LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name:	**VINCENT OIL CORP. SCHEIB #1-29**
API:	**15-057-20955-00-00**
Location:	**E/2 W/2 SW SE SEC. 29, T 29S, R 24W, FORD CO. KS.**
License Number:	**Vincent Oil 5004**
Region:	**Fager East**
Spud Date:	**11/24/14**
Drilling Completed:	**12/05/14**
Surface Coordinates:	**660' FSL, 1,985' FEL**
Bottom Hole Coordinates:	
Ground Elevation (ft):	**2,574'**
K.B. Elevation (ft):	**2,586'**
Logged Interval (ft):	**4,250'** **To: 5,460'**
Total Depth (ft):	**5,460'**
Formation:	**RTD IN MISSISSIPPI**
Type of Drilling Fluid:	**NATIVE MUD TO 3,764'. CHEMICAL GEL TO RTD**

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 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
Office: 316-838-2574, cell: 316-217-1223

Comments

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

Surface Casing: 8 5/8" set at 648' w/250sx, cement, did circulate.

Daily Activity: @07:00hrs.

11/24/14; Move on and spud.
11/25/14; 649', Conditioning to run 8 5/8' casing.
11/26/14; 1,246', Drilling.
11/27/14; 2,450', Drilling.
11/28/14; 3,240' Drilling. Displaced mud system to chemical gel @ 3,764'.
11/29/14; 3,935' Drilling.
11/30/14; 4,464' Drilling.
12/01/14; 4,940' Drilling. Circulated Pawnee @ 5,146'. Short trip, back to bottom, condition. Trip out for DST #1 5,104' - 5,146' (42').
12/02/14; 5,146' Running DST #1.
12/03/14; 5,273' Drilling in Lower Penn. Commenced DST #2 5,274' - 5,336' (62').
12/04/14; 5,336' Running DST #2.
12/05/14; 5,410' Running DST #3, 5,334 - 5,410' (76') RTD @ 5,460', condition, trip out and commence open hole logs.
12/06/14; 5,460' After evaluation of the open hole logs, DST's and lithology shows, the operator made the decision to P&A the well.

Deviation Surveys: 0.75 deg. @ 649', 1 deg. @ 1180', 1 deg. @ 1,717', 1 deg. @ 2,224', 1 deg. @ 3,260', 1 deg. @ 5,146' 1 deg. @ 5,460'.

Bit Record:
#1 12 1/4" out @ 649'.
#2 7 7/8" Varel HE 21 in @ 649', out @ 5,146' made 4,497'.
#3 7 7/8" RR CH 29 in @ 5,146', out @ 5,460' made 314'.

Drilling time commenced: @ 4,250'. Maximum 10' wet and dry samples commenced: @ 4,300' to RTD. Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Blue Stem unit #0557. Digital Unit, (commenced @ 4,250').

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 3,764', Mud Engineer: Justen Whitin (Dodge City Office).

DST's: Trilobite Testing Inc., Tester: Ryan Renolds (Pratt Office).

Open Hole Logs: , Nabors Completion & Production Service co., Hays, Kansas.
Logging Engineer: Jeff Luebbers.
DIL, CDL/CNL/PE, MICRO (detail to 4,250'), SONIC (detail to surface csg).

Sample tops are placed on this Plotted Geo. Report, with the reference wells "A" Vincent Dufford #2-32, NW NW NW NE 32-T29S-R24W, and "B" Vincent Dufford #1-32, 430' FNL, 1,105' FEL 32-T29S-24W. E-log tops datum differences shown.

This Plotted Geological Report, must be shifted approximately 2 to 3 feet shallow, to correlate with the open hole logs.

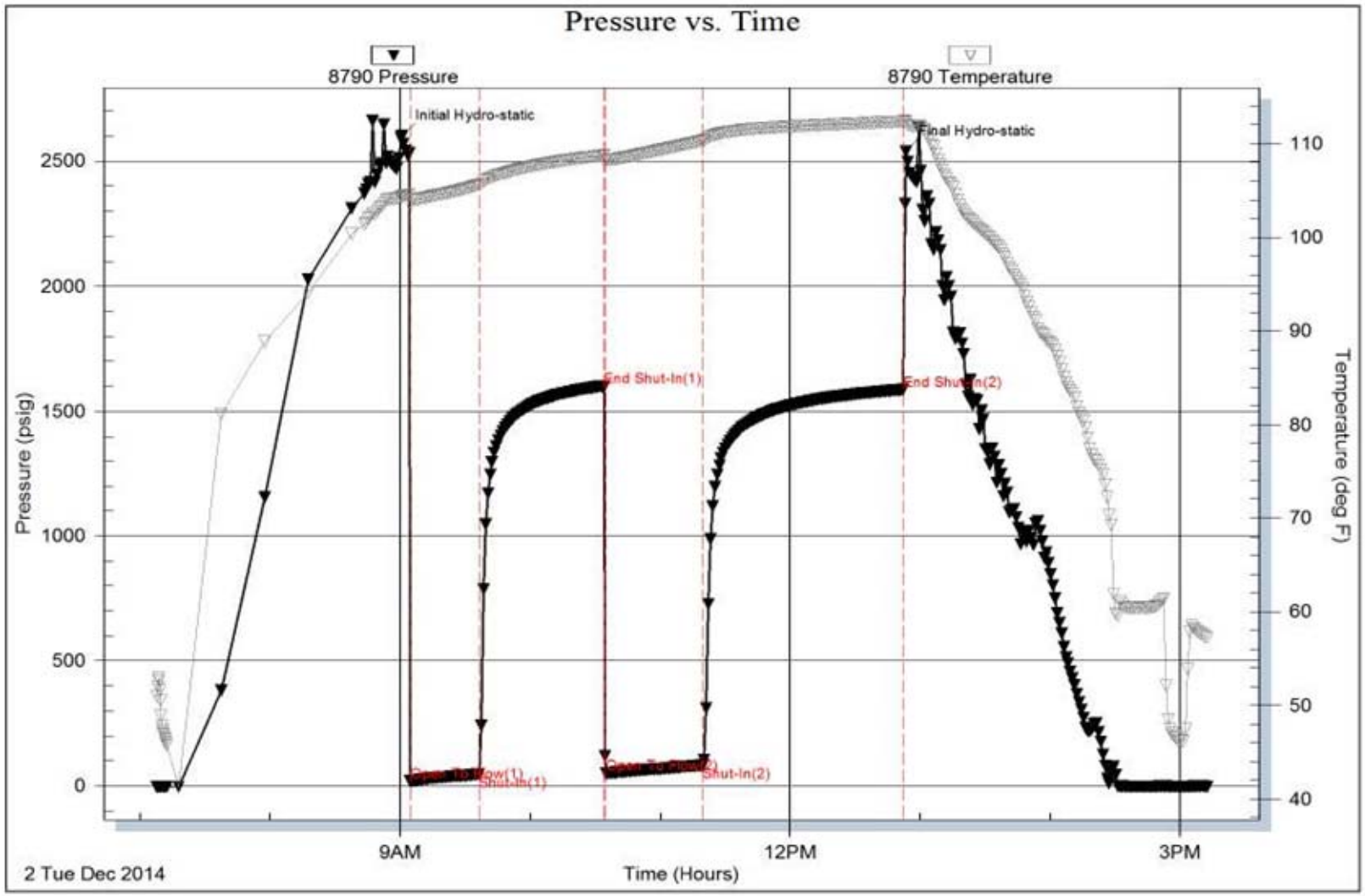
DSTs

DST #1 Pawnee, 5,104' - 5,146' (42'), 30-60-45-90, IH 2601, IF 19-47 (4"blow), ISI 1601 (no blow), FF 50-83 (4"blov FSI 1587 (no blow), FH 2539, Rec; 140' MCW (65%water,35%mud), Rwa 0.16 @ 51F (0.073 @ BHT), BHT 112F, Ch 65,000ppm, drilling mud 6,800ppm.

