Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1128600

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4767
Name: Ritchie Exploration, Inc.
Address 1: 8100 E 22ND ST N # 700
Address 2: BOX 783188
City: WICHITA State: KS Zip: 67278 + 3188
Contact Person: John Niernberger
Phone: (316) 691-9500
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Adam Eldani
Purchaser: NCRA

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

12/06/2012	12/12/2012	1/23/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-159-22692-00-00
Spot Description: 5'S of N2NESE
S2 - N2 - NE - SE Sec. 6 Twp. 18 S. R. 10 ☐ East ☑ West
2305 Feet from ☐ North / ☑ South Line of Section
660 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Rice
Lease Name: Schlicht Trust Well #: 1
Field Name:
Producing Formation: LKC
Elevation: Ground: 1785 Kelly Bushing: 1789
Total Vertical Depth: 3308 Plug Back Total Depth: 2960
Amount of Surface Pipe Set and Cemented at: 322 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 54000 ppm Fluid volume: 1000 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 03/27/2013
☑ **Confidential Release Date:** 03/27/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 03/28/2013

1128600

Operator Name: Ritchie Exploration, Inc. Lease Name: Schlicht Trust Well #: 1

Sec. 6 Twp. 18 S. R. 10 ☐ East ☑ West County: Rice

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Dual Induction
Compensated Neutron/Density Log

☐ Log Formation (Top), Depth and Datum ☑ Sample

Name Attached Top Attached Datum Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	322	Common	200	3%cc,2% gel
Production	7.875	5.5	15.5	3303	OWC	160	10% salt,2% gel,5#/sx KolSeal,1/4% CDI

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	3223-3224 (1/9/13)	250 Gal,15% NE Acid w/Clay-stabilizers & Surfactant	
4	3224-3227 (1/14/13)		
4	3009.5-313.5 (1/16/13)		
4	2969.5-2971.5 (1/17/13)	250 Gals,15% NE Acid	
4	2949.5-2952.5 (1/20/13)	250 Gals,15% NE Acid	

TUBING RECORD: Size: 2.875 Set At: 2960 Packer At: 2960 Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 2/13/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	8.35		0		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	Schlicht Trust 1
Doc ID	1128600

Tops

Name	Top	Datum
Anhydrite	N/A	
B/Anhydrite	N/A	
Stotler	2270	-481
Topeka	2555	-766
Heebner	2809	-1020
Lansing	2941	-1152
Muncie Shale	3085	-1296
Hush. Shale	3191	-1402
BKC	3208	-1419
Arbuckle	3226	-1437

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 27, 2013

John Niernberger
Ritchie Exploration, Inc.
8100 E 22ND ST N # 700
BOX 783188
WICHITA, KS 67278-3188

Re: ACO1
API 15-159-22692-00-00
Schlicht Trust 1
SE/4 Sec.06-18S-10W
Rice County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
John Niernberger

ALLIED OIL & GAS SERVICES, LLC 059177

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
12-6-12	6	18S	10W	4:00 PM	6:00 PM	7:41 PM	8:15 PM

LEASE Schlicht Trust WELL # 1 LOCATION 281N, 30E, 156N, 4E, 2nd rd S COUNTY Pike STATE KS

OLD OR NEW (Circle one)

2-01 4.3

CONTRACTOR ~~Ritchie Exploration~~ Southwind

OWNER Ritchie Exploration

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 322

CASING SIZE 8 5/8 DEPTH 311

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 500 PSI MINIMUM

MEAS. LINE SHOE JOINT 20'

CEMENT LEFT IN CSG. 20'

PERFS.

DISPLACEMENT 18.5 bbls

EQUIPMENT

PUMP TRUCK # 224 CEMENTER Patrick Helgeman 1

HELPER Josh Isaac 2

BULK TRUCK # 341 DRIVER Alan Genereux 3

BULK TRUCK # DRIVER

REMARKS:

CHARGE TO: Ritchie Exploration

STREET

CITY STATE ZIP

CEMENT

AMOUNT ORDERED 200 sxs Class A, 3% Calcium Chloride, 2% Gell

COMMON	200	@ 17.90	3,580.00
POZMIX		@	
GEL	4	@ 23.40	93.60
CHLORIDE	7	@ 64.00	448.00
ASC		@	
HANDLING	216.29	@ 2.48	536.35
MILEAGE	9.87 X 25	@ 2.60	~~[illegible]~~ 641.55
		TOTAL	5,299.50

~~300.87~~ 2,146.75

SERVICE

DEPTH OF JOB 322'

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE HVM 25 @ 7.70 192.50

MANIFOLD @

LVM 25 @ 4.40 110.00

TOTAL 1,814.75

PLUG & FLOAT EQUIPMENT

TOTAL

SALES TAX (If Any) 300.87

TOTAL CHARGES $7,114.25

DISCOUNT 25% 1,778.56 IF PAID IN 30 DAYS

$5,335.69

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME William Sanders

SIGNATURE William Sanders

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 39188
LOCATION Oakley, KS
FOREMAN Kelly Gabel

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-13-12	7173	Schlict trust #1	6	18	10	Rice KS

CUSTOMER: Ritchie Expl.
MAILING ADDRESS:
CITY: STATE: ZIP CODE:

Claflin 3E 1/2 S W & N into

TRUCK #	DRIVER	TRUCK #	DRIVER
399	DamonM		
460	TravisW		

JOB TYPE Prod HOLE SIZE 7 7/8 HOLE DEPTH 3310' CASING SIZE & WEIGHT 5 1/2 15.5#
CASING DEPTH 3305' DRILL PIPE TUBING OTHER
SLURRY WEIGHT 14.2 SLURRY VOL WATER gal/sk CEMENT LEFT In CASING 40'
DISPLACEMENT 77 3/4 DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety meeting, ran float equip, on jt #5 cent 1,2,3,5,7,10 Basket #7 ran pipe to bottom, hooked up to circulate for 1 hr, mixed 30sks MH, 30sks RH, mixed 160 sks OWC 5# Kol-Seal released Plug & displaced with 77 bbl with 1000# lift & Plug landed @ 1500, released pressure, float held, washed out pump & lines, rigged down

