Scale 1:240 Imperial

Well Name:	Viola #1-35		
Surface Location:	720' FNL _1920' FWL Sec 35 - 21S- 16W		
Bottom Location:			
API:	15-145-21761-00-00		
License Number:			
Spud Date:	4/24/2014	Time:	7:00 PM
Region:	Pawnee County		
Drilling Completed:	4/29/2014	Time:	9:30 AM
Surface Coordinates:	Y = 554027 & X = 1841347		
Bottom Hole Coordinates:			
Ground Elevation:	1977.00ft		
K.B. Elevation:	1990.00ft		
Logged Interval:	3200.00ft	To:	4050.00ft
Total Depth:	4050.00ft		
Formation:	Penn Sand		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

OPERATOR

Company:	Shelby Resources, LLC		
Address:	445 Union Blvd, Suite 208 Lakewood, CO 80228		
Contact Geologist:	Janine Sturdavant		
Contact Phone Nbr:	303-907-2209 / 720-274-4682		
Well Name:	Viola #1-35		
Location:	720' FNL _1920' FWL Sec 35 - 21S- 16W	API:	15-145-21761-00-00
Pool:		Field:	Wildcat
State:	Kansas	Country:	USA

LOGGED BY

Company:	Shelby Resources, LLC		
Address:	445 UNION BLVD. Suite 208 LAKEWOOD, CO. 80228		
Phone Nbr:	203-671-6034		
Logged By:	Geologist	Name:	Jeremy Schwartz

NOTES

The Shelby Resources, LLC Viola #1-35 was drilled to a total depth of 4050', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

2 DST's were conducted in the Penn. Conglomerate and Viola zones. The DST reports can be found at the top of this log.

Due to the DST results, sample shows, gas kicks, and log analysis it was determined by all parties involved to plug and abandon the well. The dry samples were saved and will be available for furthur review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,
Jeremy Schwartz
Geologist

SURFACE CO-ORDINATES

Well Type:	Vertical

Longitude: Latitude:
N/S Co-ord: Y = 554027
E/W Co-ord: X = 1841347

CONTRACTOR

Contractor: Sterling Drilling Co
Rig #: 5
Rig Type: mud rotary
Spud Date: 4/24/2014 Time: 7:00 PM
TD Date: 4/29/2014 Time: 9:30 AM
Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1990.00ft Ground Elevation: 1977.00ft
K.B. to Ground: 13.00ft

DATE	DEPTH	ACTIVITY
Sunday, April 27, 2014	3150'	Geologist Jeremy Schwartz on location @ 0530hrs, DRLG ahead through
		Heebner, Toronto, Douglas Shale, Brown Lime, LKC, CFS @ 3567', Resume DRLG
	3766'	through Stark Shale, B/KC, CFS @ 3766', Bit Trip (swap PDC for Button bit),
Monday, April 28, 2014	3770'	DRLG ahead through Marmaton, Conglomerate, CFS @ 3812',
	3812'	Conduct DST #1 in Conglomerate, Successful Test, DRLG ahead through cong.,
	3825'	CFS @ 3825', Resume DRLG, CFS @ 3849', Resume DRLG, CFS @ 3893', Resume DRLG,
Tuesday, April 29, 2014	3935'	CFS @ 3935', Resume DRLG, CFS @ 3943', Resume DRLG,
	3957'	DRLG ahead through Arbuckle, CFS @ 3957', Resume DRLG ahead to TD,
	4050'	TD of 4050' reached @ 0930hrs, CTCH I hour, trip out of hole for logs
		Conduct Logging Operations, Logging Operations complete @ 1615hrs
		Straddle Test Across Viola formation, blow died, pull test
Wednesday, April 30, 2014	4050'	Geologist Jeremy Schwartz off location @ 0130hrs

CLIENT:	SHELBY RESOURCES, LLC
WELL NAME:	VIOLA #1-35
LEGAL:	720' FNL & 1920' FWL
COUNTY:	PAWNEE COUNTY, KS
API :	15-145-21761-00-00
DRLG CONTRACTOR:	STERLING DRILLING CO.
RIG #:	5
DOGHOUSE #:	620-388-5433
TOOLPUSHER:	ALAN LOFTIS
CELL #:	620-388-2736

	VIOLA #1-35 NE-SW-NE-NW KB 1990				CAPTIVA II FENWICK #1-35 NW-SW-NE-NE KB 1988						CAPTIVA II P-W UNIT #1-35 SE-SW-SE-NW 35-21S-16W KB 1991					
	LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG CORR.		SMPL. CORR.				LOG CORR.		SMPL. CORR.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM					DEPTH	DATUM				
ANHYDRITE TOP	984	1006	984	1006	974	1014	-	8	-	8	984	1007	-	1	-	1
BASE	1010	980	1009	981	1000	988	-	8	-	7	1000	991	-	11	-	10
HEEBNER SHALE	3401	-1411	3402	-1412	3395	-1407	-	4	-	5	3400	-1409	-	2	-	3
TORONTO	3418	-1428	3419	-1429	3418	-1430	+	2	+	1	3419	-1428	+	0	-	1
DOUGLAS SHALE	3436	-1446	3438	-1448	3430	-1442	-	4	-	6	3437	-1446	+	0	-	2
BROWN LIME	3503	-1513	3504	-1514	3496	-1508	-	5	-	6	3504	-1513	+	0	-	1
LKC	3511	-1521	3512	-1522	3504	-1516	-	5	-	6	3514	-1523	+	2	+	1
STARK SHALE	3701	-1711	3703	-1713	3696	-1708	-	3	-	5	3701	-1710	-	1	-	3
BKC	3747	-1757	3746	-1756	3742	-1754	-	3	-	2	3752	-1761	+	4	+	5
MARMATON	3768	-1778	3768	-1778	3762	-1774	-	4	-	4	3770	-1779	+	1	+	1
CONGLOMERATE	3790	-1800	3790	-1800	3785	-1797	-	3	-	3	3806	-1815	+	15	+	15
CONG. SAND/CHRT	3802	-1812	3802	-1812	3798	-1810	-	2	-	2						
SIMPSON SHALE	3882	-1892	3876	-1886	3872	-1884	-	8	-	2	3884	-1893	+	1	+	7
SIMPSON SAND	3890	-1900	3886	-1896	3888	-1900	+	0	+	4	3892	-1901	+	1	+	5
ARBUCKLE	3947	-1957	3950	-1960	3926	-1938	-	19	-	22	3947	-1956	-	1	-	4
RTD			4050	-2060												

