

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

Well Name:	**Gleason #1 - Carmen Schmitt, Inc.**
API:	**15-083-21943**
Location:	**N2-NE-SE-NE, Section 14-23S-21W**
License Number:	**KCC #6569**
Region:	**Hodgeman Co., Ks.**
Spud Date:	**September 07, 2017**
Drilling Completed:	**September 14, 2017**
Surface Coordinates:	**1390'FNL & 330'FEL, of Section**
Results:	**Prod Csg Set**
Bottom Hole Coordinates:	**Vertcal Wellbore**
Field:	**Horacek**
Ground Elevation (ft):	**2329 Ft.**
K.B. Elevation (ft):	**2334 Ft.**
Logged Interval (ft):	**3800 Ft. To: 4598 Ft.**
Total Depth (ft):	**RTD 4598 Ft. LTD 4599 Ft.**
Formation:	**Mississippian at Total Depth**
Type of Drilling Fluid:	**Chemical**

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

Operator

Company: Carmen Schmitt, Inc.
Address: PO Box 47
Great Bend, Kansas 67530-0047

Geologist

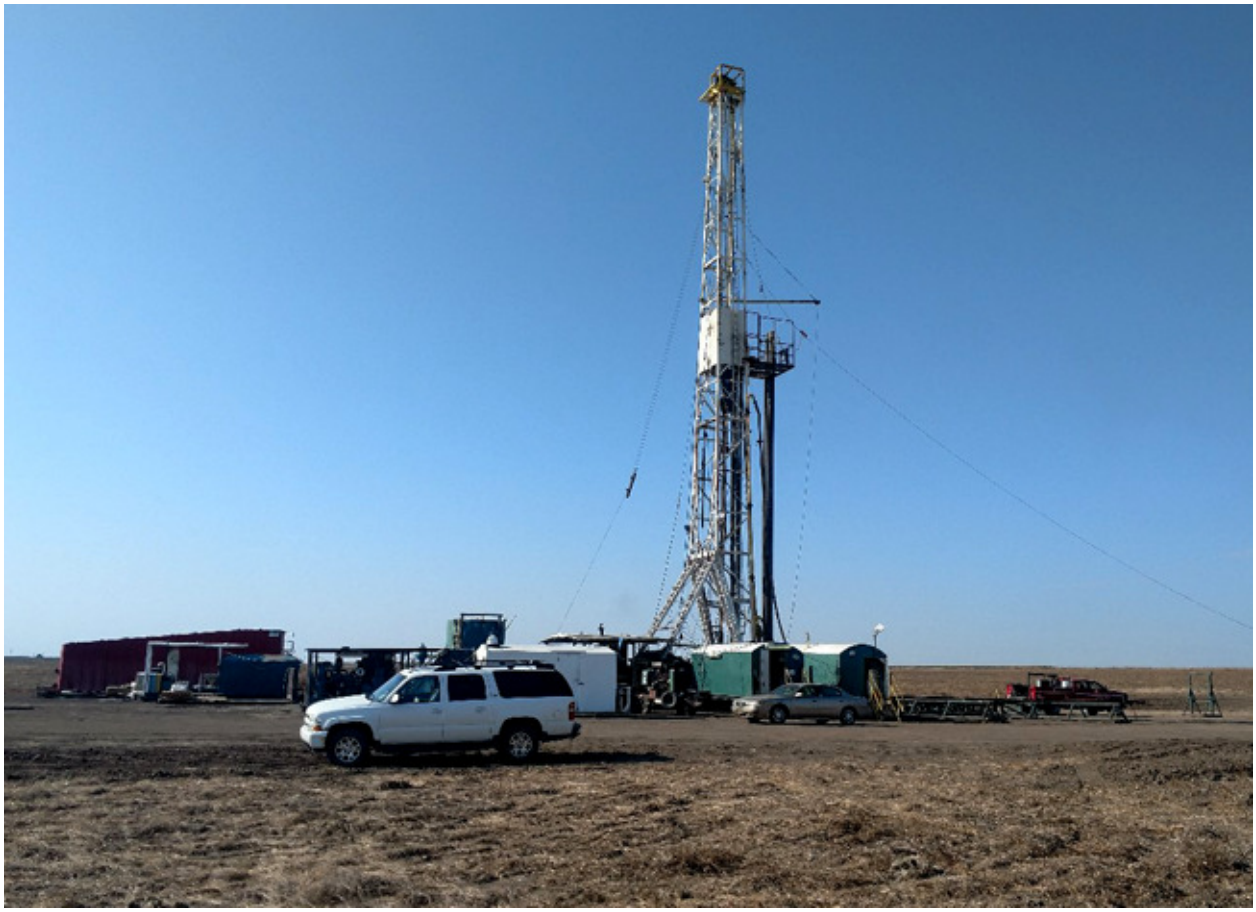
Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #415
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to set production casing on the "Gleason #1", for completion in the Mississippian.

