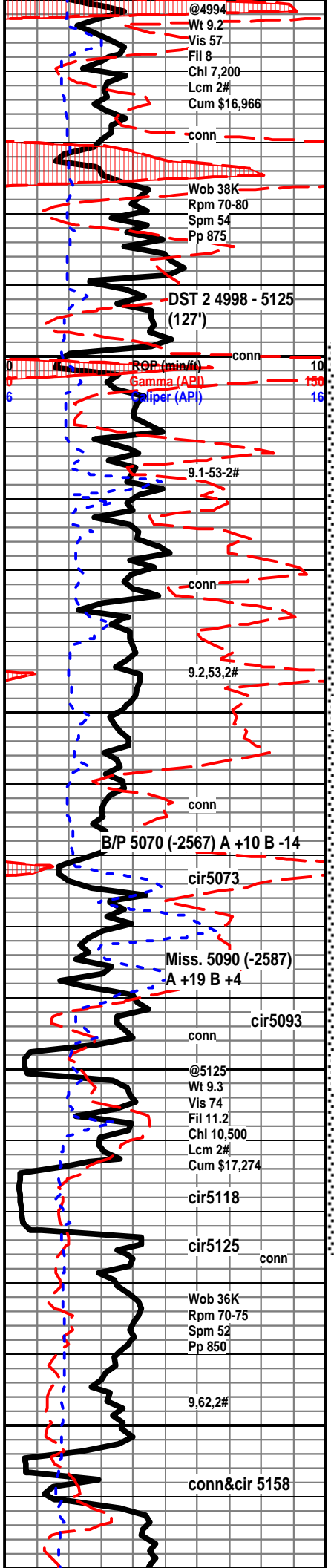
**Stark 4709 (-2206) A even B -16**

Shale; black carbonaceous, rare dark gray with carbonaceous inclusions.

Shale; increase in gray, gray-green, dark gray-some with carbonaceous inclusions, one sample gassy black shale in the







Mudstone; brown, crystalline, dense, rare fossil fragments in the matrix, rare dark brown free chert, sample quality still poor.

Mudstone cream to gray, chalky to crystalline, dense, sample quality better.

**CKE 4970 (-2467) A +8 B -12**

Shale; carbonaceous, gassy.

Mudstone; most as above, dull mineral fluor. no show, quality improving with depth.

Wackestone; cream-chalky, tan-crystalline to chalky, micro-oolitic and rare very fine oolites in a tight looking matrix, rare micro-fossils, dull fluor., NS.

Mudstone; cream-chalky, tan-crystalline, dense mixed with Wackestone as above, no show.

Shale; carbonaceous gassy.

Mudstone / Wackestone; as above, rare free fossiliferous opaque calcite.

Wackestone; cream-chalky, tan to brown crystalline, micro-oolitic to micro-fossiliferous in a tight looking matrix, rare free brown chert, approx. 5% spotty yellow fluorescence here however no cut-mineral.

AA; spotty dull yellow fluorescence-no cut.

Mudstone; cream to gray, chalky, hard to brittle, rare yellow spotty fluor., no cut.

Wackestone; small influx, off white, brittle micro-oolitic, dense looking matrix, rare yellow fluorescence-no cut, no show.

Wackestone; aa, small increase in cream to gray chalky, no show, shales gray-black as above, and pale green as above, large % increase.

Wackestone; cream, brittle, most chalky, rare silky-crystalline micro-oolitic to micro-foss., 5% bright fluorescence, instant milky cut, rare spotty barren porosity, no odor, no visible oil.

Shale; slight increase here, more pale and sea green, rare mottled ocher, rare SS; ufg, wlsrtd, wlcons, light to dark gray, no visible fluorescence, rare milky cut on dead looking stain, 90min >SS.

Shale; gray, green, vry color. hard to soft, some arenaceous, rare free chert, fresh to spotty stain, rare bleed gas and brown oil, no odor, looks tight to produce.

Packstone; small influx, off white, fine oolitic, rare glauconite, looks tight no show.

Dolomite; light gray to buff, hard to friable, gritty to very fine sucrosic texture, rare barren porosity, most look tight, no show.