KB																
LTD	4049	-2059			4026	-2038	-	21			4038	-2047	-	12		

PROGNOSIS		
ANHYDRITE TOP	980	1010
HEEBNER SHALE	3402	-1412
LKC	3511	-1521
Penn Cong	3797	-1807
Simp Sand	3895	-1905
ARBUCKLE	3933	-1943
TD	4060	-2060

TESTED

DST #1 (3535-3563) LKC "B-D"
15-30-45-60
Weak Surface Blow
No BB
No Blow, Flushed Tool, good flush bubbles, gained weak surface blow
No BB
5' MUD
SIP: 1323-1310
INVALID TEST
(Tool had cuttings stuck inside and was plugged from a previous test)

DST #2 (3774-3819) Conglomerate
10-45-45-90
Strong Blow BOB 30Sec
BB BOB, GTS 5MIN
Strong Blow BOB 30SEC
Oil to surface 5MIN into shut-in
2772' CGO
SIP: 1013-1019

DST #3 (3857-3897) Simp Sand
15-45-45-90
Fair Blow built to 1.5IN
No BB
Fair Blow built to 4IN
No BB
30' OCM (80%M, 20%O)
SIP: 718-559

DST #4 (3924-3931) Arbuckle
15-45-45-90
Weak blow built to 2IN
No BB
No blow, flushed tool and gained good blow BOB
BB built to 2IN
2709' CO
SIP: 1352-1332

TESTED

DST #1 (3350-3375) LKC "B-D"
10-45-45-90
IF: Fair Blow Built to 3IN
No BB
FF: Fair Blow Built to 3.5IN
No BB
30' Gassy Mud w/TR Oil
SIP: 767-1051

DST #2 (3785-3865) Conglomerate
15-45-20
Weak Blow Built to 3/4IN
No BB
Weak Surface Blow Died 20MIN
Pulled Test
10' M
SIP: 118-77

DST #3 (3875-3915) Simp Sand
15-45-45-90
Strong Blow BOB 1MIN 50SEC
Good BB Built to 11IN
Strong Blow BOB 4MIN
BB BOB/GTS 60MIN
945' CGO
SIP: 1227-1149

DST #4 (3915-3958) Arbuckle
15-45-30-90
Strong Blow BOB 1MIN 20SEC
No BB
Strong Blow BOB 2MIN 10SEC
No BB
1953' W
SIP: 1300-1329

SUPERIOR ENTERPRISES LLC TESTERS

DRILL STEM TEST REPORT

Shelby Resource LLC

2717 Canal Blvd.
Hays Kasnsas 67601

ATTN: Jeremy Schwartz

35-21s-16w-Pawnee

Viola 1-35

Job Ticket: 18316 **DST#: 1**

Test Start: 2014.04.28 @ 05:22:00

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:50:00
Time Test Ended: 12:29:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-55

Interval: 3784.00 ft (KB) To 3812.00 ft (KB) (TVD)
Total Depth: 3812.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1990.00 ft (KB)
1977.00 ft (CF)
KB to GR/CF: 13.00 ft

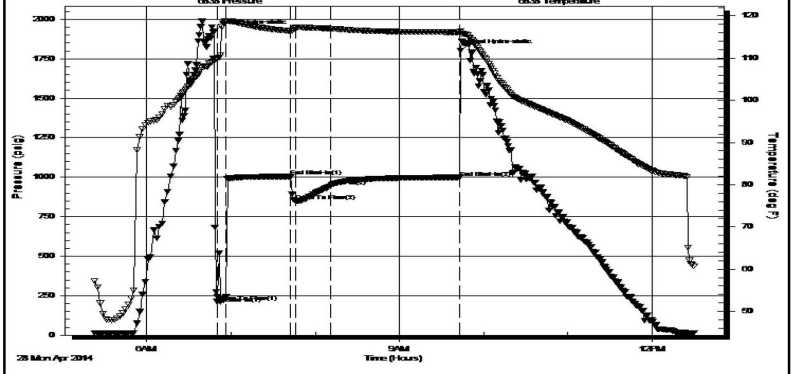
Serial #: 6838
Press@RunDepth: 943.16 psig @ ft (KB)
Start Date: 2014.04.28 End Date: 2014.04.28
Start Time: 05:23:00 End Time: 12:29:30

Capacity: 5000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2014.04.28 @ 06:48:00
Time Off Btm: 2014.04.28 @ 09:43:30