Respectfully submitted,
M. Bradford Rine
Geologist

Carmen Schmitt, Inc.
"Gleason #1"
Section 14-23S-21W, Hodgeman County, Kansas



Drilling Information

Rig: Murfin Drlg Co (Rig #16)
Pump: Emsco D375 6x14
Drawworks: Cardwell Royale
Collars: 498' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Andrew Dinkel

Mud: Mudco (Jason Whiting)
Gas Detector: None
Drill Stem Tests: Trilobite (Spencer Staab)
Logs: Pioneer (D. Schmidt)
Water: Farm Pond, Horacek Lease (Pumped over)
Company Representatives:
Office: Carmen Schmitt
Field: Curtis Hitchmann

Daily Drilling Status

Date:	Operations/Depth/Comments
09-06-17	MIRT @ 0'
09-07-17	Finish MIRT, RU, Spud @ 0', at 1:15 PM
09-08-17	Drilling @ 475'
09-09-17	Drilling @ 2210'
09-10-17	Drilling @ 3100'
09-11-17	Drilling @ 3850'
09-12-17	Drilling @ 4360'
09-13-17	Trip Out of Hole for DST 1 @ 4598'
09-14-17	Complete logging at 1:00 am @ 4598'
	Complete run casing and cementing 5:00 PM

	Results:	Oil		(Well A)	Oil	Well B)	D&A		
	Carmen Schmitt, Inc.			Carmen Schmitt, Inc.		Sunray DX Oil			
	Gleason #1			Horacek "A" #1		Gertrude Burr #1			
	1390'FNL & 330'FEL			1820'FNL & 1000'FWL		C-NE-SW			
	Sec. 14-23S-21W			Sec. 13-23S-21W		Sec. 11-23S-21W			
		2334	KB	2316	KB	2343	KB	Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	1442	1441	893	1426	890	1457	886	3	7
B/Anhydrite	1463	1462	872	1447	869	1480	863	3	9
Heebner Sh.	3943	3944	-1610	3921	-1605	3961	-1618	-5	8
Brown Lime	4018	4019	-1685	3994	-1678	4041	-1698	-7	13
Lansing	4034	4034	-1700	4008	-1692	4052	-1709	-8	9
Stark Sh.	4263	4262	-1928	4232	-1916	4290	-1947	-12	19
B/Kansas City	4352	4349	-2015	4320	-2004	4373	-2030	-11	15
Marmaton	4358	4355	-2021	4327	-2011	4379	-2036	-10	15
Pawnee	4456	4458	-2124	4434	-2118	4490	-2147	-6	23
Ft. Scott	4530	4527	-2193	4502	-2186	4559	-2216	-7	23
Cherokee Sh.	4554	4553	-2219	4525	-2209	4583	-2240	-10	21
Mississippian	4593	4593	-2259	4567	-2251	4635	-2292	-8	33
Total Depth	4598	4599	-2265	4576	-2260	4723	-2380	-5	115

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Set 8-5/8" 23# Casing @ 218 ft. (Copeland) Cement with 185 sx Common 60/40 POZ 3%CC, 2% gel. Cement did circulate.