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401P	1	PUMP CHARGE	2700.00	2700.00
5406	30	MILEAGE	5.00	150.00
1126	210 sks	OWC	12.55	1735.50
1110A	1050#	Kol-Seal	.56	588.00
M46	29#	CAF-38	9.72	281.88
M37	179#	CDF-26	9.69	174.51
5407A	9.87	Ton mileage delivery	1.67	164.79
4203	1	5 1/2 Guide shoe (I)	193.00	193.00
4228B	1	5 1/2 AFU Insert (I)	206.00	206.00
4136	6	5 1/2 turbolizer (I)	72.00	432.00
4104	1	5 1/2 basket (I)	276.00	276.00
1144G	500gal	mud flush	1.00	500.00
4406	1	5 1/2 rubber plug	88.00	88.00
1111	100#	Salt		NC
				11,119.89
			Less 10% disc	1111.99
				10007.90
			SALES TAX	510.83
			ESTIMATED TOTAL	10518.73

Completed

Ravin 3737
AUTHORIZTION 6:00PM TITLE 12/13/12 DATE 12-13-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

2553S4

Adam Eldani Geo-Log/Report
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	**#1 Schlict Trust**		
Location:	**6-18S-10W Rice County, Ks**		
License Number:	**API 15-159-22692**	**Region:**	**KANSAS**
Spud Date:	**12/6/2012**	**Drilling Completed:**	**12/13/2012**
Surface Coordinates:	**2305' FSL & 660' FEL**		
Bottom Hole Coordinates:	**Deviation Surveys are detailed through out the Geo-Report.**		
Ground Elevation (ft):	**1780'**	**K.B. Elevation (ft):**	**1789'**
Logged Interval (ft):	**2100 To: 3308**	**Total Depth (ft):**	**3310**
Formation:	**Arbuckle**		
Type of Drilling Fluid:	**Mud-Co Chemical**		

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

OPERATOR

Company: Ritchie Exploration Inc. (drilled by Southwind Rig #2)
Address: 8100 E. 22nd ST. N. #700
Wichita, KS, 67278-3188

GEOLOGIST

Name: Adam M.A. Eldani
Company: Ritchie Exploration Inc.
Address: 8100 E. 22nd ST. N. #700
Wichita, KS, 67278-3188

TOPS & DRILL REPORT

TOPS:

Sample Tops:

AnhydriteNA
B/Anhydrite NA
Stotler 2270'-481
Topeka 2555'-766
Heebner 2809'-1020
Lansing 2941'-1152
Muncie Shale 3085'-1296
Hush. Shale 3191'-1402
BKC 3208'-1419
Arbuckle 3226'-1437
RTD 3310'-1521

E-Log Tops:

Anhydrite542'+1247
B/Anhydrite 564'+1225
Stotler2267'-478
Topeka2550'-761
Heebner2806'-1017
Lansing2938'-1149
Muncie Shale 3084'-1295
Hush. Shale 3192'-1403
BKC 3214-1425
Arbuckle3223'-1434
LTD 3308'-1519

DAILY DRILLING REPORT @ 7am:

12/06 0276'
12/07 0688'
12/08 2273'
12/09 2824'
12/10 3026'
12/11 3171'
12/12 3231'
12/13 3310'

Misc. Info.

All DST's info. are NEAR the correct log depth.

RIG: Southwind Drilling #2
DRILLPIPE: 4-1/2" XH

TOOLPUSHER: Bill Sanders

MUD: MUDCO (Rick Hughes)
GAS DETECTOR: None
DRILL STEM TESTS: Trilobite Testing
LOGS: Nabors (Cappellucci)

COMPANY REP: Scott Boeh
OFFICE: Peter Fiorini

Comments

SURFACE Casing: 8 5/8" @ 321'

Well Log Surveys by Nabors: Dual Inductio/ Compensated Density LOG

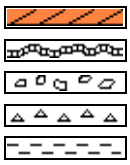
STRUCTURALLY, THIS WELL RAN LOWER TO OFFSET, SHOWS WERE TESTED.

After SAMPLE LOGGING, MUD LOGGING,ELECTRIC LOGGING, AND Drill Stem Results. THIS WELL IS SET FOR FURTHER TESTING.PRODUCTION CASING: (5 1/2") WAS SET ON #1 Schlict Trust FOR COMMERICAL QUANTITIES OF OIL AND GAS.

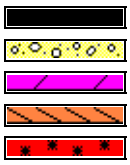
SAMPLES WILL BE DEPOSITED WITH KANSAS GEOLOGICAL SURVEY.

RESPECTFULLY SUBMITTED
Adam M. A. Eldani

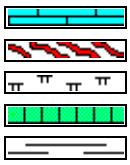
ROCK TYPES



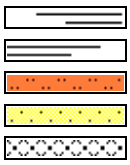
Anhy
Bent
Brec
Cht
Clyst



Coal
Congl
Dol
Gyp
Igne



Lmst
Meta
Mrlst
Salt
Shale

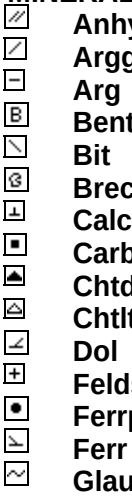


Shcol
Shgy
Sltst
Ss
Till

Carb sh

ACCESSORIES

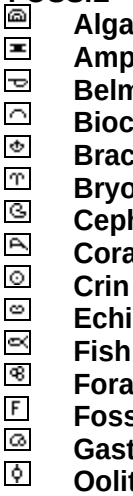
MINERAL



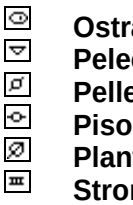
Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau

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
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst

Sltstrg
Ssstrg

TEXTURE

Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

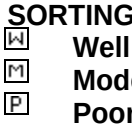
OTHER SYMBOLS

POROSITY

Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint

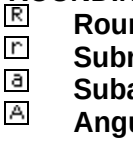
Vuggy

SORTING



Well
Moderate
Poor

ROUNDING



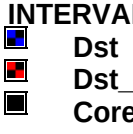
Rounded
Subrnd
Subang
Angular

OIL SHOW

Even

Spotted
Ques
Dead

INTERVAL

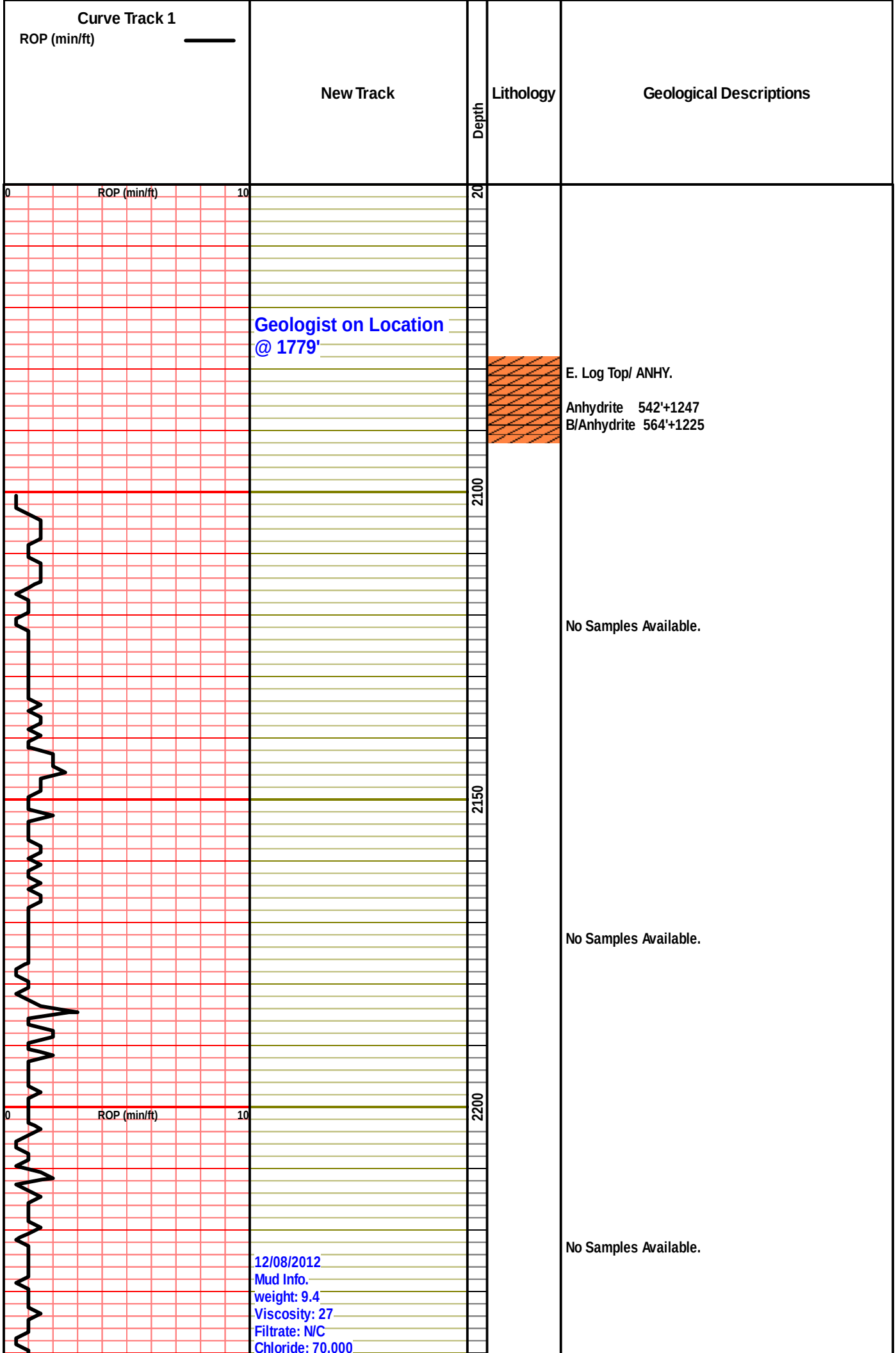


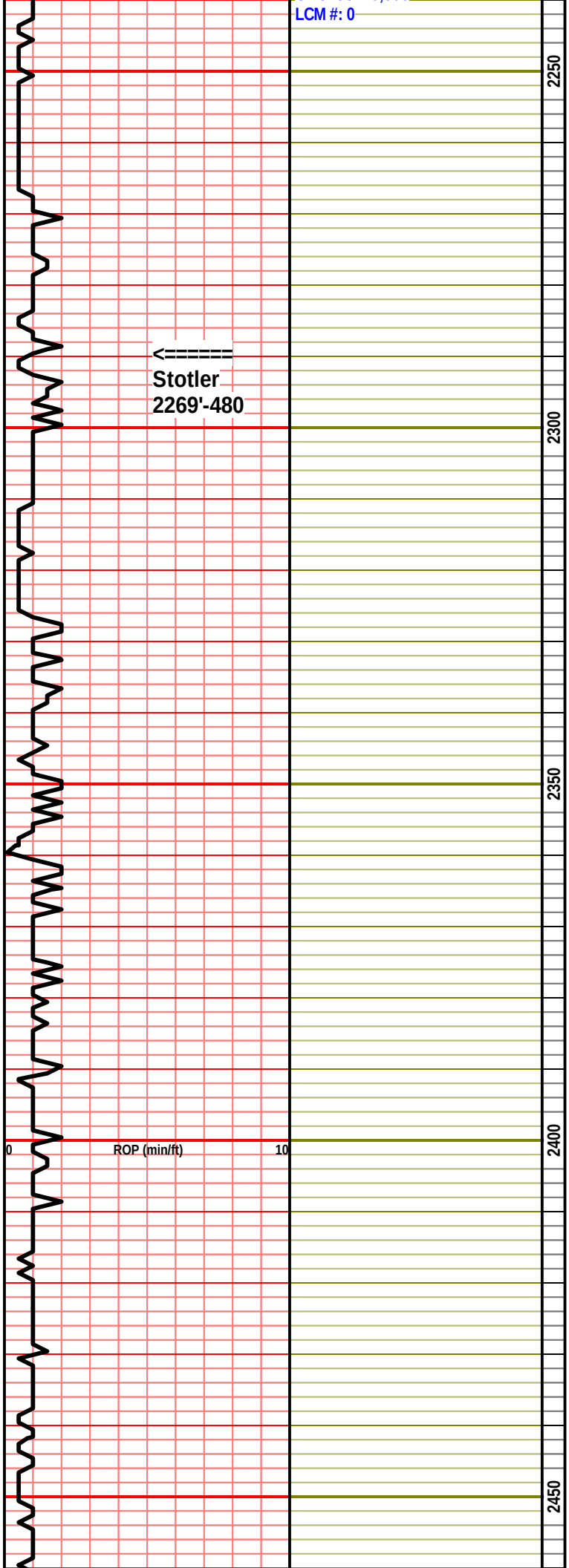
Dst
Dst_alt
Core

Dst

EVENT

Rft
Sidewall


Curve Track 1
ROP (min/ft)
New Track
Depth
Lithology
Geological Descriptions
0
ROP (min/ft)
10
20
Geologist on Location
@ 1779'
E. Log Top/ ANHY.
Anhydrite 542'+1247
B/Anhydrite 564'+1225
2100
No Samples Available.
2150
No Samples Available.
0
ROP (min/ft)
10
2200
No Samples Available.
12/08/2012
Mud Info.
weight: 9.4
Viscosity: 27
Filtrate: N/C
Chloride: 70,000