TEST COMMENT: 1st Open 10 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1.5 minutes.
1st Shut in 45 minutes No blow back.
2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1.5 minutes.
2nd Shut in 90 minutes Yes blow back

Pressure vs. Time

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.96	109.92	Initial Hydro-static
2	212.68	109.83	Open To Flow (1)
9	245.73	118.83	Shut-In(1)
55	1004.11	116.42	End Shut-In(1)
58	849.88	117.11	Open To Flow (2)
83	943.16	116.99	Shut-In(2)
175	998.90	116.13	End Shut-In(2)
176	1803.81	116.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
732.00	Gas cut muddy oil	6.88
0.00	Oil 40% Gas 10% Mud 40% Water 10%	0.00
915.00	Water 100%	12.84
0.00	1510 Gas in pipe.	0.00
0.00	Chlorides 41,000 .3ohms@55degrees	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Superior Testers Enterprises LLC Ref. No: 18316 Printed: 2014.04.28 @ 14:22:59

DRILL STEM TEST REPORT

Shelby Resource LLC

2717 Canal Blvd.
Hays Kasnsas 67601

ATTN: Jeremy Schwartz

35-21s-16w-Pawnee

Viola 1-35

Job Ticket: 18317 **DST#: 2**

Test Start: 2014.04.29 @ 06:40:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:58:30
Time Test Ended: 12:26:00

Test Type: Conventional Straddle (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-55

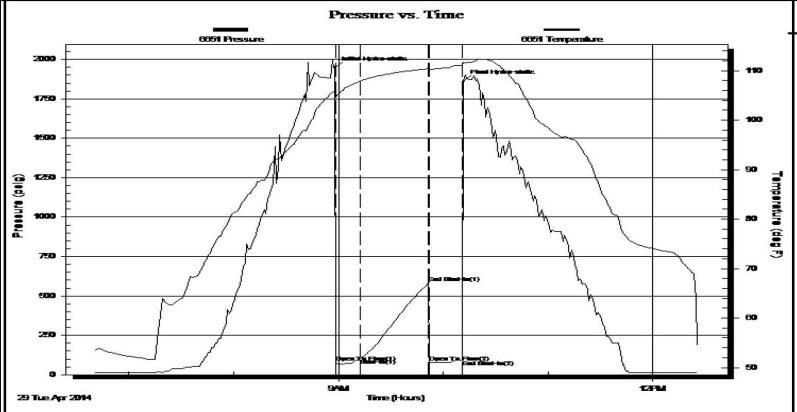
Interval: 3816.00 ft (KB) To 3880.00 ft (KB) (TVD)
Total Depth: 4050.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1990.00 ft (KB)
1977.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6651 **Outside**
Press@RunDepth: 103.98 psig @ 3818.16 ft (KB)
Start Date: 2014.04.29 End Date: 2014.04.29
Start Time: 06:40:00 End Time: 12:26:00

Capacity: 5000.00 psig
Last Calib.: 2014.04.30
Time On Btm: 2014.04.29 @ 08:58:00
Time Off Btm: 2014.04.29 @ 10:11:30

TEST COMMENT: 1st Open 10 minutes Weak blow built to 1/2 inches into a 5 gallon bucket of water.
1st Shut in 45 minutes No blow back
2nd Open 20 minutes Weak surface blow died off after 4 minutes Flushed tool weak blow that died off.
2nd Shut in N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.96	105.87	Initial Hydro-static
1	79.65	104.54	Open To Flow (1)
15	103.98	107.89	Shut-In(1)
54	583.06	110.38	End Shut-In(1)
54	76.61	110.17	Open To Flow (2)
73	90.95	111.02	End Shut-In(2)
74	1861.59	111.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
12.00	Mud 100%	0.06

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

ROCK TYPES

Cht, Congl, Dolprim, Lmst fw<7, shale, grn, shale, gry, Carbon Sh, shale, red, Ss