Production: Ran 108 jts 15.50# 5.5 new casing 4592 ft. with packer shoe. Shoe jt 42.42 ft. centralizes on 4,6,8,10,12,14,16,18,20,22,74,&75th jts. Baskets on 31 & 73 jts. Picked up jt. tagged bottom 4598ft picked up 3ft. off bottom. set pipe at 4592 ft. Circulated 1 hr. Dropped ball and set packer shoe w/(Swift) pump truck. Pumped 500 gal mud flush followed by 20 bbl. KCL flush. Plugged RH with 30 sx and MH with 20 sx. Mixed 550 SKS SMD. started at 11.2# finished at 14.5#. Washed pump and lines, started displacing. Displaced 108.4 bbls at 6.5 bpm. Landed plug at 2000#. Plug held. Cement circulated to surface. 10 SKS to pit. Cement was falling back in surface pipe. First 50 bbl displacement had 2% KCL fluid. Rig released 5:00 PM 09/15/2017

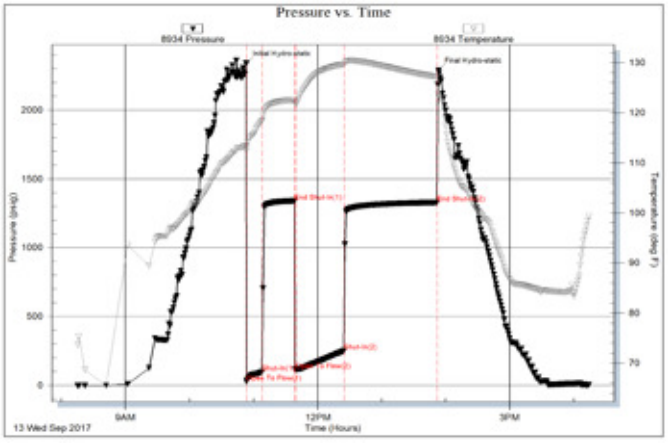
BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	RR	TC-11	0	220	3.25
2	7-7/8	HTC	GX20C	220	4598	105.25

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	220'	0.75*	4598'
0.87*	2441'		

DST #1: 4575-4598 (Mississippi)
Times: 15-30-45-90
Initial Open: Stg Blow b.o.b. 7 min,
Return blow max 5", died back to 4"
Final Open: Stg Blow b.o.b. 3 min,
Return blow b.o.b. 30 min.
Rec: 560' Total Fluid, 1640' Gas in Pipe
60' GMCO: 50%g 40%o 10%m
120' GCO: 30%g 70%o (emulsified)
120' GCO: 30%g 70%o
180' GCO: 50%g 50%o
80' SGCO: 10%g 90%o (40* API)
IHP: 2335 FHP: 2286
IFP: 26-97 FFP: 114-250
ISIP: 1340 FSIP: 1328
BHT: 127*F



Rock Types

Congl granite wash
dol ls limey dol
New symbol
Dolom ls limey dol
New symbol
Anhy
Bent
Brec
Cht
Clyst
Black shale/coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
Sltysh
Shlysiltst
Sandyls