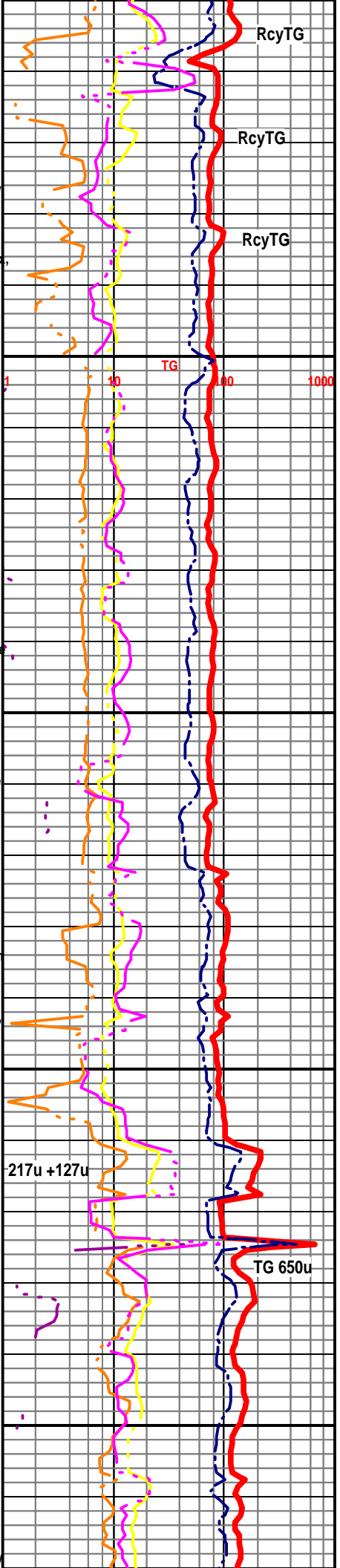
Dolomite; light gray to occasionally buff, hard to friable, scattered barren porosity, trace with black wormy dead looking stain, with instant cut-but rare visible porosity-no live oil stain, trace spotty brown stain with brown oil and odor when broken, some pinpoint and small vuggy porosity with brown oi, much of the Dolomite however looks barren and tight. decrease in gas after circulating @ 5118', however over all show and lack of looks similar.

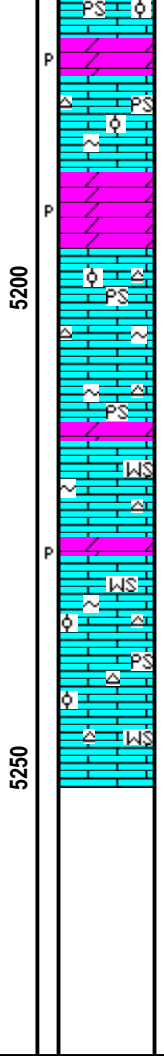
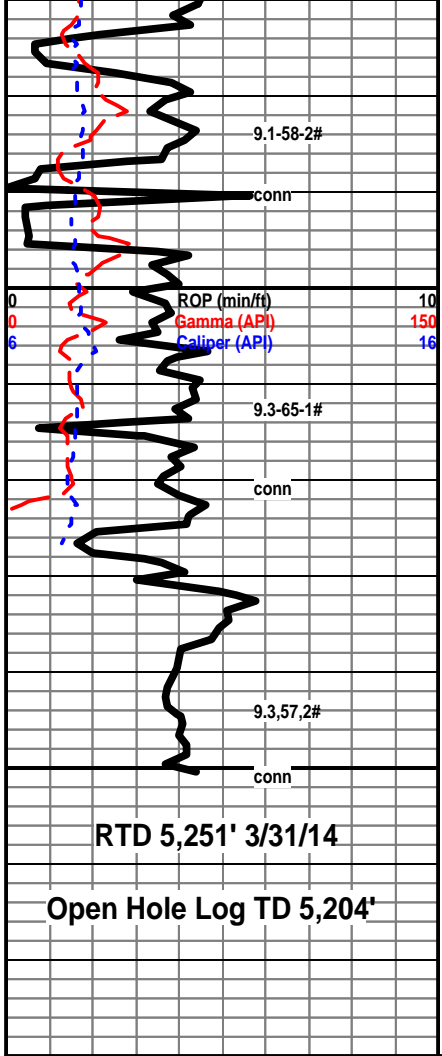
Wackestone; to Packstone; cream to off white, fine oolites to micro-oolites in a tight looking chalky matrix, traces off white highly chalky-sandy limestone, soft to firm, rare free bone white chert, some oolitic, very colored shales in the samples-cave, no odor and no new shows.

Wackestone; as above, rare free chert as above, rare cong. chert from above with black stain.

Dolomite; tan, hard to firm, gritty to fine sucrosic dull chalky texture, looks tight in the wet, no odor, in the washed or unwashed samples, no visible porosity in the wet, barren porosity in the dry sample.

Wackestone; to Packstone; fine oolitic to micro-oolitic, chalky





matrix, no show

Dolomite; tan light brown and gray, gritty, rear cream, friable brittle, por. visible in dry, no show

Packstone; cream to off white, fine to micro oolites in a chalky matrix, rare gray-highly glauconitic, no show.

Dolomite, gray to buff, hard to brittle, gritty texture, dull chalk luster, no show, barren por. in the dry.

Packstone; fine oolitic, to micro-oolitic, chalky, most white to cream, soft to brittle, no visible porosity in the wet or dry, rare glauconite, free bone white chert, some oolitic

Packstone; cream to off white, hard to soft, mostly chalky matrix, fine oolites to micro-oolities, rare copper inclusions, rare glauconite in the matrix, approx. 5% free white chert, rare light gray chert.

Dolomite; cream to light gray, gritty texture, hard, barren porosity in the dry, no show.

Wackestone; cream to off white, micro-oolitic, chalky to crystalline matrix, rare glauconite, approx. 5% free chert in sample, some fossiliferous.

Wackestone to Packstone; as above, approx. 10% free chert, rare bone white chert inclusions, slight increase in cream to off white Mudstone, chalky to crystalline, dense, slight increase in vary colored shale here.