ACCESSORIES

FOSSIL
- Bioclastic or Fragmental
- F Fossils < 20%

STRINGER
- Chert
- Sandstone
- Siltstone
- Shale
- red shale

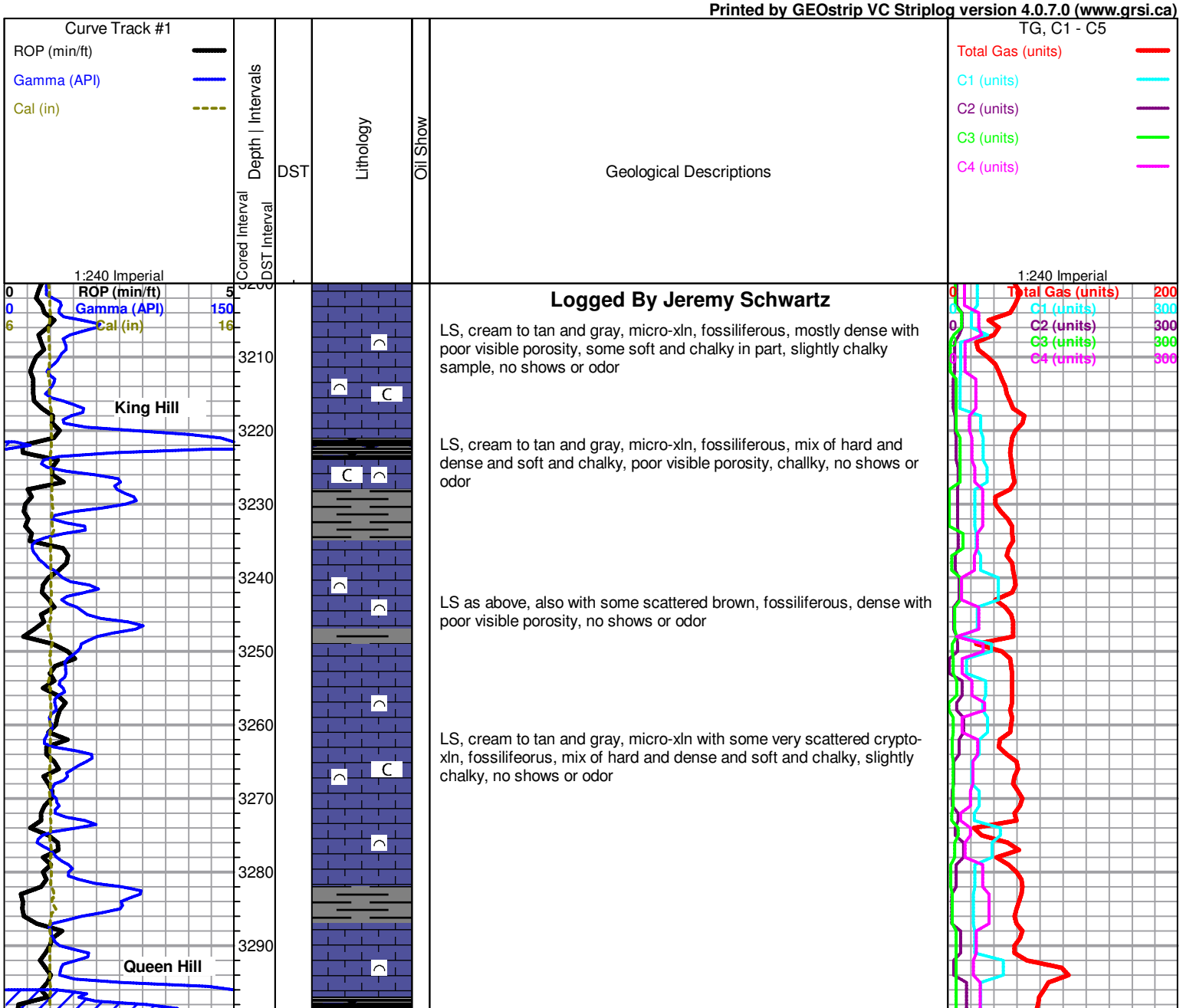
TEXTURE
- C Chalky

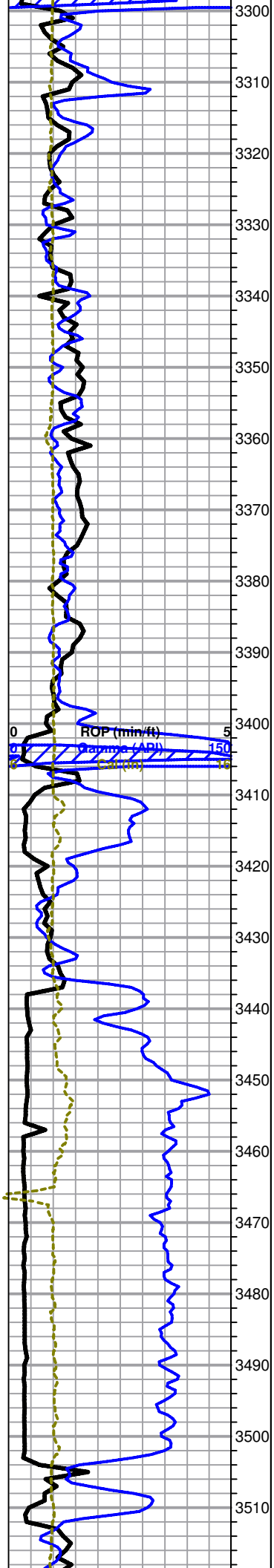
OTHER SYMBOLS

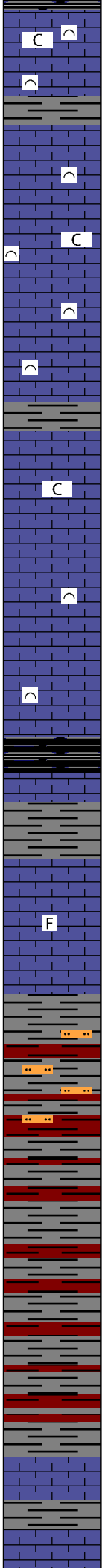
Oil Show
- Good Show
- Fair Show
- Poor show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- Gas

DST
- DST Int
- DST alt

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







LS, cream to tan with some gray, micro-xln, fossilifeorus, mostly dense with poor visible porosity, some soft and chalky, slightly chalky, no shows or odor