DST #2 Chert, 5,274' - 5,336' (62'), IH 2691, IF 22-23 (BOB 1min, no gas to surface), ISI 534 (no blow), FF 25-28 (BOB immed., no gas to surface), FSI 698 (no blow), FH 2456, Rec; 3,645' GIP, 40' drilling mud, BHT 116F.

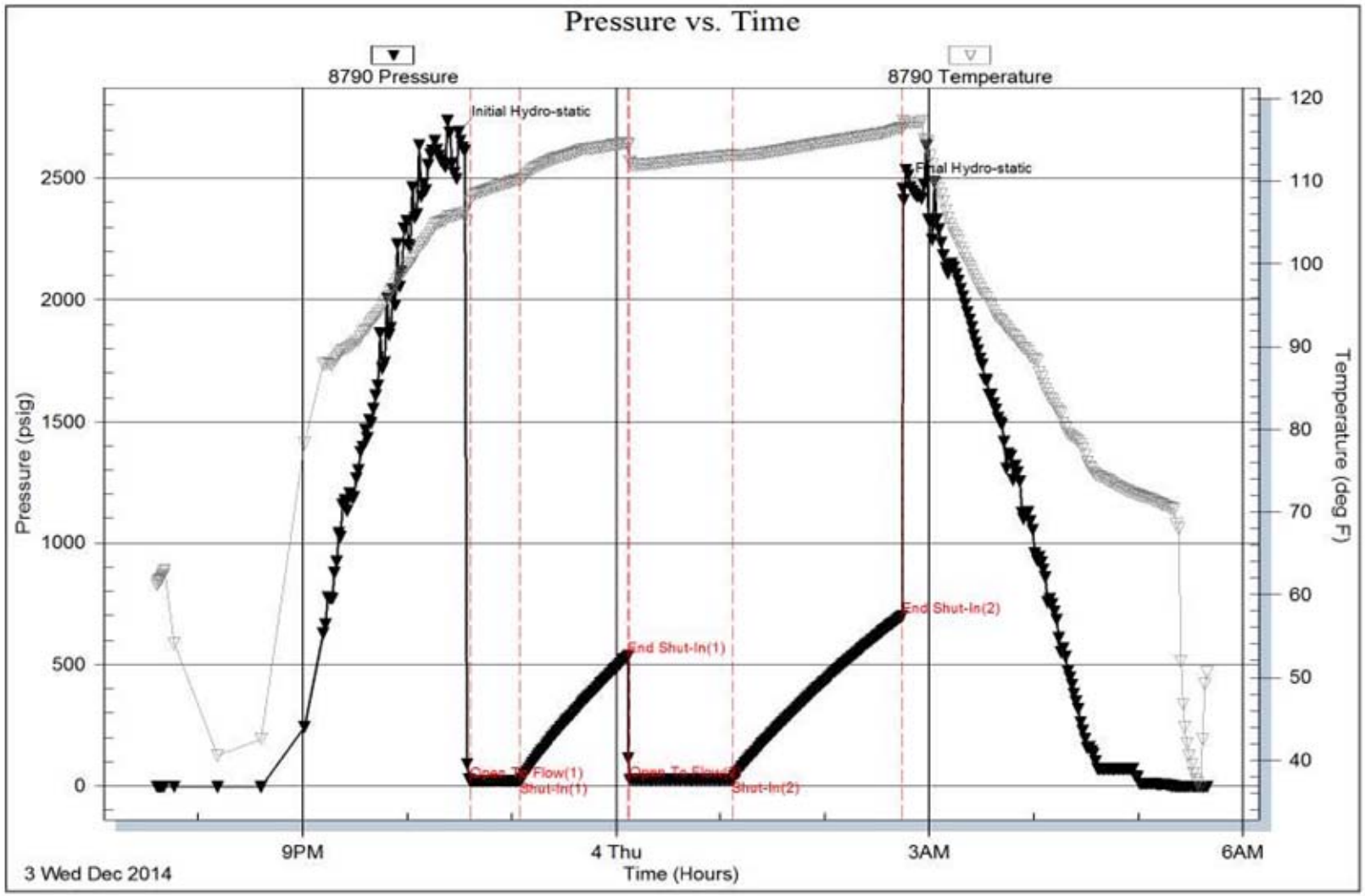
DST #3 Miss, 5,334' - 5,410' (76'), 30-60-60-90, IH 2665, IF 36-50 (BOB 7min, no gas to surface), ISI 1533 (no blov FF 55-82 (BOB immed, no gas to surface), FSI 1525 (no blow), Rec; 4,255' GIP, 60' GOCM (14%gas,6%oil,80%mud), 60' GWOCM (38%gas,25%oil,2%water,35%mud), BHT 114F

Serial #: 8790 **Inside** Vincent Oil Corp. Scheib 1-29 DST Test Number: 1



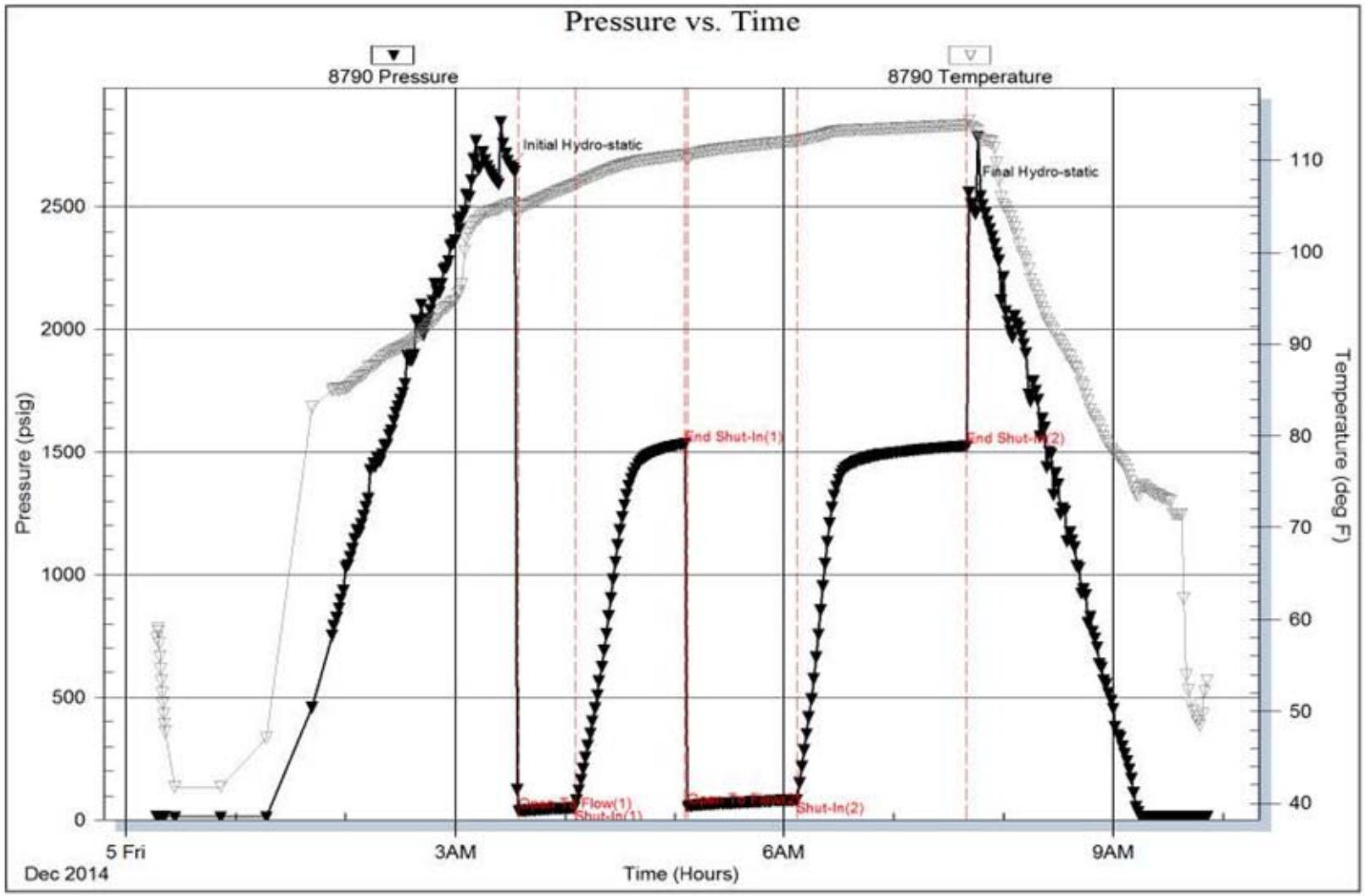
Trilobite Testing, Inc Ref. No: 59952 Printed: 2014.12.02 @ 16:39:22