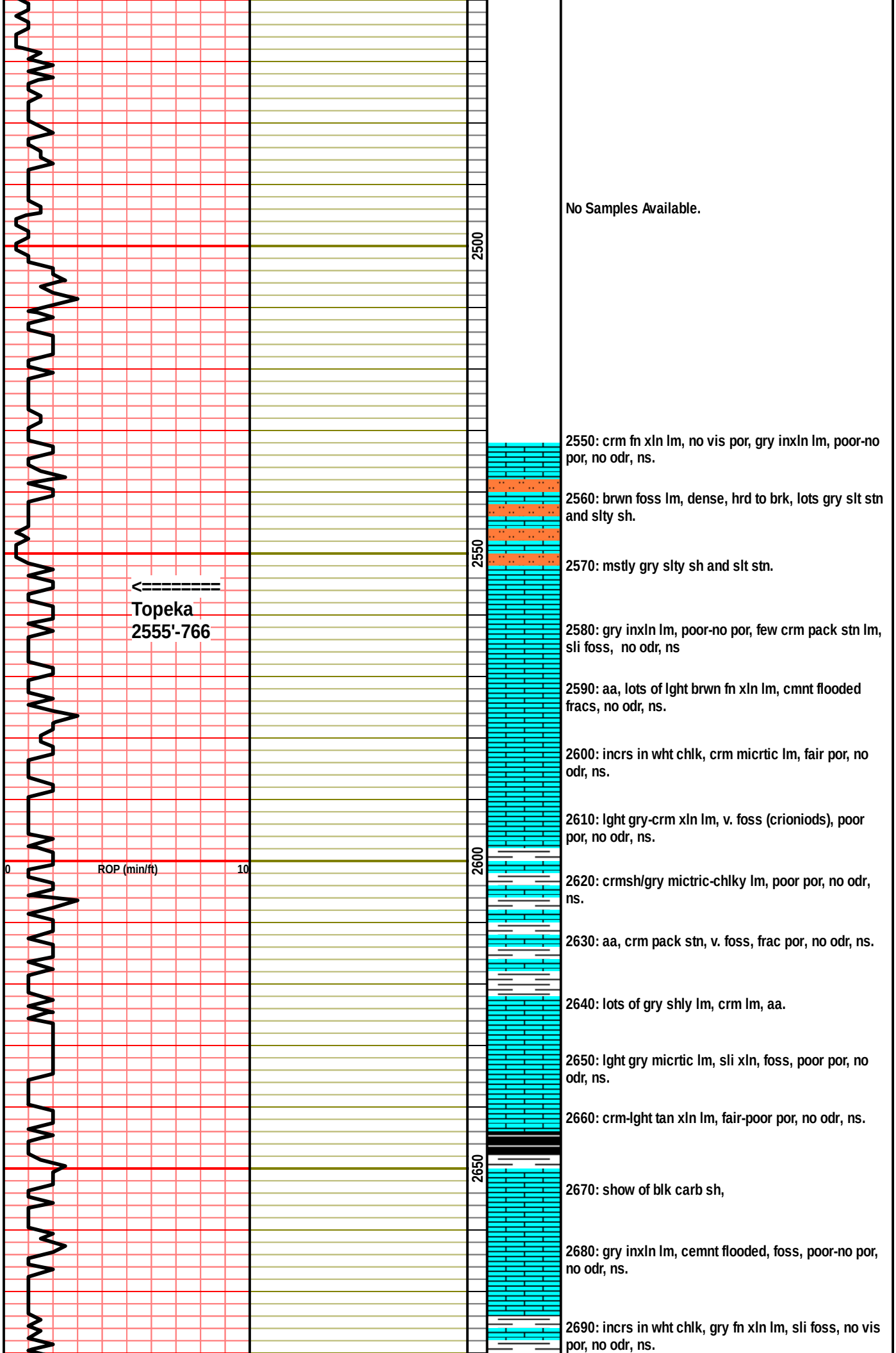


No Samples Available.

No Samples Available.

No Samples Available.

No Samples Available.



No Samples Available.

2550: crm fn xln lm, no vis por, gry inxln lm, poor-no por, no odr, ns.

2560: brwn foss lm, dense, hrd to brk, lots gry slt stn and slty sh.

2570: mstly gry slty sh and slt stn.

2580: gry inxln lm, poor-no por, few crm pack stn lm, sli foss, no odr, ns

2590: aa, lots of lght brwn fn xln lm, cmnt flooded fracs, no odr, ns.

2600: incrs in wht chlk, crm micrtic lm, fair por, no odr, ns.

2610: lght gry-crm xln lm, v. foss (crioniods), poor por, no odr, ns.

2620: crmsh/gry mictric-chlky lm, poor por, no odr, ns.

2630: aa, crm pack stn, v. foss, frac por, no odr, ns.

2640: lots of gry shly lm, crm lm, aa.