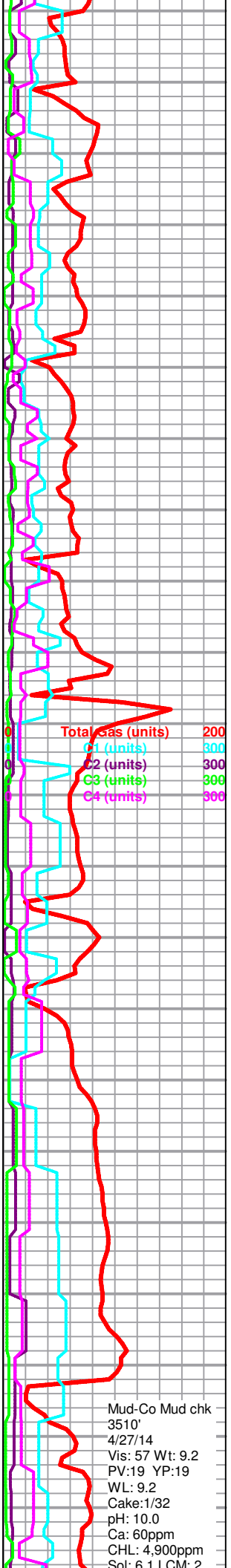
LS, cream to tan with some gray, micro-crypto xln, fossiliferous, mix of hard and dense and soft and chalky, no shows or odor

LS, cream to tan with some scattered gray and brown, micro-crypto xln, mostly hard and dense with poor visible porosity, slightly chalky, no shows or odor

LS, mostly tan to cream, micro-crypto xln, fossiliferous, mostly soft and chalky in part, some dense with poor visible porosity, no shows or odor

Heebner 3402 (-1412)

Shale, black carbonaceous



Toronto 3419 (-1429)

LS, cream to white with some scattered gray, micro-crypto xln, some slightly fossiliferous, mostly dense with poor visible porosity, no shows or odor

Douglas Shale 3438 (-1448)

Shale, gray and red, some soft and waxy, some silty

Shale, gray and red, mostly soft and waxy

Shale as above

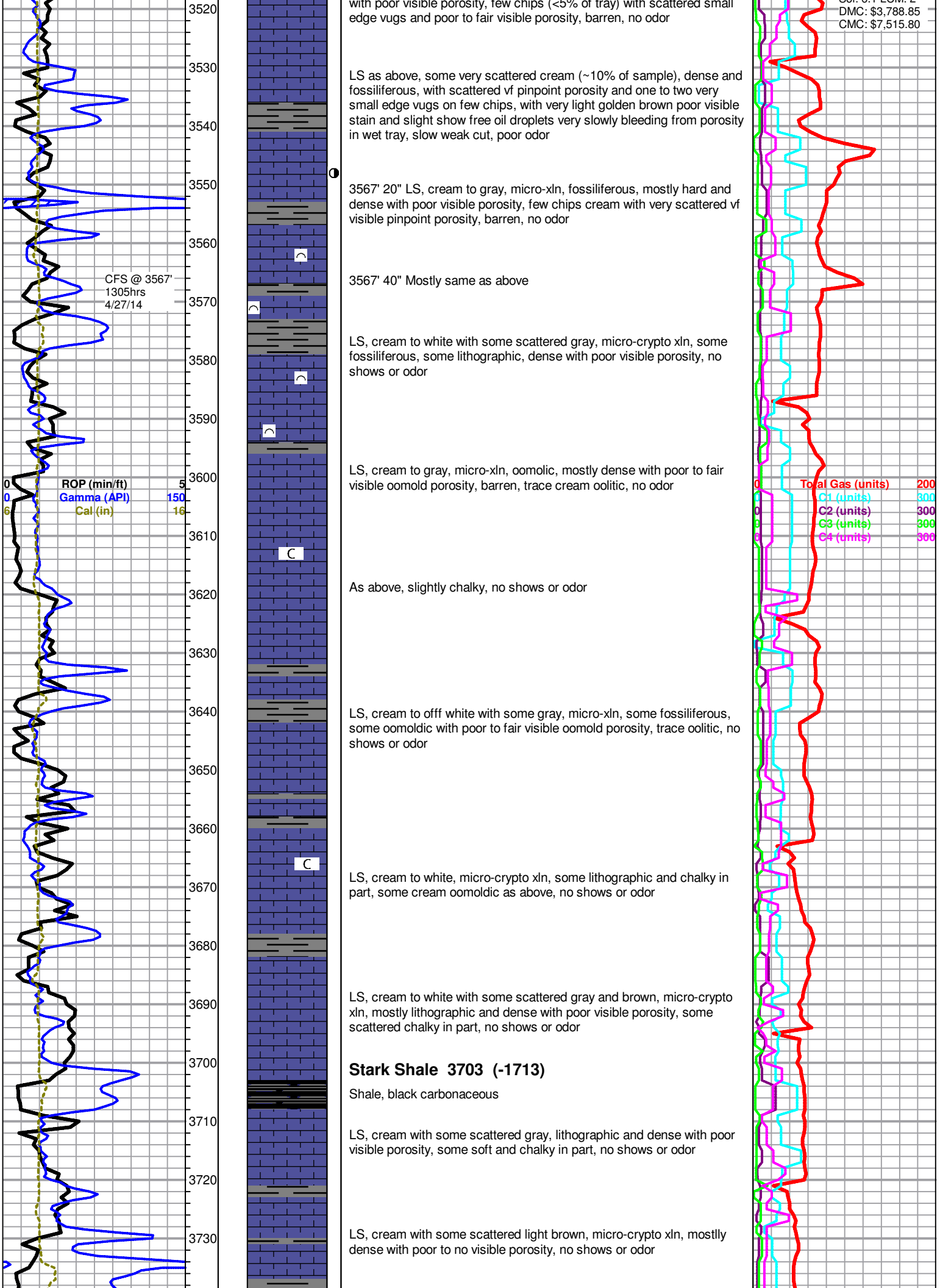
Brown Lime 3504 (-1514)

LS, light brown to brown, micro-crypto xln, some slightly fossilifeorus, hard and dense with no visible porosity, no shows or odor