Serial #: 8790 **Inside** Vincent Oil Corp. Scheib 1-29 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 59953 Printed: 2014.12.04 @ 08:26:10

Serial #: 8790 **Inside** Vincent Oil Corp. Scheib 1-29 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 59954 Printed: 2014.12.05 @ 10:32:06

WELL SITE OPERATIONS / JIM HALL SUPERVISOR
OPERATOR: Vincent Oil Corp.
WELL REFERENCE SHEET **SUBJECT WELL:** Scheib #1-29
SUBJECT WELL LOCATION: E/2 W/2 SW SE 29-T29S-R24W, Ford Co. Ks.
SUBJECT WELL DATUM: **2,586**

REF. WELL 'A' Vincent Dufford #2-32 NE/4 32-T29S-R24W **DATUM:** **2,583**

REF. WELL 'B' Vincent Dufford #1-32 NE/4 32-T29S-R24W **DATUM:** **2,584**

E-LOG TOPS

SUBJECT WELL:			**WELL 'A'**			**WELL 'B'**		
ZONE	**DEPTH**	**DATUM**	**DEPTH**	**DATUM**	**REF.**	**DEPTH**	**DATUM**	**REF.**
HEEB.	4,397	-1,811	4,398	-1,815	4	4,402	-1,818	7
Brown Ls.	4,532	-1,946	4,535	-1,952	6	4,542	-1,958	12
Lansing	4,542	-1,956	4,546	-1,963	7	4,560	-1,976	20
Stark Sh	4,894	-2,308	4,900	-2,317	9	4,907	-2,323	15
Hushp. Sh	4,946	-2,360	4,946	-2,363	3	4,953	-2,369	9
Marmaton	5,044	-2,458	5,051	-2,468	10	5,052	-2,468	10
PAWNEE	5,123	-2,537	5,128	-2,545	8	5,135	-2,551	14
Labette Sh	5,150	-2,564	5,155	-2,572	8	5,163	-2,579	15
CKE Sh	5,171	-2,585	5,176	-2,593	8	5,184	-2,600	15
2nd CKE	5,203	-2,617	5,208	-2,625	8	5,216	-2,632	15
B/Penn.	5,282	-2,696	5,288	-2,705	9	5,296	-2,712	16
SAND #1	5,294	-2,708	5,300	-2,717	9			
SAND #2						5,330	-2,746	
MISS.	5,328	-2,742	5,324	-2,741	-1	5,368	-2,784	42
1st Por.			5,352	-2,769		5,378	-2,794	
2nd Por			5,372	-2,789		5,392	-2,808	

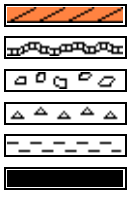
Qualifiers

CARBONATE CLASSIFICATION:

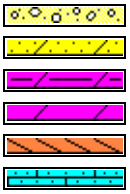
AFTER DUNHAM: GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. MUDSTONE; muddy carbonate rocks containing less than 10% grains. WACKESTONE; mud supported carbonate rocks with more than 10% grains. PACKSTONE; grain supported muddy carbonate rocks. GRAINSTONE; mud 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; (Fossils, Minerals, Shows, Porosity, etc.) Rare = less than 1% of sample total, Trace = less than 5% o sample total, Greater than 5% an estimate of total percentage.

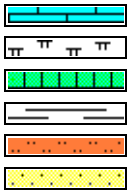
ROCK TYPES



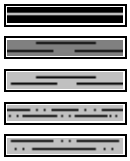
Anhy
Bent
Brec
Cht
Clyst
Coal



Congl
Sdy dolo
Shy dolo
Dol
Gyp
Sdy lmst



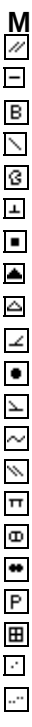
Lmst
Mrlst
Salt
Shale
Sltst
Ss



Black sh
Gry sh
Shale
Shysltst
Sltysh

ACCESSORIES

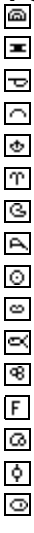
MINERAL



Anhy
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Ferrpel
Ferr
Glau
Gyp
Marl
Nodule
Phos
Pyr
Salt
Sandy
Silt

Chlorite
Dol
Sand
Slty

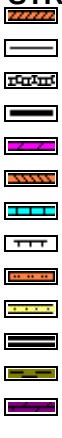
FOSSIL



Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra

Pelec
Pelloidal
Pisolite
Plant
Strom
Fuss
Oomoldic

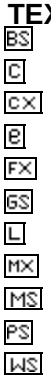
STRINGER



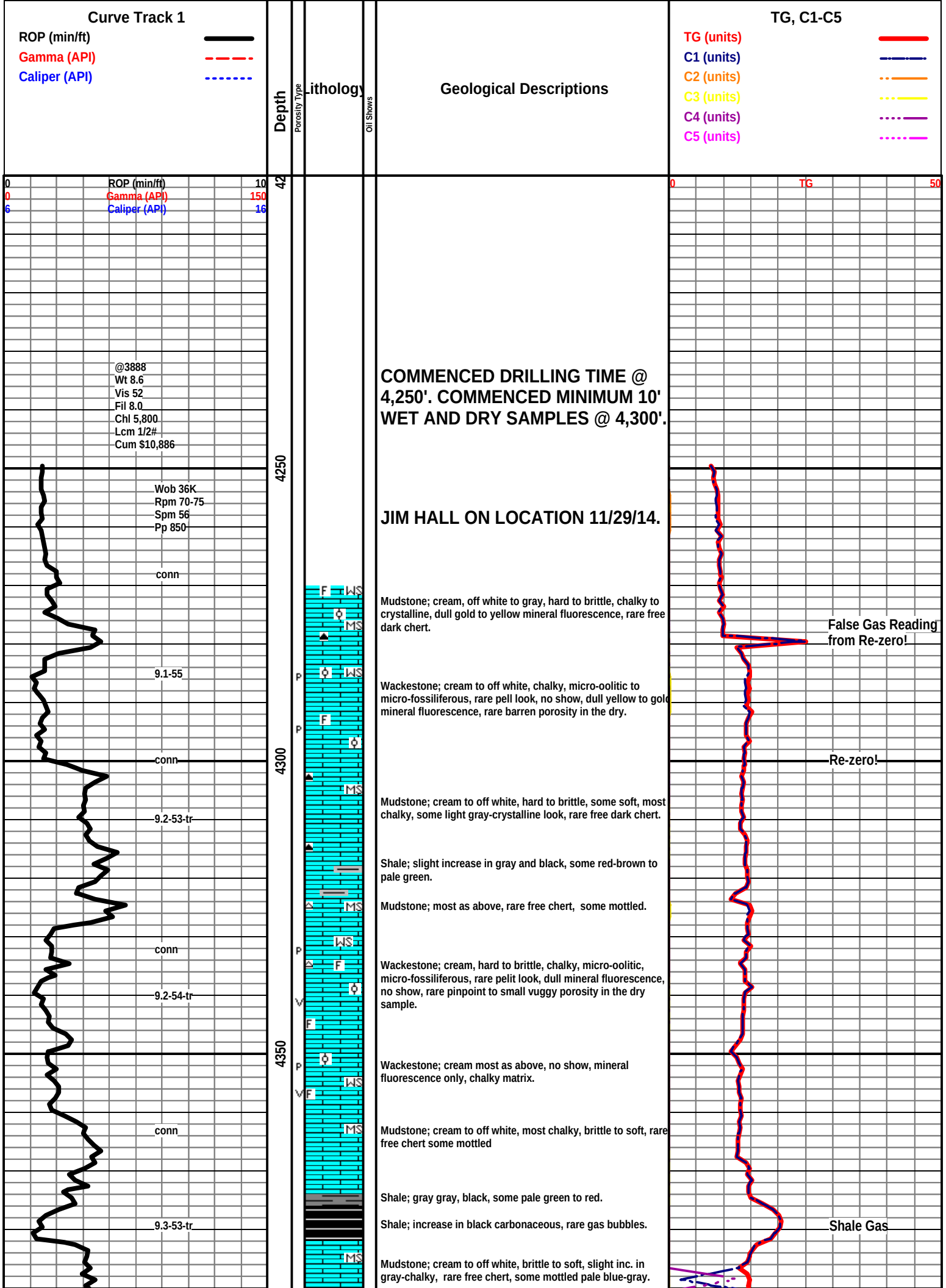
Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsh
Clystn
Dol