Accessories

MINERAL
Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff

FOSSIL
Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom

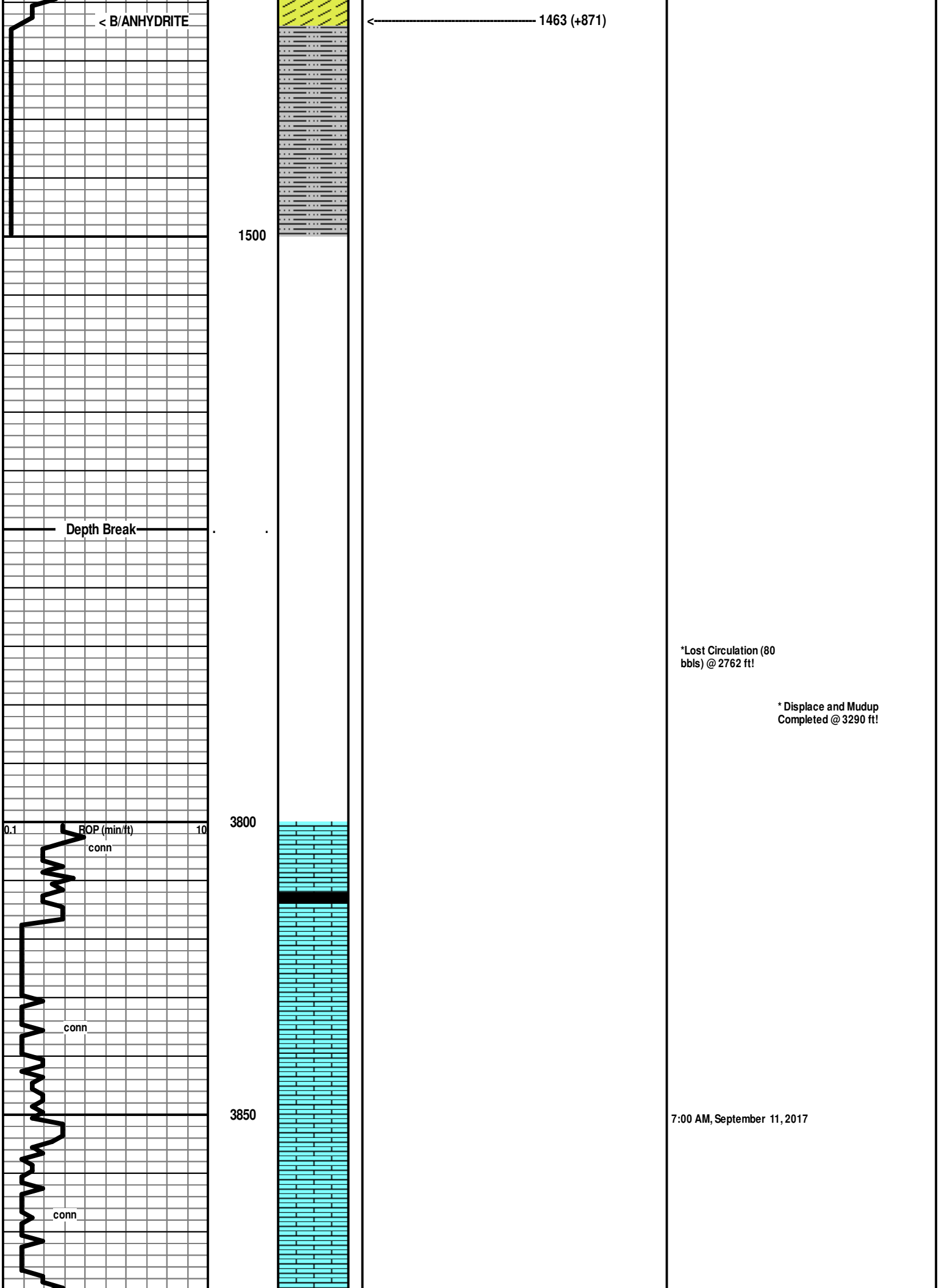
STRINGER
Anhy
Shale
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg

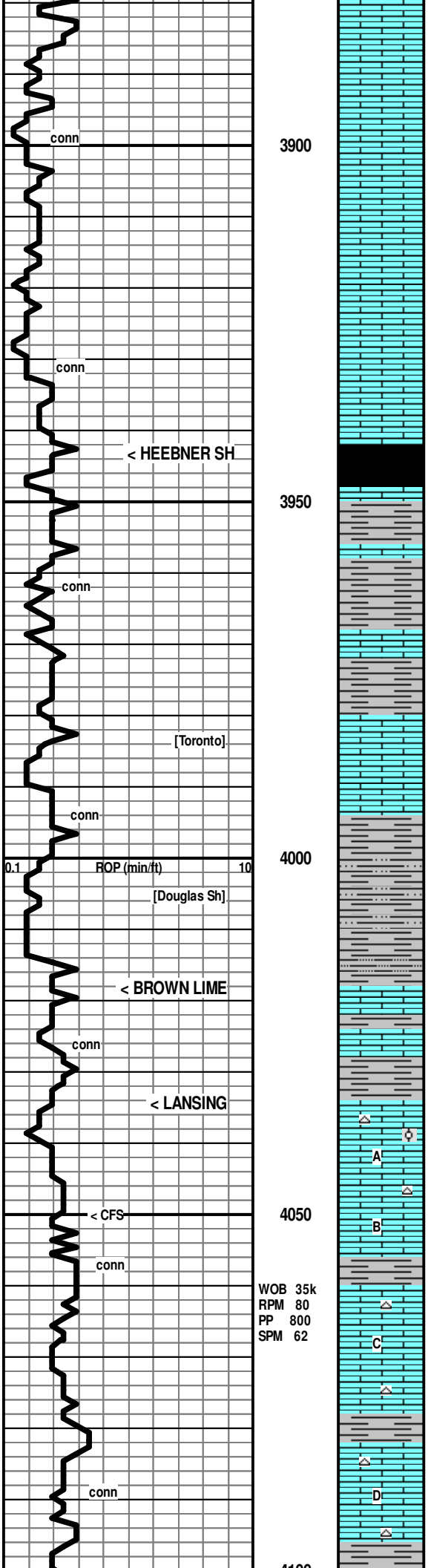
TEXTURE
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