LKC 3512 (-1522)

LS, cream to off-white with some gray, micro-crypto xln, mostly dense

Mud-Co Mud chk
3510'
4/27/14
Vis: 57 Wt: 9.2
PV:19 YP:19
WL: 9.2
Cake:1/32
pH: 10.0
Ca: 60ppm
CHL: 4,900ppm
Sol: 6.1 LCM: 2



with poor visible porosity, few chips (<5% of tray) with scattered small edge vugs and poor to fair visible porosity, barren, no odor

LS as above, some very scattered cream (~10% of sample), dense and fossiliferous, with scattered vf pinpoint porosity and one to two very small edge vugs on few chips, with very light golden brown poor visible stain and slight show free oil droplets very slowly bleeding from porosity in wet tray, slow weak cut, poor odor

3567' 20" LS, cream to gray, micro-xln, fossiliferous, mostly hard and dense with poor visible porosity, few chips cream with very scattered vf visible pinpoint porosity, barren, no odor

3567' 40" Mostly same as above

LS, cream to white with some scattered gray, micro-crypto xln, some fossiliferous, some lithographic, dense with poor visible porosity, no shows or odor

LS, cream to gray, micro-xln, oomolic, mostly dense with poor to fair visible oomold porosity, barren, trace cream oolitic, no odor

As above, slightly chalky, no shows or odor

LS, cream to offf white with some gray, micro-xln, some fossiliferous, some oomoldic with poor to fair visible oomold porosity, trace oolitic, no shows or odor

LS, cream to white, micro-crypto xln, some lithographic and chalky in part, some cream oomoldic as above, no shows or odor

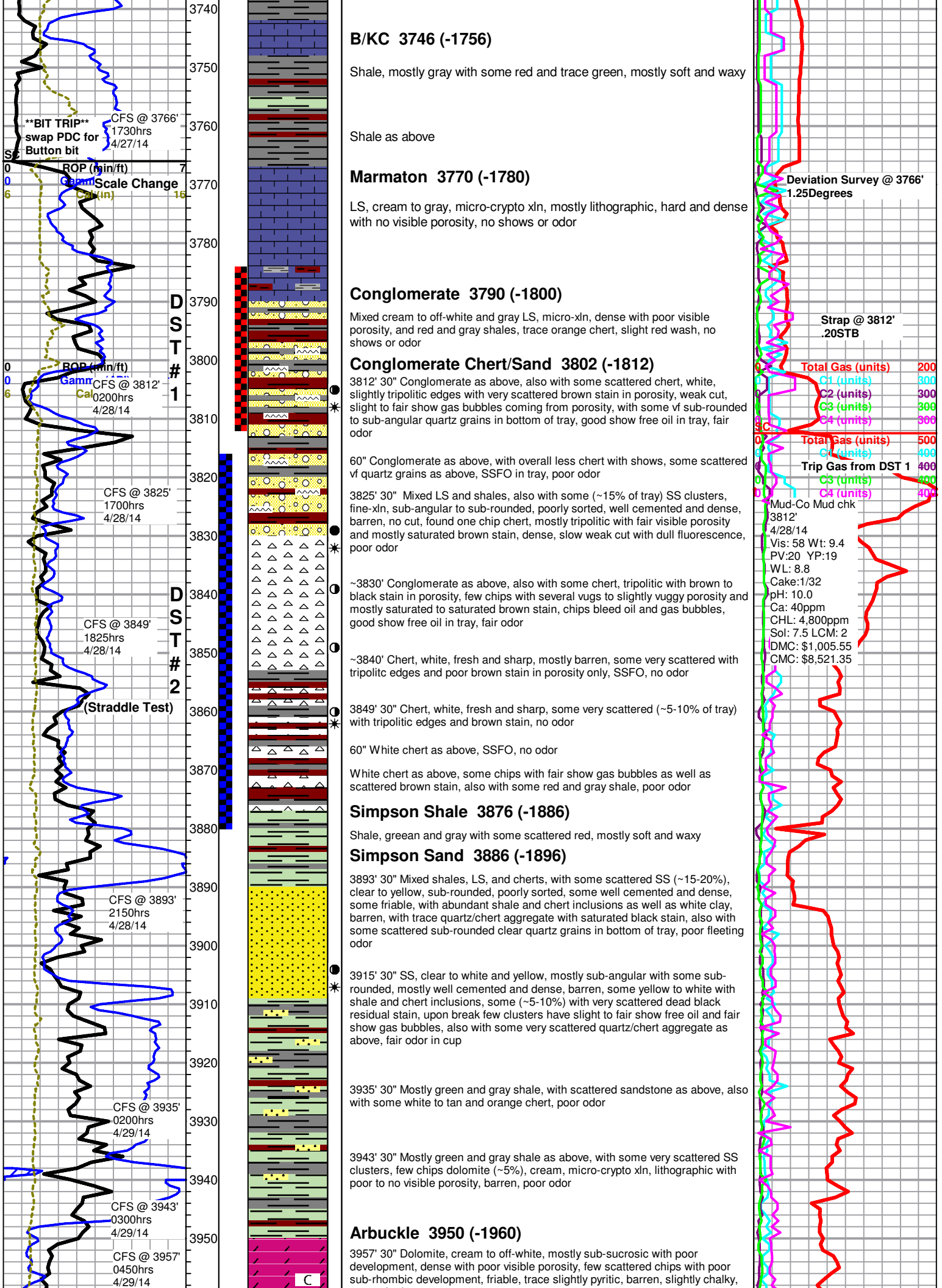
LS, cream to white with some scattered gray and brown, micro-crypto xln, mostly lithographic and dense with poor visible porosity, some scattered chalky in part, no shows or odor