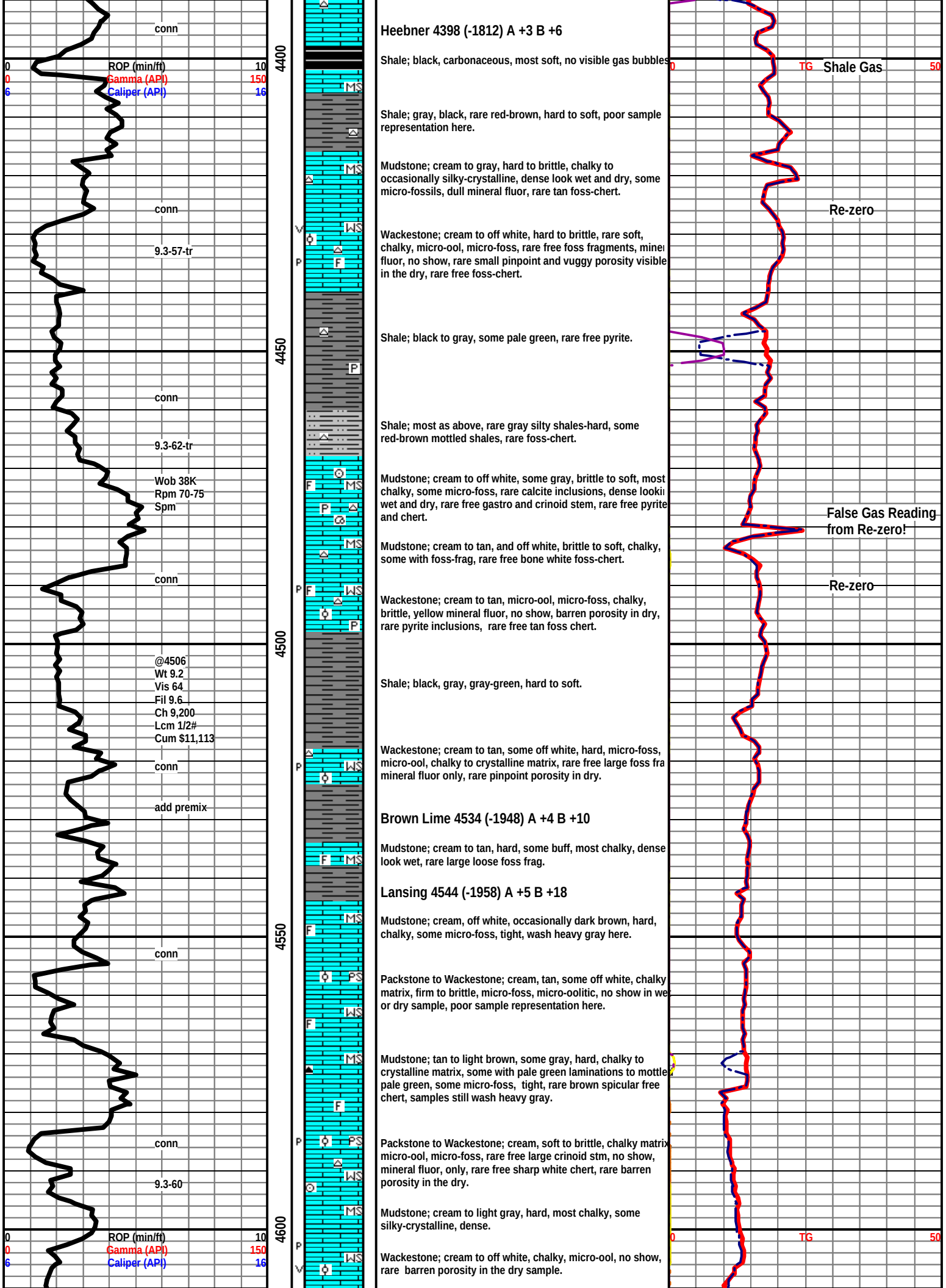
Grysh
Gryslt
Lms
Sandylms
Sh
Sltstn

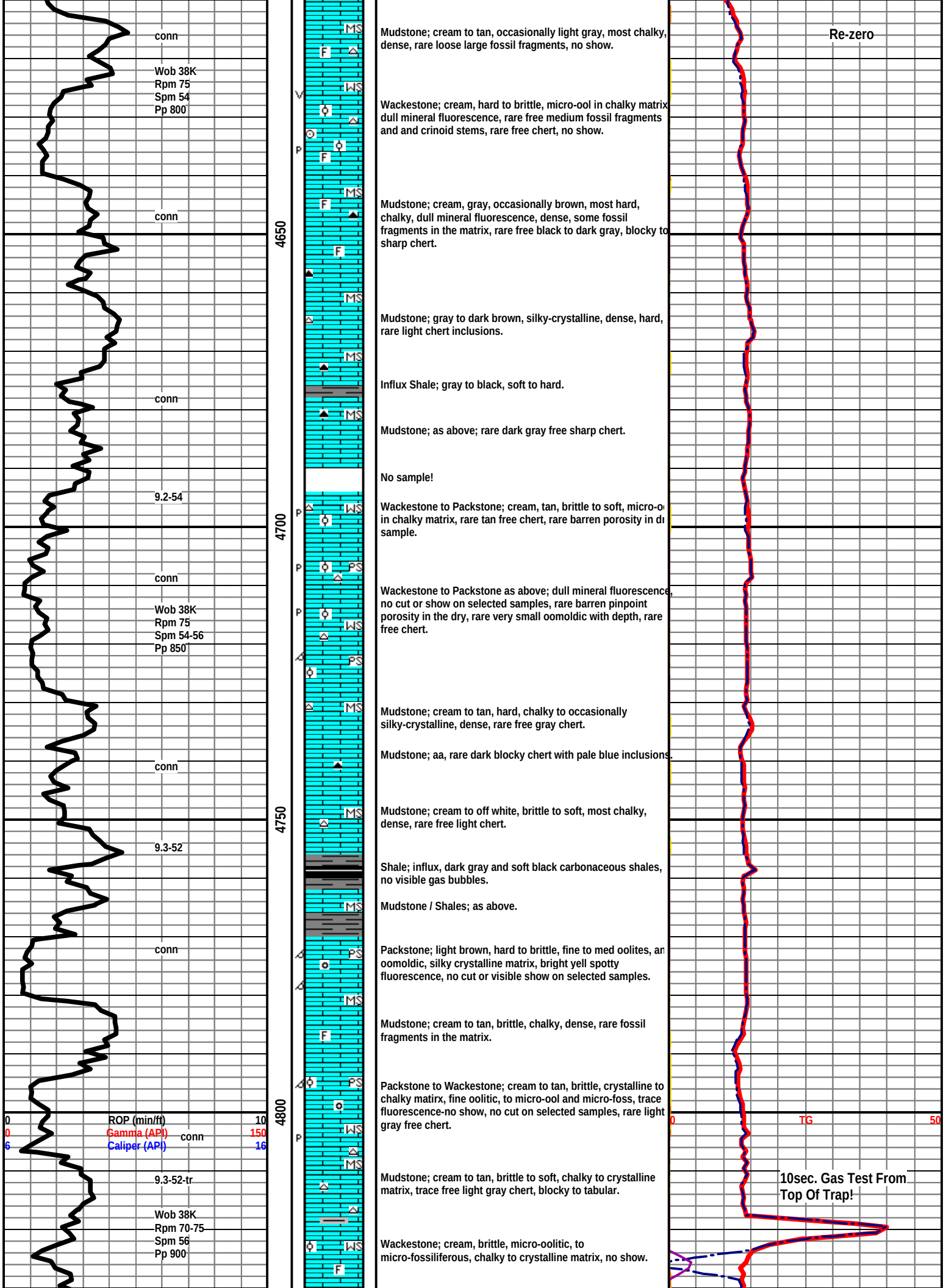
TEXTURE