Other Symbols

OIL SHOW
Oil & gas show
Gas show
Even
Spotted
Ques
Dead
Gas
INTERVAL
Core
Dst

ROP (min/ft)	Depth	Lithology	Shows	Geological Descriptions	Remarks
0.1 ROP (min/ft) 10	1400				
< ANHYDRITE	50			<---------- 1442 (+892) Anhydrite Interval: Based on drill time only!	


< B/ANHYDRITE
<---------- 1463 (+871)
1500
Depth Break
*Lost Circulation (80 bbls) @ 2762 ft!
* Displace and Mudup Completed @ 3290 ft!
0.1
ROP (min/ft)
10
3800
conn
conn
3850
7:00 AM, September 11, 2017
conn



Ls wh-cr, fnxln, pr xln por to dns in pt, chalky & soft in pt

Ls cr, pr-fr xln por with scatt interool pores

<---------- 3943 (-1609)

Sh black, carb (first arrival in 3970' spl, well repres in 3980' spl)

Ls cr-tan, fn xln, pr xln por to dns, foss

Sh gy-dk gy-grnish

Sh gy-grn

Ls cr-tan-brn, fn xln, pr xln por in pt, dns in pt, foss

Sh gy-grnish, silty in pt to shaley siltstone

<---------- 4018 (-1684)

Ls cr-tan-brn, fn xln, dns, foss

Sh gy

<---------- 4034 (-1700)

Ls cr-tan,fn xln, pr-fr xln por in pt, dns in pt, foss, scatt ool, chert: fresh, gy-tan, subopaq-subtransl, foss in pt

Ls wh-cr, fn xln, dns, foss, chert: fresh, wh-cr-tan, subtransl, foss

Sh gy

Ls wh-cr, fn xln, dns to pr xln por, sli foss in pt, chert: fresh, cr-gy, subtransl