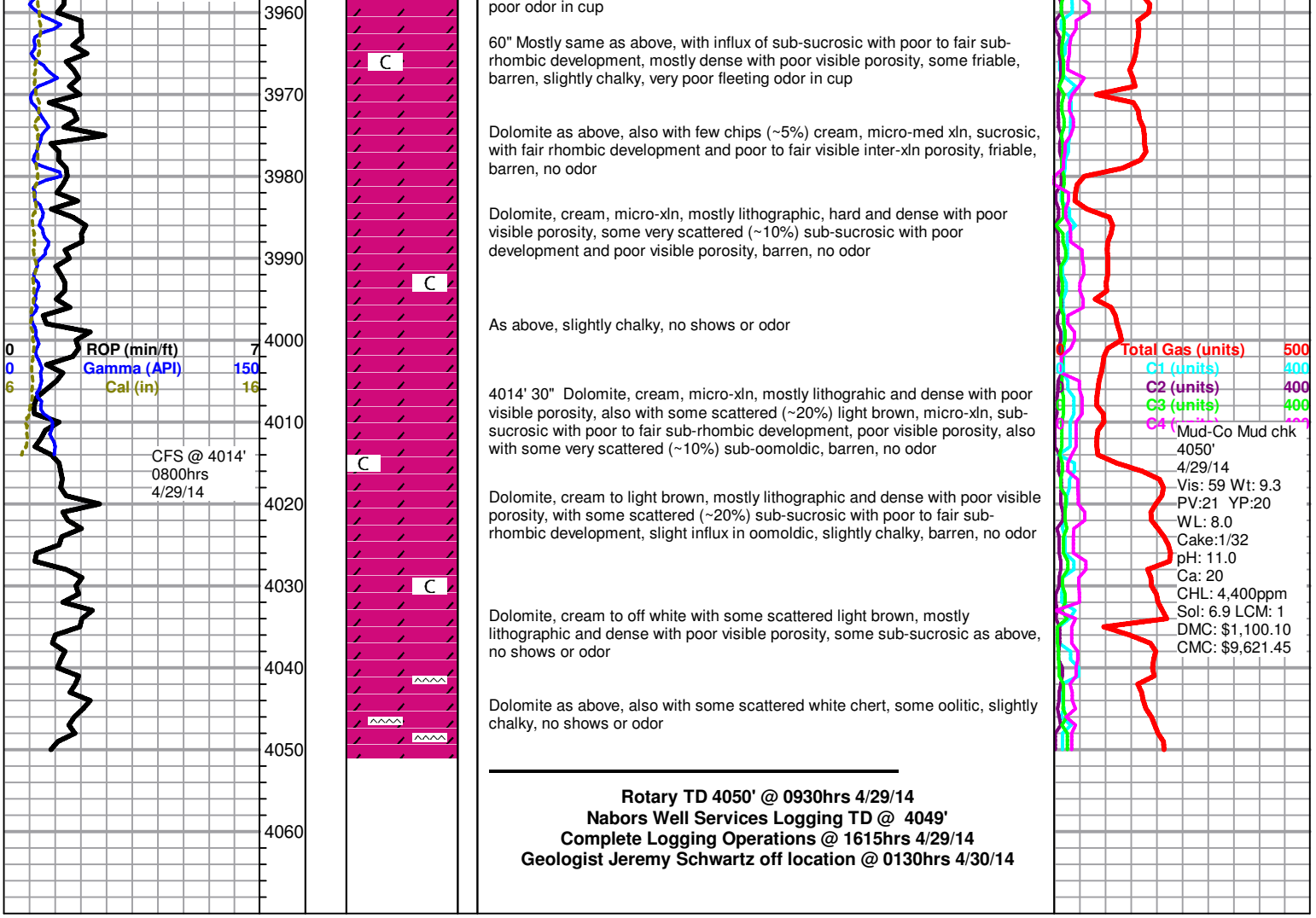
Stark Shale 3703 (-1713)

Shale, black carbonaceous

LS, cream with some scattered gray, lithographic and dense with poor visible porosity, some soft and chalky in part, no shows or odor

LS, cream with some scattered light brown, micro-crypto xln, mostlly dense with poor to no visible porosity, no shows or odor