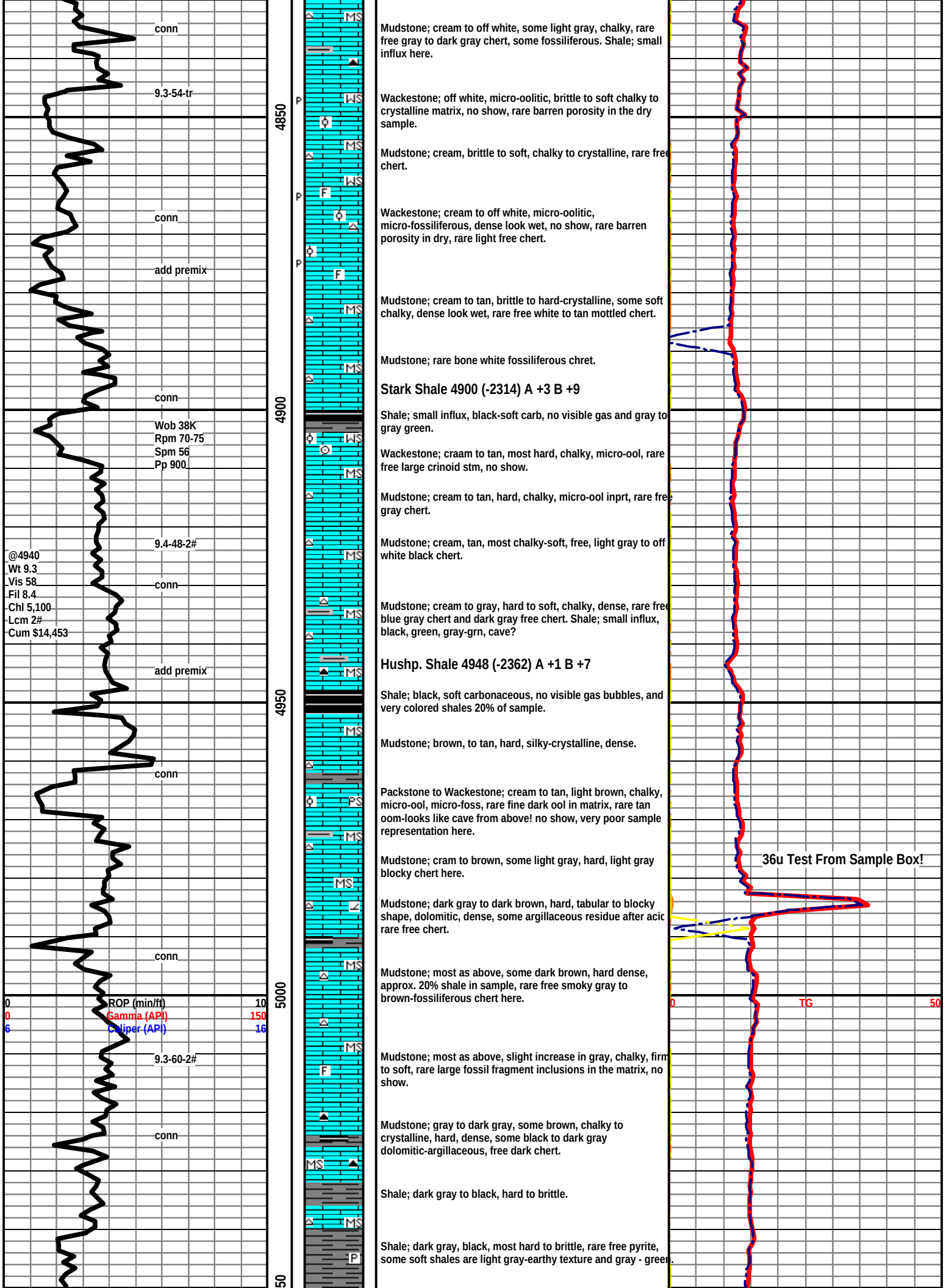


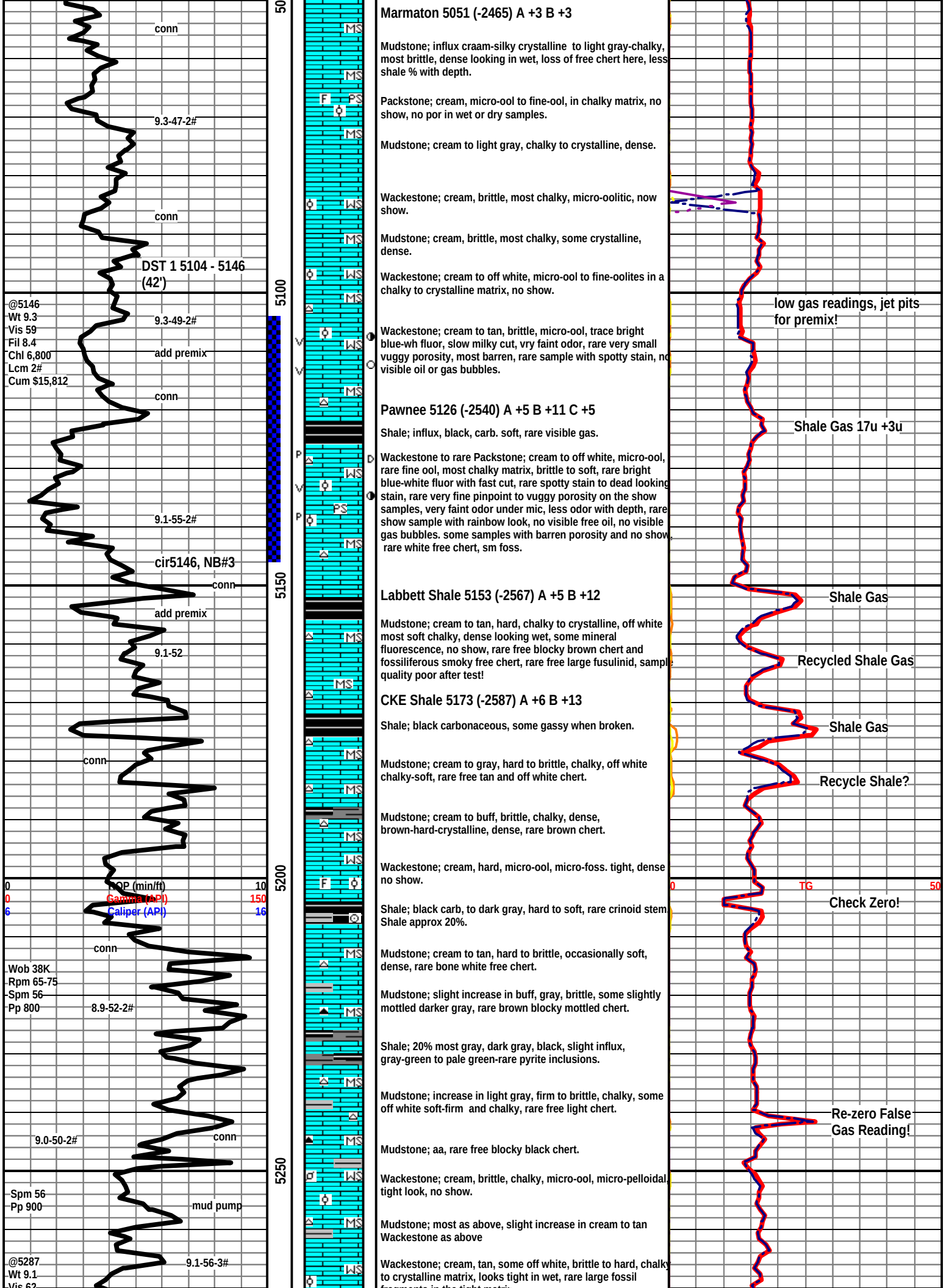
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