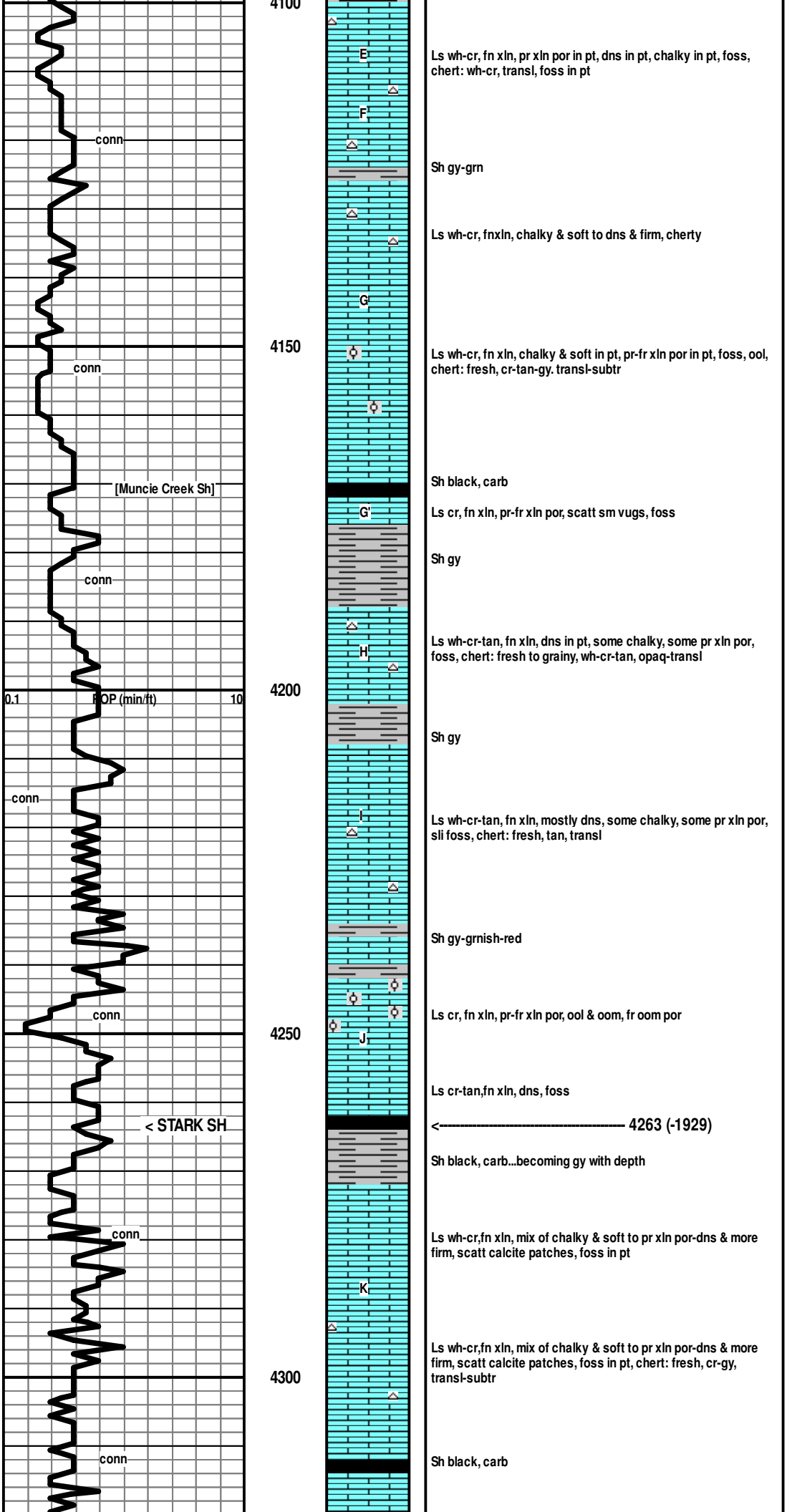
Sh gy

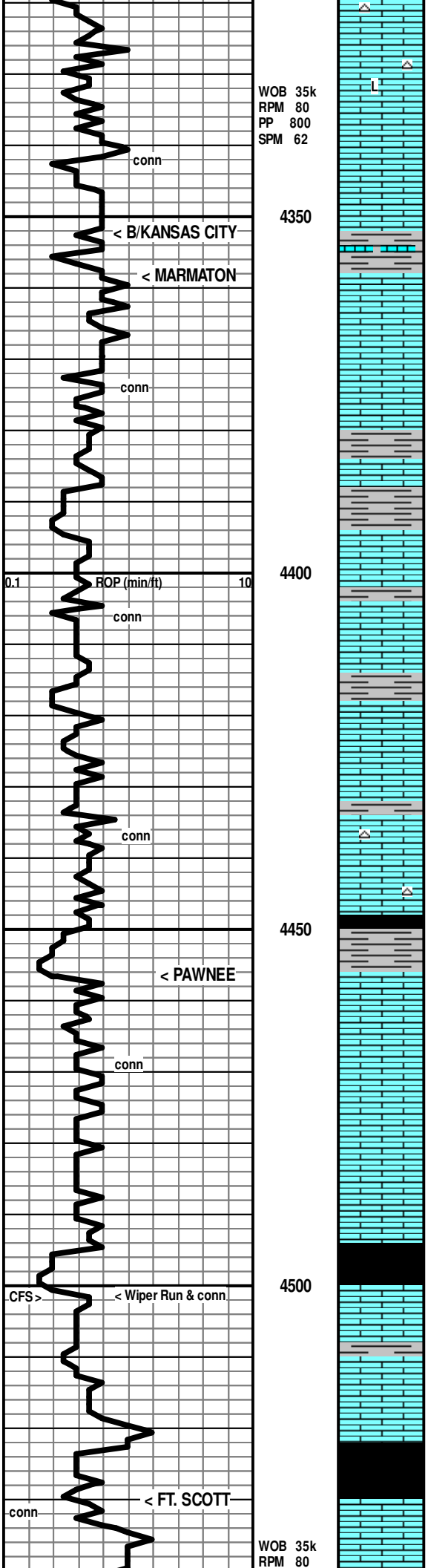
Ls wh-cr,fn xln, dns to pr xln por, sli foss, chert: fresh, cr-tan, transl-subtr