BIT TRIP
swap PDC for
Button bit
CFS @ 3766'
1730hrs
4/27/14
ROP (min/ft)
Gamma
Scale Change
Cal (in)
DST#1
CFS @ 3812'
0200hrs
4/28/14
CFS @ 3825'
1700hrs
4/28/14
DST#2
CFS @ 3849'
1825hrs
4/28/14
(Straddle Test)
CFS @ 3893'
2150hrs
4/28/14
CFS @ 3935'
0200hrs
4/29/14
CFS @ 3943'
0300hrs
4/29/14
CFS @ 3957'
0450hrs
4/29/14
3740
3750
3760
3770
3780
3790
3800
3810
3820
3830
3840
3850
3860
3870
3880
3890
3900
3910
3920
3930
3940
3950
B/KC 3746 (-1756)
Shale, mostly gray with some red and trace green, mostly soft and waxy
Shale as above
Marmaton 3770 (-1780)
LS, cream to gray, micro-crypto xln, mostly lithographic, hard and dense with no visible porosity, no shows or odor
Conglomerate 3790 (-1800)
Mixed cream to off-white and gray LS, micro-xln, dense with poor visible porosity, and red and gray shales, trace orange chert, slight red wash, no shows or odor
Conglomerate Chert/Sand 3802 (-1812)
3812' 30" Conglomerate as above, also with some scattered chert, white, slightly tripolitic edges with very scattered brown stain in porosity, weak cut, slight to fair show gas bubbles coming from porosity, with some vf sub-rounded to sub-angular quartz grains in bottom of tray, good show free oil in tray, fair odor
60" Conglomerate as above, with overall less chert with shows, some scattered vf quartz grains as above, SSFO in tray, poor odor
3825' 30" Mixed LS and shales, also with some (~15% of tray) SS clusters, fine-xln, sub-angular to sub-rounded, poorly sorted, well cemented and dense, barren, no cut, found one chip chert, mostly tripolitic with fair visible porosity and mostly saturated brown stain, dense, slow weak cut with dull fluorescence, poor odor
~3830' Conglomerate as above, also with some chert, tripolitic with brown to black stain in porosity, few chips with several vugs to slightly vuggy porosity and mostly saturated to saturated brown stain, chips bleed oil and gas bubbles, good show free oil in tray, fair odor
~3840' Chert, white, fresh and sharp, mostly barren, some very scattered with tripolitc edges and poor brown stain in porosity only, SSFO, no odor
3849' 30" Chert, white, fresh and sharp, some very scattered (~5-10% of tray) with tripolitic edges and brown stain, no odor
60" White chert as above, SSFO, no odor
White chert as above, some chips with fair show gas bubbles as well as scattered brown stain, also with some red and gray shale, poor odor
Simpson Shale 3876 (-1886)
Shale, greean and gray with some scattered red, mostly soft and waxy
Simpson Sand 3886 (-1896)
3893' 30" Mixed shales, LS, and cherts, with some scattered SS (~15-20%), clear to yellow, sub-rounded, poorly sorted, some well cemented and dense, some friable, with abundant shale and chert inclusions as well as white clay, barren, with trace quartz/chert aggregate with saturated black stain, also with some scattered sub-rounded clear quartz grains in bottom of tray, poor fleeting odor
3915' 30" SS, clear to white and yellow, mostly sub-angular with some sub-rounded, mostly well cemented and dense, barren, some yellow to white with shale and chert inclusions, some (~5-10%) with very scattered dead black residual stain, upon break few clusters have slight to fair show free oil and fair show gas bubbles, also with some very scattered quartz/chert aggregate as above, fair odor in cup
3935' 30" Mostly green and gray shale, with scattered sandstone as above, also with some white to tan and orange chert, poor odor
3943' 30" Mostly green and gray shale as above, with some very scattered SS clusters, few chips dolomite (~5%), cream, micro-crypto xln, lithographic with poor to no visible porosity, barren, poor odor
Arbuckle 3950 (-1960)
3957' 30" Dolomite, cream to off-white, mostly sub-sucrosic with poor development, dense with poor visible porosity, few scattered chips with poor sub-rhombic development, friable, trace slightly pyritic, barren, slightly chalky,
C
Deviation Survey @ 3766'
1.25Degrees
Strap @ 3812'
.20STB
Total Gas (units) 200
C1 (units) 300
C2 (units) 300
C3 (units) 300
C4 (units) 300
Total Gas (units) 500
C1 (units) 400
Trip Gas from DST 1
C3 (units) 400
C4 (units) 400
Mud-Co Mud chk
3812'
4/28/14
Vis: 58 Wt: 9.4
PV:20 YP:19
WL: 8.8
Cake:1/32
pH: 10.0
Ca: 40ppm
CHL: 4,800ppm
Sol: 7.5 LCM: 2
DMC: $1,005.55
CMC: $8,521.35



poor odor in cup

60" Mostly same as above, with influx of sub-sucrosic with poor to fair sub-rhombic development, mostly dense with poor visible porosity, some friable, barren, slightly chalky, very poor fleeting odor in cup

Dolomite as above, also with few chips (~5%) cream, micro-med xln, sucrosic, with fair rhombic development and poor to fair visible inter-xln porosity, friable, barren, no odor

Dolomite, cream, micro-xln, mostly lithographic, hard and dense with poor visible porosity, some very scattered (~10%) sub-sucrosic with poor development and poor visible porosity, barren, no odor

As above, slightly chalky, no shows or odor

4014' 30" Dolomite, cream, micro-xln, mostly lithograhic and dense with poor visible porosity, also with some scattered (~20%) light brown, micro-xln, sub-sucrosic with poor to fair sub-rhombic development, poor visible porosity, also with some very scattered (~10%) sub-oomoldic, barren, no odor

Dolomite, cream to light brown, mostly lithographic and dense with poor visible porosity, with some scattered (~20%) sub-sucrosic with poor to fair sub-rhombic development, slight influx in oomoldic, slightly chalky, barren, no odor

Dolomite, cream to off white with some scattered light brown, mostly lithographic and dense with poor visible porosity, some sub-sucrosic as above, no shows or odor

Dolomite as above, also with some scattered white chert, some oolitic, slightly chalky, no shows or odor

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Rotary TD 4050' @ 0930hrs 4/29/14
Nabors Well Services Logging TD @ 4049'
Complete Logging Operations @ 1615hrs 4/29/14
Geologist Jeremy Schwartz off location @ 0130hrs 4/30/14