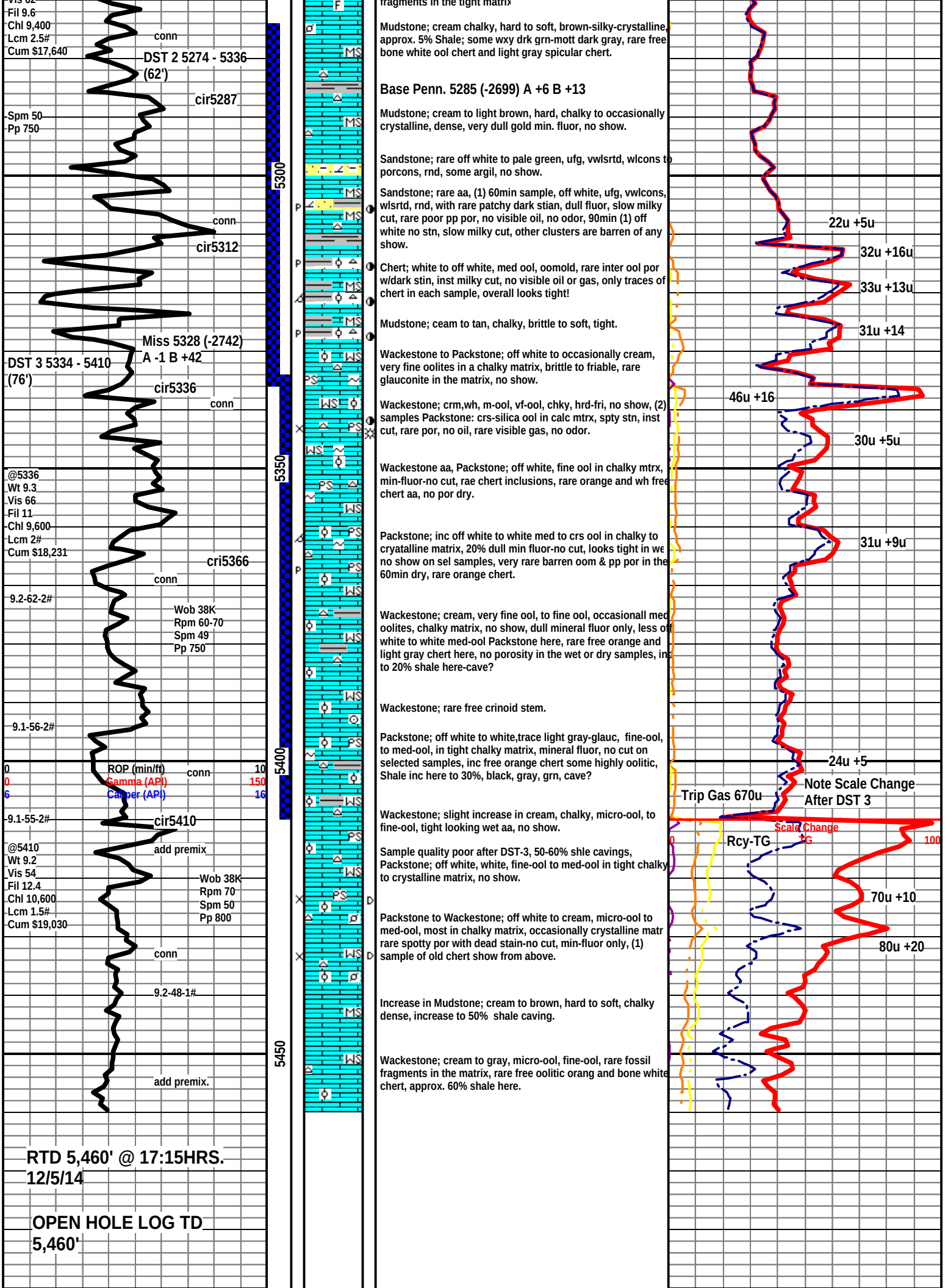

Curve Track 1
ROP (min/ft)
Gamma (API)
Caliper (API)
Depth
Porosity Type
Lithology
Oil Shows
Geological Descriptions
TG, C1-C5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Caliper (API) 16
0 TG 50
@3888
Wt 8.6
Vis 52
Fil 8.0
Chl 5,800
Lcm 1/2#
Cum $10,886
Wob 36K
Rpm 70-75
Spm 56
Pp 850
conn
9.1-55
conn
9.2-53-tr
conn
9.2-54-tr
conn
9.3-53-tr
4250
4300
4350
COMMENCED DRILLING TIME @ 4,250'. COMMENCED MINIMUM 10' WET AND DRY SAMPLES @ 4,300'.
JIM HALL ON LOCATION 11/29/14.
Mudstone; cream, off white to gray, hard to brittle, chalky to crystalline, dull gold to yellow mineral fluorescence, rare free dark chert.
Wackestone; cream to off white, chalky, micro-oolitic to micro-fossiliferous, rare pell look, no show, dull yellow to gold mineral fluorescence, rare barren porosity in the dry.
Mudstone; cream to off white, hard to brittle, some soft, most chalky, some light gray-crystalline look, rare free dark chert.
Shale; slight increase in gray and black, some red-brown to pale green.
Mudstone; most as above, rare free chert, some mottled.
Wackestone; cream, hard to brittle, chalky, micro-oolitic, micro-fossiliferous, rare pelit look, dull mineral fluorescence, no show, rare pinpoint to small vuggy porosity in the dry sample.
Wackestone; cream most as above, no show, mineral fluorescence only, chalky matrix.
Mudstone; cream to off white, most chalky, brittle to soft, rare free chert some mottled
Shale; gray gray, black, some pale green to red.
Shale; increase in black carbonaceous, rare gas bubbles.
Mudstone; cream to off white, brittle to soft, slight inc. in gray-chalky, rare free chert, some mottled pale blue-gray.
False Gas Reading from Re-zero!
Re-zero!
Shale Gas