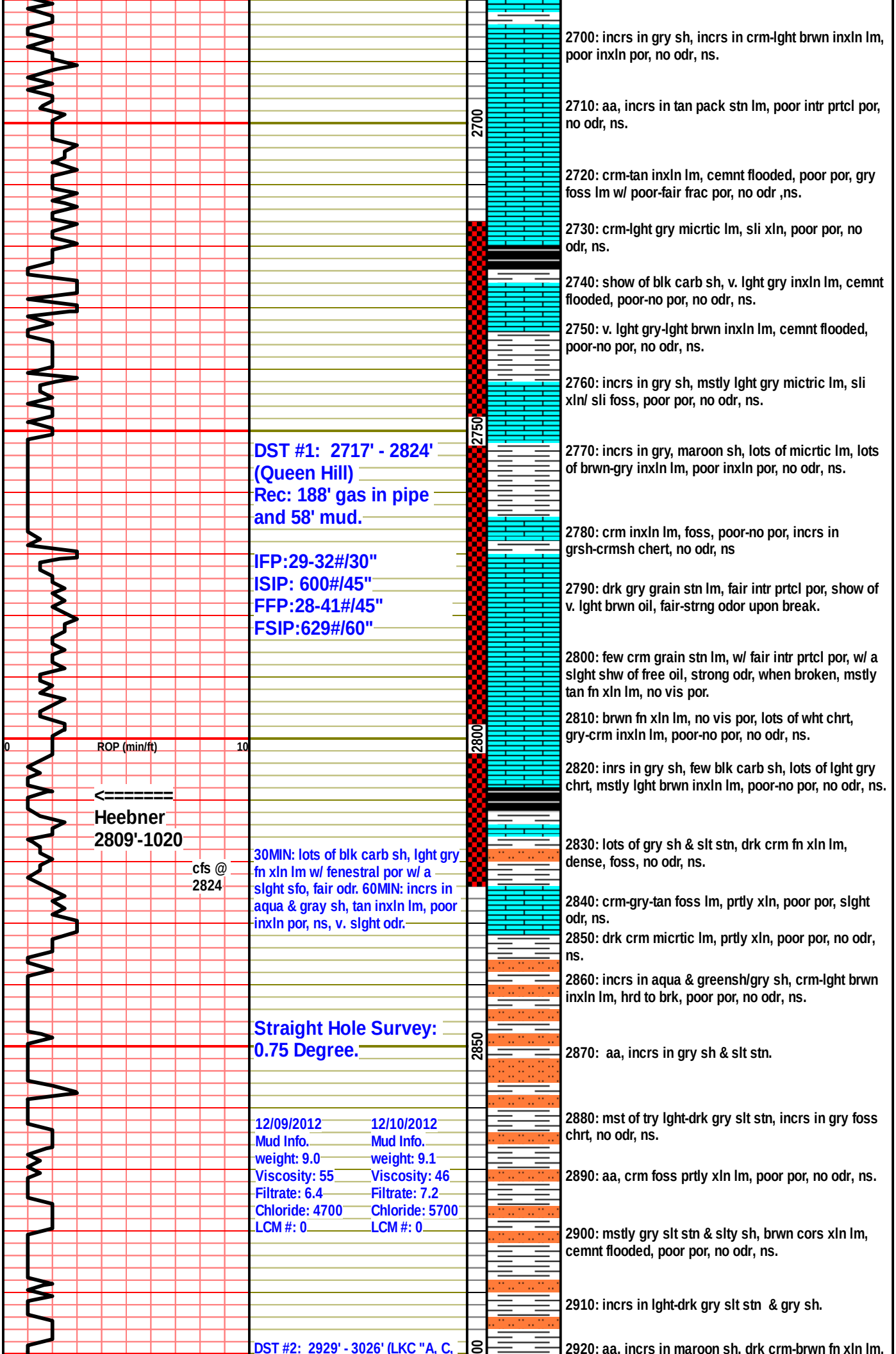
2650: lght gry micrtic lm, sli xln, foss, poor por, no odr, ns.

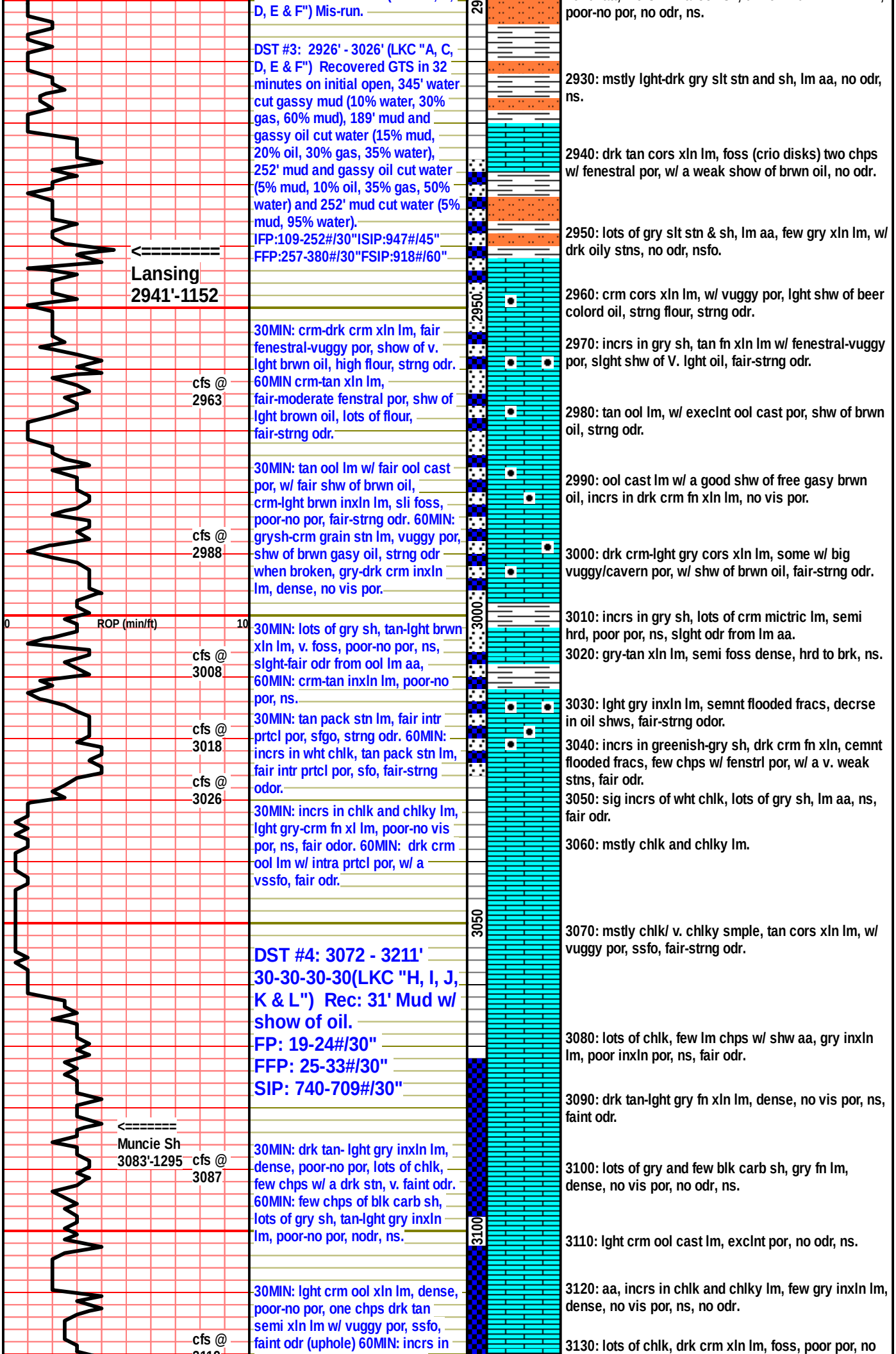
2660: crm-lght tan xln lm, fair-poor por, no odr, ns.

