

GEOLOGIC REPORT

DAVID J. GOLDAK

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

Well Name: LPR #1-17
Location: Section 17 - T15S - R33W
License Number: API: 15-109-21146
Spud Date: 12 / 11 / 2012
Surface Coordinates: 1230' FSL and 1748' FEL
Approx. E/2 - W/2 - SE

Region: Logan Co., KS
Drilling Completed: 01 / 07 / 2013

Bottom Hole
Coordinates:
Ground Elevation (ft): 2944' K.B. Elevation (ft): 2951'
Logged Interval (ft): 3400' To: 4685' Total Depth (ft): 4685'
Formation: Mississippian
Type of Drilling Fluid: Chemical - Mud Co

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

OPERATOR

Company: Stelbar Oil Corporation
Address: 1625 N. Waterfront Pkwy, Suite 200
Wichita, Kansas 67206-6602

GEOLOGIST

Name: David J. Goldak
Company: D. J. GOLDAK, INC.
Address: 155 N. Market, Suite 710
Wichita, Kansas 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ-L116	4-14s	308	308	5.25
2	7-7/8	JZ- ? -PDC	6-13s	3347	3039	56.75
3	7-7/8	JZ-HA25TL	3-14s	4685	1338	70.25

SURVEYS: 308'=0.25, 1380'=0.50, 2380'=0.25, 3347'=1.0,
4125'=0.75, 4304'=0.75, 4685'=0.25

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 36,000-38,000 lbs. on bit and 70-75 RPM.
Running 8 stands of collars (6.25"x2.25"): 496.62'
Pumping 62 S/M, 7.56 B/M, and 1050 psi at standpipe.

Daily Status

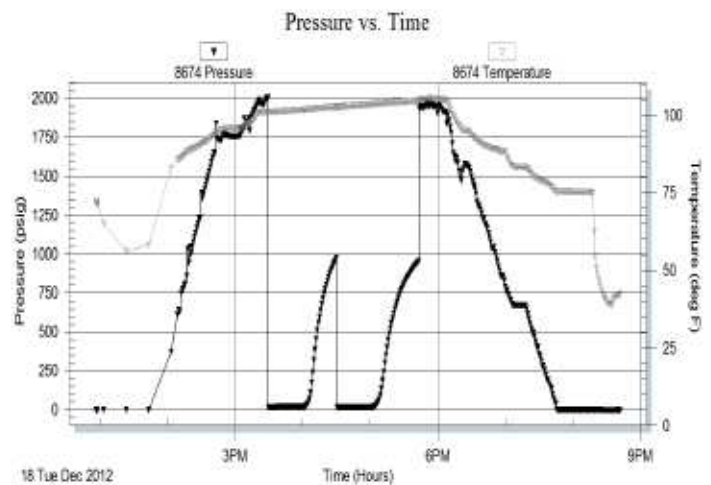
12/11/12 - Spud at 2:00 PM; Set 8-5/8" surface csg. @ 303'
 12/12/12 - 308' WOC
 12/13/12 - 1,090' Drilling
 12/14/12 - 2,208' Drilling
 12/15/12 - 2,880' Drilling; Lost circ. @ 2,879
 12/16/12 - 3,347' TIH with new bit; Lost circ; Displace @ 3,535'
 12/17/12 - 3,750' Pump repair
 12/18/12 - 4,125' CFS; DST #1 @ 4,125'
 12/19/12 - 4,175' Drilling; TOH @ 4,253' for holidays
 12/20/12-01/01/13 - 4,253' Down for Christmas & New Year
 01/02/13 - 4,253' Prep to TIH; Reaming & Lost circ. while TIH
 01/03/13 - 4,253' TIH / Circ
 01/04/13 - 4,304' TIH with DST #2
 01/05/13 - 4,405' Drilling; DST #3 @ 4,463'
 01/06/13 - 4,498' Drilling; RTD 4,685' @ 11:30 PM
 01/07/13 - 4,685' Logging

DST #1: 4,107' - 4,125' (LKC I) 30" - 30" - 30" - 30"

IF: Weak surface blow, building to 0.25 inches
 ISI: No blow back
 FF: No blow
 FSI: No blow back

RECOVERY: 4' Total Fluid, consisting of:
 4' Mud (100% M)
 Sampler: 2000 ml Mud @ 100 psi

SIP: 974-954; FP: 16-20, 17-17; HP: 2003-1935;
 BHT: 103



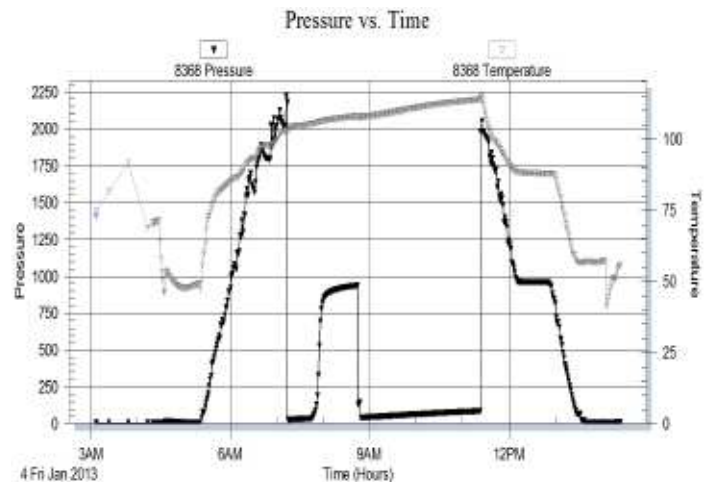
DST #2: 4,270' - 4,304' (Marmaton) 30" - 60" - 60" - 90"