conn
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Caliper (API) 16
4400
conn
9.3-57-tr
4450
conn
9.3-62-tr
Wob 38K
Rpm 70-75
Spm
conn
4500
@4506
Wt 9.2
Vis 64
Fil 9.6
Ch 9,200
Lcm 1/2#
Cum $11,113
conn
add premix
4550
conn
conn
9.3-60
4600
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Caliper (API) 16
Heebner 4398 (-1812) A +3 B +6
Shale; black, carbonaceous, most soft, no visible gas bubbles
Shale; gray, black, rare red-brown, hard to soft, poor sample representation here.
Mudstone; cream to gray, hard to brittle, chalky to occasionally silky-crystalline, dense look wet and dry, some micro-fossils, dull mineral fluor, rare tan foss-chert.
Wackestone; cream to off white, hard to brittle, rare soft, chalky, micro-ool, micro-foss, rare free foss fragments, miner fluor, no show, rare small pinpoint and vuggy porosity visible in the dry, rare free foss-chert.
Shale; black to gray, some pale green, rare free pyrite.
Shale; most as above, rare gray silty shales-hard, some red-brown mottled shales, rare foss-chert.
Mudstone; cream to off white, some gray, brittle to soft, most chalky, some micro-foss, rare calcite inclusions, dense looki wet and dry, rare free gastro and crinoid stem, rare free pyrite and chert.
Mudstone; cream to tan, and off white, brittle to soft, chalky, some with foss-frag, rare free bone white foss-chert.
Wackestone; cream to tan, micro-ool, micro-foss, chalky, brittle, yellow mineral fluor, no show, barren porosity in dry, rare pyrite inclusions, rare free tan foss chert.
Shale; black, gray, gray-green, hard to soft.
Wackestone; cream to tan, some off white, hard, micro-foss, micro-ool, chalky to crystalline matrix, rare free large foss fra mineral fluor only, rare pinpoint porosity in dry.
Brown Lime 4534 (-1948) A +4 B +10
Mudstone; cream to tan, hard, some buff, most chalky, dense look wet, rare large loose foss frag.
Lansing 4544 (-1958) A +5 B +18
Mudstone; cream, off white, occasionally dark brown, hard, chalky, some micro-foss, tight, wash heavy gray here.
Packstone to Wackestone; cream, tan, some off white, chalky matrix, firm to brittle, micro-foss, micro-oolitic, no show in we or dry sample, poor sample representation here.
Mudstone; tan to light brown, some gray, hard, chalky to crystalline matrix, some with pale green laminations to mottle pale green, some micro-foss, tight, rare brown spicular free chert, samples still wash heavy gray.
Packstone to Wackestone; cream, soft to brittle, chalky matrix micro-ool, micro-foss, rare free large crinoid stm, no show, mineral fluor, only, rare free sharp white chert, rare barren porosity in the dry.
Mudstone; cream to light gray, hard, most chalky, some silky-crystalline, dense.
Wackestone; cream to off white, chalky, micro-ool, no show, rare barren porosity in the dry sample.
0 TG 50
Shale Gas
Re-zero
False Gas Reading from Re-zero!
Re-zero
0 TG 50


conn
Wob 38K
Rpm 75
Spm 54
Pp 800
conn
conn
9.2-54
conn
Wob 38K
Rpm 75
Spm 54-56
Pp 850
conn
9.3-52
conn
conn
9.3-52-tr
Wob 38K
Rpm 70-75
Spm 56
Pp 900
4650
4700
4750
4800
Mudstone; cream to tan, occasionally light gray, most chalky, dense, rare loose large fossil fragments, no show.
Wackestone; cream, hard to brittle, micro-ool in chalky matrix dull mineral fluorescence, rare free medium fossil fragments and and crinoid stems, rare free chert, no show.
Mudstone; cream, gray, occasionally brown, most hard, chalky, dull mineral fluorescence, dense, some fossil fragments in the matrix, rare free black to dark gray, blocky to sharp chert.
Mudstone; gray to dark brown, silky-crystalline, dense, hard, rare light chert inclusions.
Influx Shale; gray to black, soft to hard.
Mudstone; as above; rare dark gray free sharp chert.
No sample!
Wackestone to Packstone; cream, tan, brittle to soft, micro-o in chalky matrix, rare tan free chert, rare barren porosity in dı sample.
Wackestone to Packstone as above; dull mineral fluorescence, no cut or show on selected samples, rare barren pinpoint porosity in the dry, rare very small oomoldic with depth, rare free chert.
Mudstone; cream to tan, hard, chalky to occasionally silky-crystalline, dense, rare free gray chert.
Mudstone; aa, rare dark blocky chert with pale blue inclusions.
Mudstone; cream to off white, brittle to soft, most chalky, dense, rare free light chert.
Shale; influx, dark gray and soft black carbonaceous shales, no visible gas bubbles.
Mudstone / Shales; as above.
Packstone; light brown, hard to brittle, fine to med oolites, an oomoldic, silky crystalline matrix, bright yell spotty fluorescence, no cut or visible show on selected samples.
Mudstone; cream to tan, brittle, chalky, dense, rare fossil fragments in the matrix.
Packstone to Wackestone; cream to tan, brittle, crystalline to chalky matirx, fine oolitic, to micro-ool and micro-foss, trace fluorescence-no show, no cut on selected samples, rare light gray free chert.
Mudstone; cream to tan, brittle to soft, chalky to crystalline matrix, trace free light gray chert, blocky to tabular.
Wackestone; cream, brittle, micro-oolitic, to micro-fossiliferous, chalky to crystalline matrix, no show.
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Caliper (API)
16
Re-zero
0
TG
50
10sec. Gas Test From Top Of Trap!


conn
9.3-54-tr
conn
add premix
conn
Wob 38K
Rpm 70-75
Spm 56
Pp 900
9.4-48-2#
@4940
Wt 9.3
Vis 58
Fil 8.4
Chl 5,100
Lcm 2#
Cum $14,453
conn
add premix
conn
conn
9.3-60-2#
conn
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Caliper (API)
16
4850
4900
4950
5000
5050
Mudstone; cream to off white, some light gray, chalky, rare free gray to dark gray chert, some fossiliferous. Shale; small influx here.
Wackestone; off white, micro-oolitic, brittle to soft chalky to crystalline matrix, no show, rare barren porosity in the dry sample.
Mudstone; cream, brittle to soft, chalky to crystalline, rare free chert.
Wackestone; cream to off white, micro-oolitic, micro-fossiliferous, dense look wet, no show, rare barren porosity in dry, rare light free chert.
Mudstone; cream to tan, brittle to hard-crystalline, some soft chalky, dense look wet, rare free white to tan mottled chert.
Mudstone; rare bone white fossiliferous chret.
Stark Shale 4900 (-2314) A +3 B +9
Shale; small influx, black-soft carb, no visible gas and gray to gray green.
Wackestone; craam to tan, most hard, chalky, micro-ool, rare free large crinoid stm, no show.
Mudstone; cream to tan, hard, chalky, micro-ool inprt, rare free gray chert.
Mudstone; cream, tan, most chalky-soft, free, light gray to off white black chert.
Mudstone; cream to gray, hard to soft, chalky, dense, rare free blue gray chert and dark gray free chert. Shale; small influx, black, green, gray-grn, cave?
Hushp. Shale 4948 (-2362) A +1 B +7
Shale; black, soft carbonaceous, no visible gas bubbles, and very colored shales 20% of sample.
Mudstone; brown, to tan, hard, silky-crystalline, dense.
Packstone to Wackestone; cream to tan, light brown, chalky, micro-ool, micro-foss, rare fine dark ool in matrix, rare tan oom-looks like cave from above! no show, very poor sample representation here.
Mudstone; cram to brown, some light gray, hard, light gray blocky chert here.
Mudstone; dark gray to dark brown, hard, tabular to blocky shape, dolomitic, dense, some argillaceous residue after acid rare free chert.
Mudstone; most as above, some dark brown, hard dense, approx. 20% shale in sample, rare free smoky gray to brown-fossiliferous chert here.
Mudstone; most as above, slight increase in gray, chalky, firm to soft, rare large fossil fragment inclusions in the matrix, no show.
Mudstone; gray to dark gray, some brown, chalky to crystalline, hard, dense, some black to dark gray dolomitic-argillaceous, free dark chert.
Shale; dark gray to black, hard to brittle.
Shale; dark gray, black, most hard to brittle, rare free pyrite, some soft shales are light gray-earthy texture and gray - green.
36u Test From Sample Box!
0
TG
50