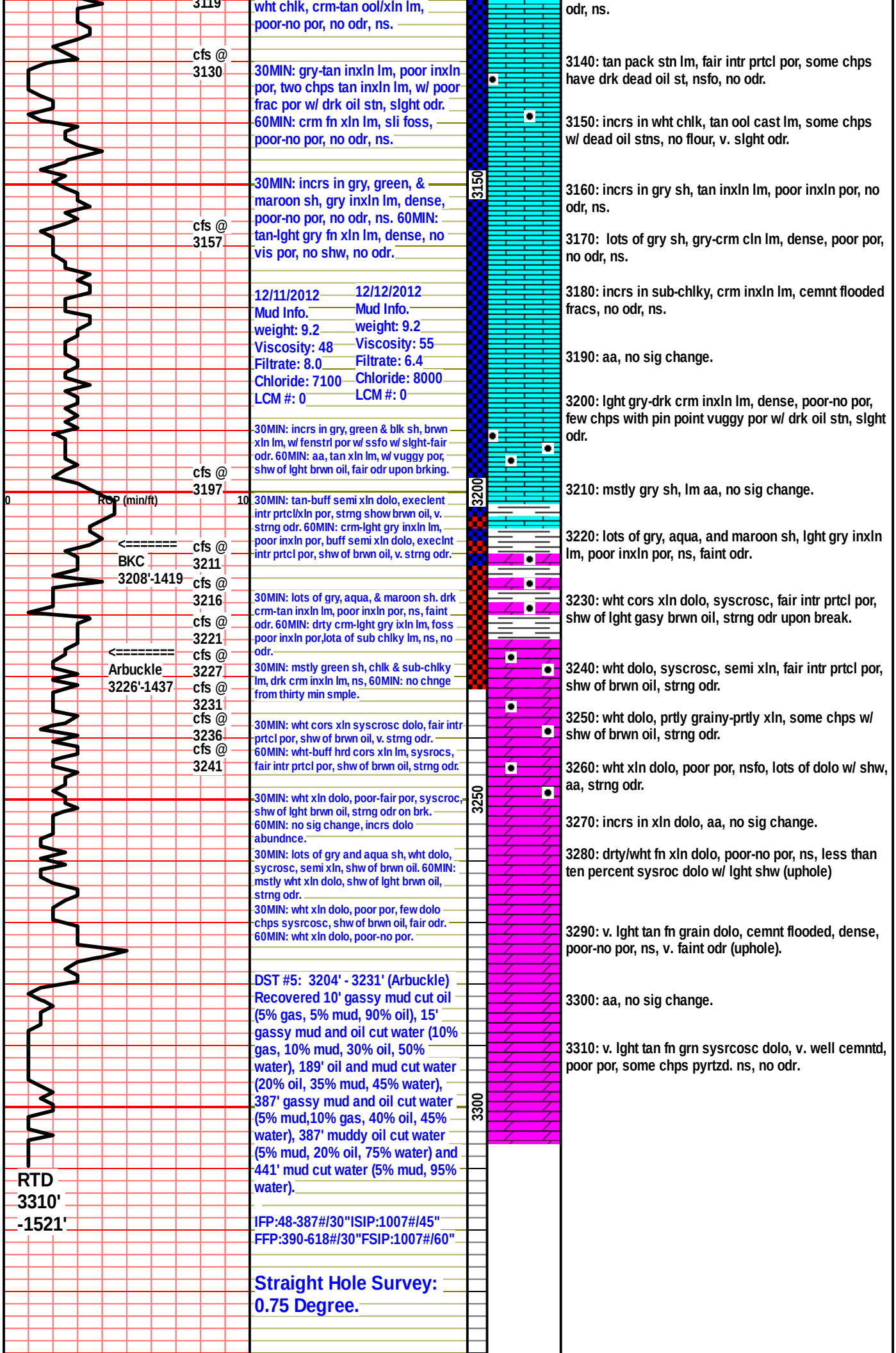
2670: show of blk carb sh,

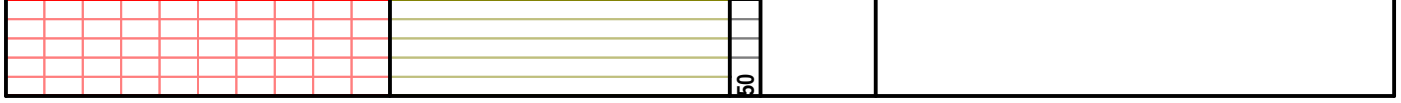
2680: gry inxln lm, cemnt flooded, foss, poor-no por, no odr, ns.

2690: incrs in wht chlk, gry fn xln lm, sli foss, no vis por, no odr, ns.