Sh gy-dk gy

Mud Check, CFS @ 4050':

Vis	Wt	WL	LCM	PV	YP
68	9.15	8.8	1/2	22	24
Chl	Hd	pH	Solids		
3900	20	10.0	5.5		


4100
E
F
G
4150
G'
H
4200
I
J
4250
K
4300
conn
conn
[Muncie Creek Sh]
conn
conn
conn
conn
conn
0.1
ROP (min/ft)
10
< STARK SH
Ls wh-cr, fn xln, pr xln por in pt, dns in pt, chalky in pt, foss, chert: wh-cr, transl, foss in pt
Sh gy-grn
Ls wh-cr, fnxln, chalky & soft to dns & firm, cherty
Ls wh-cr, fn xln, chalky & soft in pt, pr-fr xln por in pt, foss, ool, chert: fresh, cr-tan-gy. transl-subtr
Sh black, carb
Ls cr, fn xln, pr-fr xln por, scatt sm vugs, foss
Sh gy
Ls wh-cr-tan, fn xln, dns in pt, some chalky, some pr xln por, foss, chert: fresh to grainy, wh-cr-tan, opaq-transl
Sh gy
Ls wh-cr-tan, fn xln, mostly dns, some chalky, some pr xln por, sli foss, chert: fresh, tan, transl
Sh gy-grnish-red
Ls cr, fn xln, pr-fr xln por, ool & oom, fr oom por
Ls cr-tan,fn xln, dns, foss
<---------- 4263 (-1929)
Sh black, carb...becoming gy with depth
Ls wh-cr,fn xln, mix of chalky & soft to pr xln por-dns & more firm, scatt calcite patches, foss in pt
Ls wh-cr,fn xln, mix of chalky & soft to pr xln por-dns & more firm, scatt calcite patches, foss in pt, chert: fresh, cr-gy, transl-subtr
Sh black, carb



Ls wh-cr-tan-brn, vfn-fn xln, dns, foss, chert: fresh, gy, subransl

Ls wh-cr, vfn-fn xln, dns, foss

<---------- 4352 (-2018)

Sh gy-grnish gy, subsilty in pt

<---------- 4358 (-2024)

7:00 AM, September 12, 2017

Ls wh-cr, fn xln, subchalky in pt, dns in pt, foss

Sh gy-grnish gy

Ls wh-cr, fn xln, subchalky in pt, dns in pt, foss

Sh gy-grn

Ls cr, fn xln, dns, scatt calcite patches, foss

Ls cr, fn xln, dns, scatt calcite patches, foss

Sh gy-dk gy

Ls wh-cr, vfn-fn xln, dns to vpr xln por, foss in pt

Sh gy-grnish

Ls wh-cr, vfn-fn xln, dns to vpr xln por, foss in pt, chert: fresh, glassy-wh, transl, foss in pt

Sh mostly gy-grn, some dkgy-black, carb in pt

<---------- 4456 (-2122)

Ls wh-cr. vfn-fn xln, dns, sli foss in pt

Ls wh-cr, fn xln, mostly dns, some pr xln por, trace subchalky, foss in pt

Mud Check, Drlg @ 4479':

Vis	Wt	WL	LCM	PV	YP
59	9.3	8.8	1/2	19	19
Chl	Hd	pH	Solids		
3450	20	10.0	7.0		

Ls wh-cr, fn xln, mostly dns, some pr xln por, trace subchalky, foss in pt

Sh gy-dk gy-black, carb in pt

80% shales (from short trip?); 20% Ls cr, fn xln, dns, foss in pt

* Ran 60-Stand Wiper Run @ 4501 ft, to condition hole for upcoming DSTs and logs!