conn
9.3-47-2#
conn
DST 1 5104 - 5146 (42')
@5146
Wt 9.3
Vis 59
Fil 8.4
Chl 6,800
Lcm 2#
Cum $15,812
9.3-49-2#
add premix
conn
9.1-55-2#
cir5146, NB#3
conn
add premix
9.1-52
conn
ROP (min/ft)
Gamma (API)
Caliper (API)
conn
Wob 38K
Rpm 65-75
Spm 56
Pp 800
8.9-52-2#
9.0-50-2#
conn
Spm 56
Pp 900
mud pump
@5287
Wt 9.1
Vis 62
9.1-56-3#
5000
5100
5150
5200
5250
Marmaton 5051 (-2465) A +3 B +3
Mudstone; influx craam-silky crystalline to light gray-chalky, most brittle, dense looking in wet, loss of free chert here, less shale % with depth.
Packstone; cream, micro-ool to fine-ool, in chalky matrix, no show, no por in wet or dry samples.
Mudstone; cream to light gray, chalky to crystalline, dense.
Wackestone; cream, brittle, most chalky, micro-oolitic, now show.
Mudstone; cream, brittle, most chalky, some crystalline, dense.
Wackestone; cream to off white, micro-ool to fine-oolites in a chalky to crystalline matrix, no show.
Wackestone; cream to tan, brittle, micro-ool, trace bright blue-wh fluor, slow milky cut, vry faint odor, rare very small vuggy porosity, most barren, rare sample with spotty stain, no visible oil or gas bubbles.
Pawnee 5126 (-2540) A +5 B +11 C +5
Shale; influx, black, carb. soft, rare visible gas.
Wackestone to rare Packstone; cream to off white, micro-ool, rare fine ool, most chalky matrix, brittle to soft, rare bright blue-white fluor with fast cut, rare spotty stain to dead looking stain, rare very fine pinpoint to vuggy porosity on the show samples, very faint odor under mic, less odor with depth, rare show sample with rainbow look, no visible free oil, no visible gas bubbles. some samples with barren porosity and no show, rare white free chert, sm foss.
Labbett Shale 5153 (-2567) A +5 B +12
Mudstone; cream to tan, hard, chalky to crystalline, off white most soft chalky, dense looking wet, some mineral fluorescence, no show, rare free blocky brown chert and fossiliferous smoky free chert, rare free large fusulinid, sample quality poor after test!
CKE Shale 5173 (-2587) A +6 B +13
Shale; black carbonaceous, some gassy when broken.
Mudstone; cream to gray, hard to brittle, chalky, off white chalky-soft, rare free tan and off white chert.
Mudstone; cream to buff, brittle, chalky, dense, brown-hard-crystalline, dense, rare brown chert.
Wackestone; cream, hard, micro-ool, micro-foss. tight, dense no show.
Shale; black carb, to dark gray, hard to soft, rare crinoid stem Shale approx 20%.
Mudstone; cream to tan, hard to brittle, occasionally soft, dense, rare bone white free chert.
Mudstone; slight increase in buff, gray, brittle, some slightly mottled darker gray, rare brown blocky mottled chert.
Shale; 20% most gray, dark gray, black, slight influx, gray-green to pale green-rare pyrite inclusions.
Mudstone; increase in light gray, firm to brittle, chalky, some off white soft-firm and chalky, rare free light chert.
Mudstone; aa, rare free blocky black chert.
Wackestone; cream, brittle, chalky, micro-ool, micro-pelloidal, tight look, no show.
Mudstone; most as above, slight increase in cream to tan Wackestone as above
Wackestone; cream, tan, some off white, brittle to hard, chalky to crystalline matrix, looks tight in wet, rare large fossil
low gas readings, jet pits for premix!
Shale Gas 17u +3u
Shale Gas
Recycled Shale Gas
Shale Gas
Recycle Shale?
0
TG
50
Check Zero!
Re-zero False Gas Reading!


Fil 9.6
Chl 9,400
Lcm 2.5#
Cum $17,640
conn
DST 2 5274 - 5336
(62')
cir5287
Spm 50
Pp 750
5300
conn
cir5312
Miss 5328 (-2742)
A -1 B +42
DST 3 5334 - 5410
(76')
cir5336
conn
@5336
Wt 9.3
Vis 66
Fil 11
Chl 9,600
Lcm 2#
Cum $18,231
cri5366
conn
9.2-62-2#
Wob 38K
Rpm 60-70
Spm 49
Pp 750
5350
9.1-56-2#
0
ROP (min/ft)
conn
10
0
Gamma (API)
150
6
Caliper (API)
16
5400
9.1-55-2#
cir5410
@5410
Wt 9.2
Vis 54
Fil 12.4
Chl 10,600
Lcm 1.5#
Cum $19,030
add premix
Wob 38K
Rpm 70
Spm 50
Pp 800
conn
9.2-48-1#
5450
add premix.
RTD 5,460' @ 17:15HRS.
12/5/14
OPEN HOLE LOG TD
5,460'
fragments in the tight matrix
Mudstone; cream chalky, hard to soft, brown-silky-crystalline, approx. 5% Shale; some wxy drk grn-mott dark gray, rare free bone white ool chert and light gray spicular chert.
Base Penn. 5285 (-2699) A +6 B +13
Mudstone; cream to light brown, hard, chalky to occasionally crystalline, dense, very dull gold min. fluor, no show.
Sandstone; rare off white to pale green, ufg, vwlsrtd, wlcons to porcons, rnd, some argil, no show.
Sandstone; rare aa, (1) 60min sample, off white, ufg, vwlcons, wlsrtd, rnd, with rare patchy dark stian, dull fluor, slow milky cut, rare poor pp por, no visible oil, no odor, 90min (1) off white no stn, slow milky cut, other clusters are barren of any show.
Chert; white to off white, med ool, oomold, rare inter ool por w/dark stin, inst milky cut, no visible oil or gas, only traces of chert in each sample, overall looks tight!
Mudstone; ceam to tan, chalky, brittle to soft, tight.
Wackestone to Packstone; off white to occasionally cream, very fine oolites in a chalky matrix, brittle to friable, rare glauconite in the matrix, no show.
Wackestone; crm,wh, m-ool, vf-ool, chky, hrd-fri, no show, (2) samples Packstone: crs-silica ool in calc mtrx, spty stn, inst cut, rare por, no oil, rare visible gas, no odor.
Wackestone aa, Packstone; off white, fine ool in chalky mtrx, min-fluor-no cut, rae chert inclusions, rare orange and wh free chert aa, no por dry.
Packstone; inc off white to white med to crs ool in chalky to cryatalline matrix, 20% dull min fluor-no cut, looks tight in we no show on sel samples, very rare barren oom & pp por in the 60min dry, rare orange chert.
Wackestone; cream, very fine ool, to fine ool, occasionall med oolites, chalky matrix, no show, dull mineral fluor only, less off white to white med-ool Packstone here, rare free orange and light gray chert here, no porosity in the wet or dry samples, in to 20% shale here-cave?
Wackestone; rare free crinoid stem.
Packstone; off white to white,trace light gray-glauc, fine-ool, to med-ool, in tight chalky matrix, mineral fluor, no cut on selected samples, inc free orange chert some highly oolitic, Shale inc here to 30%, black, gray, grn, cave?
Wackestone; slight increase in cream, chalky, micro-ool, to fine-ool, tight looking wet aa, no show.
Sample quality poor after DST-3, 50-60% shle cavings, Packstone; off white, white, fine-ool to med-ool in tight chalky to crystalline matrix, no show.
Packstone to Wackestone; off white to cream, micro-ool to med-ool, most in chalky matrix, occasionally crystalline matr rare spotty por with dead stain-no cut, min-fluor only, (1) sample of old chert show from above.
Increase in Mudstone; cream to brown, hard to soft, chalky dense, increase to 50% shale caving.
Wackestone; cream to gray, micro-ool, fine-ool, rare fossil fragments in the matrix, rare free oolitic orang and bone white chert, approx. 60% shale here.
22u +5u
32u +16u
33u +13u
31u +14
46u +16
30u +5u
31u +9u
24u +5
Trip Gas 670u
Note Scale Change
After DST 3
Scale Change
TG
0
Rcy-TG
100
70u +10
80u +20