0
ROP (min/ft)
10
2700
2750
2800
2850
<=======
Heebner
2809'-1020
cfs @
2824
DST #1: 2717' - 2824'
(Queen Hill)
Rec: 188' gas in pipe
and 58' mud.
IFP:29-32#/30"
ISIP: 600#/45"
FFP:28-41#/45"
FSIP:629#/60"
30MIN: lots of blk carb sh, lght gry fn xln lm w/ fenestral por w/ a slght sfo, fair odr. 60MIN: incrs in aqua & gray sh, tan inxln lm, poor inxln por, ns, v. slght odr.
Straight Hole Survey:
0.75 Degree.
12/09/2012
Mud Info.
weight: 9.0
Viscosity: 55
Filtrate: 6.4
Chloride: 4700
LCM #: 0
12/10/2012
Mud Info.
weight: 9.1
Viscosity: 46
Filtrate: 7.2
Chloride: 5700
LCM #: 0
DST #2: 2929' - 3026' (LKC "A, C,
2700: incrs in gry sh, incrs in crm-lght brwn inxln lm, poor inxln por, no odr, ns.
2710: aa, incrs in tan pack stn lm, poor intr prtcl por, no odr, ns.
2720: crm-tan inxln lm, cemnt flooded, poor por, gry foss lm w/ poor-fair frac por, no odr ,ns.
2730: crm-lght gry micrtic lm, sli xln, poor por, no odr, ns.
2740: show of blk carb sh, v. lght gry inxln lm, cemnt flooded, poor-no por, no odr, ns.
2750: v. lght gry-lght brwn inxln lm, cemnt flooded, poor-no por, no odr, ns.
2760: incrs in gry sh, mstly lght gry mictric lm, sli xln/ sli foss, poor por, no odr, ns.
2770: incrs in gry, maroon sh, lots of micrtic lm, lots of brwn-gry inxln lm, poor inxln por, no odr, ns.
2780: crm inxln lm, foss, poor-no por, incrs in grsh-crmsh chert, no odr, ns
2790: drk gry grain stn lm, fair intr prtcl por, show of v. lght brwn oil, fair-strng odor upon break.
2800: few crm grain stn lm, w/ fair intr prtcl por, w/ a slght shw of free oil, strong odr, when broken, mstly tan fn xln lm, no vis por.
2810: brwn fn xln lm, no vis por, lots of wht chrt, gry-crm inxln lm, poor-no por, no odr, ns.
2820: inrs in gry sh, few blk carb sh, lots of lght gry chrt, mstly lght brwn inxln lm, poor-no por, no odr, ns.
2830: lots of gry sh & slt stn, drk crm fn xln lm, dense, foss, no odr, ns.
2840: crm-gry-tan foss lm, prtly xln, poor por, slght odr, ns.
2850: drk crm micrtic lm, prtly xln, poor por, no odr, ns.
2860: incrs in aqua & greensh/gry sh, crm-lght brwn inxln lm, hrd to brk, poor por, no odr, ns.
2870: aa, incrs in gry sh & slt stn.
2880: mst of try lght-drk gry slt stn, incrs in gry foss chrt, no odr, ns.
2890: aa, crm foss prtly xln lm, poor por, no odr, ns.
2900: mstly gry slt stn & slty sh, brwn cors xln lm, cemnt flooded, poor por, no odr, ns.
2910: incrs in lght-drk gry slt stn & gry sh.
2920: aa, incrs in maroon sh, drk crm-brwn fn xln lm,


D, E & F") Mis-run.
DST #3: 2926' - 3026' (LKC "A, C, D, E & F") Recovered GTS in 32 minutes on initial open, 345' water cut gassy mud (10% water, 30% gas, 60% mud), 189' mud and gassy oil cut water (15% mud, 20% oil, 30% gas, 35% water), 252' mud and gassy oil cut water (5% mud, 10% oil, 35% gas, 50% water) and 252' mud cut water (5% mud, 95% water).
IFP:109-252#/30"ISIP:947#/45"
FFP:257-380#/30"FSIP:918#/60"
<========
Lansing
2941'-1152
30MIN: crm-drk crm xln lm, fair fenestral-vuggy por, show of v. lght brwn oil, high flour, strng odr.
60MIN crm-tan xln lm, fair-moderate fenstral por, shw of lght brown oil, lots of flour, fair-strng odr.
cfs @ 2963
30MIN: tan ool lm w/ fair ool cast por, w/ fair shw of brwn oil, crm-lght brwn inxln lm, sli foss, poor-no por, fair-strng odr. 60MIN: grysh-crm grain stn lm, vuggy por, shw of brwn gasy oil, strng odr when broken, gry-drk crm inxln lm, dense, no vis por.
cfs @ 2988
0
ROP (min/ft)
10
30MIN: lots of gry sh, tan-lght brwn xln lm, v. foss, poor-no por, ns, slght-fair odr from ool lm aa, 60MIN: crm-tan inxln lm, poor-no por, ns.
cfs @ 3008
30MIN: tan pack stn lm, fair intr prtcl por, sfgo, strng odr. 60MIN: incrs in wht chlk, tan pack stn lm, fair intr prtcl por, sfo, fair-strng odor.
cfs @ 3018
cfs @ 3026
30MIN: incrs in chlk and chlky lm, lght gry-crm fn xl lm, poor-no vis por, ns, fair odor. 60MIN: drk crm ool lm w/ intra prtcl por, w/ a vssfo, fair odr.
DST #4: 3072 - 3211'
30-30-30-30(LKC "H, I, J, K & L") Rec: 31' Mud w/ show of oil.
FP: 19-24#/30"
FFP: 25-33#/30"
SIP: 740-709#/30"
<=======
Muncie Sh
3083'-1295
30MIN: drk tan- lght gry inxln lm, dense, poor-no por, lots of chlk, few chps w/ a drk stn, v. faint odr. 60MIN: few chps of blk carb sh, lots of gry sh, tan-lght gry inxln lm, poor-no por, nodr, ns.
cfs @ 3087
30MIN: lght crm ool xln lm, dense, poor-no por, one chps drk tan semi xln lm w/ vuggy por, ssfo, faint odr (uphole) 60MIN: incrs in
cfs @
2950
3000
3050
3100
poor-no por, no odr, ns.
2930: mstly lght-drk gry slt stn and sh, lm aa, no odr, ns.
2940: drk tan cors xln lm, foss (crio disks) two chps w/ fenestral por, w/ a weak show of brwn oil, no odr.
2950: lots of gry slt stn & sh, lm aa, few gry xln lm, w/ drk oily stns, no odr, nsfo.
2960: crm cors xln lm, w/ vuggy por, lght shw of beer colord oil, strng flour, strng odr.
2970: incrs in gry sh, tan fn xln lm w/ fenestral-vuggy por, slght shw of V. lght oil, fair-strng odr.
2980: tan ool lm, w/ execlnt ool cast por, shw of brwn oil, strng odr.
2990: ool cast lm w/ a good shw of free gasy brwn oil, incrs in drk crm fn xln lm, no vis por.
3000: drk crm-lght gry cors xln lm, some w/ big vuggy/cavern por, w/ shw of brwn oil, fair-strng odr.
3010: incrs in gry sh, lots of crm mictric lm, semi hrd, poor por, ns, slght odr from lm aa.
3020: gry-tan xln lm, semi foss dense, hrd to brk, ns.
3030: lght gry inxln lm, semnt flooded fracs, decrse in oil shws, fair-strng odor.
3040: incrs in greenish-gry sh, drk crm fn xln, cemnt flooded fracs, few chps w/ fenstrl por, w/ a v. weak stns, fair odr.
3050: sig incrs of wht chlk, lots of gry sh, lm aa, ns, fair odr.
3060: mstly chlk and chlky lm.
3070: mstly chlk/ v. chlky smple, tan cors xln lm, w/ vuggy por, ssfo, fair-strng odr.
3080: lots of chlk, few lm chps w/ shw aa, gry inxln lm, poor inxln por, ns, fair odr.
3090: drk tan-lght gry fn xln lm, dense, no vis por, ns, faint odr.
3100: lots of gry and few blk carb sh, gry fn lm, dense, no vis por, no odr, ns.
3110: lght crm ool cast lm, exclnt por, no odr, ns.
3120: aa, incrs in chlk and chlky lm, few gry inxln lm, dense, no vis por, ns, no odr.
3130: lots of chlk, drk crm xln lm, foss, poor por, no