Sh gy

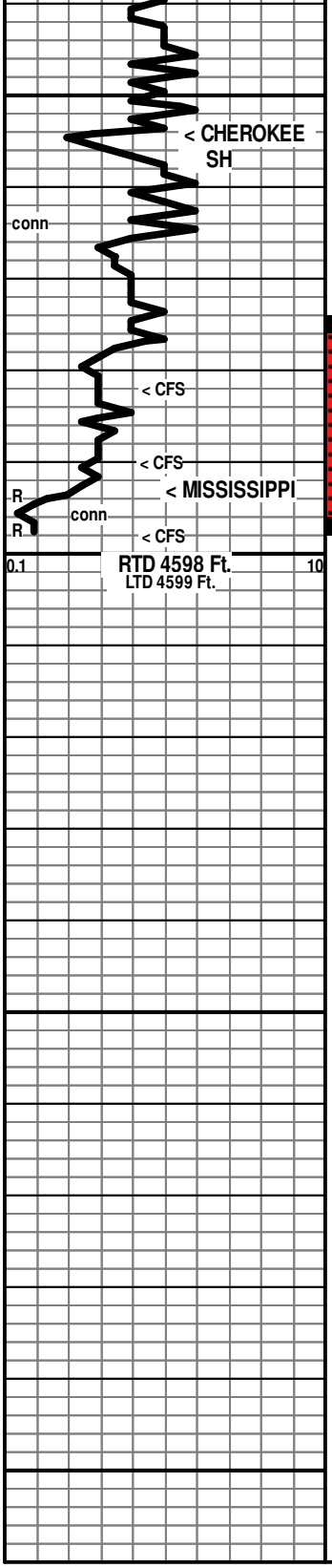
Ls wh-cr, fn xln, soft & chalky in pt, dns & firm in pt, foss, scatt pyr specks

Sh black, carb (arrived in 4540' spl)

<---------- 4530 (-2196)

Ls wh-cr-gy, vfn-fn xln, soft & chalky in pt, dns & firm in pt, foss, scatt calcite specks & patches

DST #1: 4575-4598 (Mississippi)



Sh gy

Ls wh-cr-tan, fnxln,dns in pt, chalky in pt, foss

<---------- 4554 (-2220)

Sh black, carb (first arrival 4560' spl)

Ls wh-cr-tan, fnxln,dns in pt, chalky in pt, foss

Sh gy-dk gy

Ls wh-cr-tan, fnxln,dns in pt, chalky in pt, foss

Sh mostly gy-grn with some red, subsitly-silty in pt, foss in pt, abund dns wh ls in spls

<---------- 4593 (-2259)

Dol & chert: Dol, cr-tan, fnxln, subsucrosic-sucr, pr vis xln por, scatt pp pores & sm vugs; Chert: fresh to sli weathered-weath'd with scatt vugs in patches & pcs, wh-cr-tan, subtransl-transl to opaq, Tr of pyr

[Stg Odor, Abund Brt spotty-patchy-even Fluor, abund pcs with mix of sli-mod-gd shows of brn gassy FO, patchy-even tan-brn-dk Stn where porous]

Times: 15-30-45-90
Initial Open: Stg Blow b.o.b. 7 min,
Return blow max 5", died back to 4"
Final Open: Stg Blow b.o.b. 3 min,
Return blow b.o.b. 30 min.
Rec: 560' Total Fluid, 1640' Gas in Pipe
60' GMCO: 50%g 40%o 10%m
120' GCO: 30%g 70%o (emulsified)
120' GCO: 30%g 70%o
180' GCO: 50%g 50%o
80' SGCO: 10%g 90%o (40* API)
IHP: 2335 FHP: 2286
IFP: 26-97 FFP: 114-250
ISIP: 1340 FSIP: 1328
BHT: 127*F

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* Pipe Strap @ 4598 ft: .34 ft long to board!

7:00 AM, September 13, 2017

Mud Check, Trip for DST @ 4598':

Vis	Wt	WL	LCM	PV	YP
58	9.3	8.4	1/2	18	19
Chl	Hd	pH	Solids		
3050	20	11.0	7.0		