3119
wht chlk, crm-tan ool/xln lm, poor-no por, no odr, ns.
cfs @ 3130
30MIN: gry-tan inxln lm, poor inxln por, two chps tan inxln lm, w/ poor frac por w/ drk oil stn, slght odr. 60MIN: crm fn xln lm, sli foss, poor-no por, no odr, ns.
30MIN: incrs in gry, green, & maroon sh, gry inxln lm, dense, poor-no por, no odr, ns. 60MIN: tan-lght gry fn xln lm, dense, no vis por, no shw, no odr.
cfs @ 3157
12/11/2012
Mud Info.
weight: 9.2
Viscosity: 48
Filtrate: 8.0
Chloride: 7100
LCM #: 0
12/12/2012
Mud Info.
weight: 9.2
Viscosity: 55
Filtrate: 6.4
Chloride: 8000
LCM #: 0
30MIN: incrs in gry, green & blk sh, brwn xln lm, w/ fenstrl por w/ ssfo w/ slght-fair odr. 60MIN: aa, tan xln lm, w/ vuggy por, shw of lght brwn oil, fair odr upon brking.
cfs @ 3197
0
ROP (min/ft)
10
30MIN: tan-buff semi xln dolo, execlent intr prtcl/xln por, strng show brwn oil, v. strng odr. 60MIN: crm-lght gry inxln lm, poor inxln por, buff semi xln dolo, execlnt intr prtcl por, shw of brwn oil, v. strng odr.
<======= BKC 3208'-1419
cfs @ 3211
cfs @ 3216
30MIN: lots of gry, aqua, & maroon sh. drk crm-tan inxln lm, poor inxln por, ns, faint odr. 60MIN: drty crm-lght gry ixln lm, foss poor inxln por,lota of sub chlky lm, ns, no odr.
cfs @ 3221
<======== Arbuckle 3226'-1437
cfs @ 3227
30MIN: mstly green sh, chlk & sub-chlky lm, drk crm inxln lm, ns, 60MIN: no chnge from thirty min smple.
cfs @ 3231
cfs @ 3236
30MIN: wht cors xln syscrosc dolo, fair intr prtcl por, shw of brwn oil, v. strng odr.
cfs @ 3241
60MIN: wht-buff hrd cors xln lm, sysrocs, fair intr prtcl por, shw of brwn oil, strng odr.
30MIN: wht xln dolo, poor-fair por, syscroc, shw of lght brwn oil, strng odr on brk. 60MIN: no sig change, incrs dolo abundnce.
30MIN: lots of gry and aqua sh, wht dolo, sycrosc, semi xln, shw of brwn oil. 60MIN: mstly wht xln dolo, shw of lght brwn oil, strng odr.
30MIN: wht xln dolo, poor por, few dolo chps sysrcosc, shw of brwn oil, fair odr. 60MIN: wht xln dolo, poor-no por.
DST #5: 3204' - 3231' (Arbuckle) Recovered 10' gassy mud cut oil (5% gas, 5% mud, 90% oil), 15' gassy mud and oil cut water (10% gas, 10% mud, 30% oil, 50% water), 189' oil and mud cut water (20% oil, 35% mud, 45% water), 387' gassy mud and oil cut water (5% mud,10% gas, 40% oil, 45% water), 387' muddy oil cut water (5% mud, 20% oil, 75% water) and 441' mud cut water (5% mud, 95% water).
IFP:48-387#/30"ISIP:1007#/45"
FFP:390-618#/30"FSIP:1007#/60"
Straight Hole Survey: 0.75 Degree.
RTD 3310' -1521'
3150
3200
3250
3300
odr, ns.
3140: tan pack stn lm, fair intr prtcl por, some chps have drk dead oil st, nsfo, no odr.
3150: incrs in wht chlk, tan ool cast lm, some chps w/ dead oil stns, no flour, v. slght odr.
3160: incrs in gry sh, tan inxln lm, poor inxln por, no odr, ns.
3170: lots of gry sh, gry-crm cln lm, dense, poor por, no odr, ns.
3180: incrs in sub-chlky, crm inxln lm, cemnt flooded fracs, no odr, ns.
3190: aa, no sig change.
3200: lght gry-drk crm inxln lm, dense, poor-no por, few chps with pin point vuggy por w/ drk oil stn, slght odr.
3210: mstly gry sh, lm aa, no sig change.
3220: lots of gry, aqua, and maroon sh, lght gry inxln lm, poor inxln por, ns, faint odr.
3230: wht cors xln dolo, syscrosc, fair intr prtcl por, shw of lght gasy brwn oil, strng odr upon break.
3240: wht dolo, syscrosc, semi xln, fair intr prtcl por, shw of brwn oil, strng odr.
3250: wht dolo, prtly grainy-prtly xln, some chps w/ shw of brwn oil, strng odr.
3260: wht xln dolo, poor por, nsfo, lots of dolo w/ shw, aa, strng odr.
3270: incrs in xln dolo, aa, no sig change.
3280: drty/wht fn xln dolo, poor-no por, ns, less than ten percent sysroc dolo w/ lght shw (uphole)
3290: v. lght tan fn grain dolo, cemnt flooded, dense, poor-no por, ns, v. faint odr (uphole).
3300: aa, no sig change.
3310: v. lght tan fn grn sysrcosc dolo, v. well cemntd, poor por, some chps pyrtzd. ns, no odr.


50