IF: Weak blow, building to 2.25 inches
 ISI: No blow back
 FF: Weak blow, building to 7.5 inches
 FSI: Weak surface blow back in 11 minutes

RECOVERY: 175' GIP & 125' Total Fluid, consisting of:
 35' SG&MCO (5% G, 85% O, 10% M)
 90' GMCO (10% G, 55% O, 35% M)
 Sampler: 0.2 CFG, 1200 ml Oil & 800 ml Mud @ 30 psi

SIP: 939-NA; FP: 28-35, 37-58; HP: 2186-1981;
 BHT: 114

FSIP not recorded due to mechanical malfunction

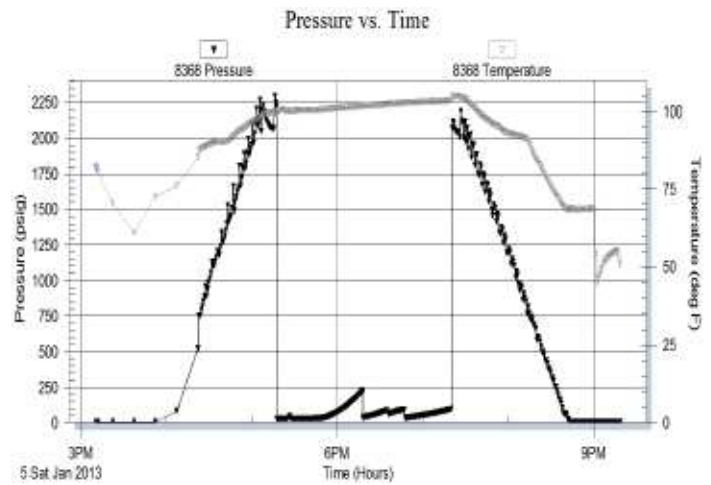


DST #3: 4,312' - 4,463' (Marmaton-Cherokee)
30" - 30" - 30" - 30"

IF: Weak 0.25 inch blow, died in 18 minutes
ISI: No blow back
FF: No blow
FSI: No blow back

RECOVERY: 5' Total Fluid, consisting of:
5' Mud (100% M)
Sampler: 2000 ml Mud @ 0 psi

SIP: 224-98; FP: 28-31, 34-33; HP: 2221-2119;
BHT: 105
Minor plugging during FF period.



ROCK TYPES

Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol

Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol

Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh

Sandylms
Shale
Sltstn
Shlyslts
Slttysh
Lms

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
Chlorite
Dol
Sand
Sltty

FOSSIL
Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram

Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom
Fuss
Oomold

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

OTHER SYMBOLS

INTERVALS

- Core
- Dst
- Dst_1_t
- Dst_1_b
- Dst

EVENTS

- Rft
- Sidewall

Conn

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

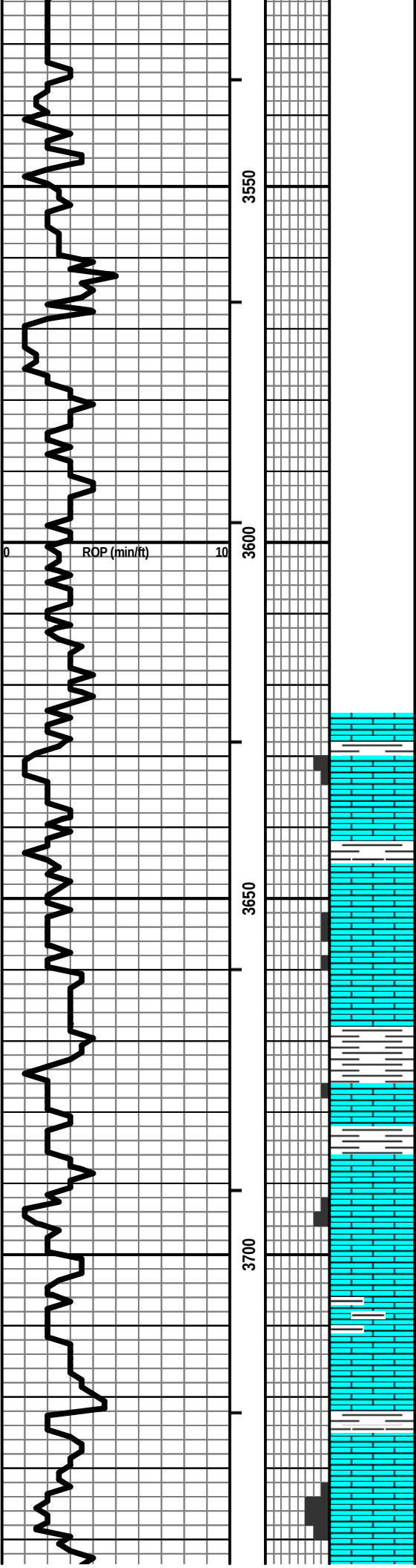
- Rounded
- Subrnd

Subang
Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

Curve Track 1 ROP (min/ft)		Depth	Porosity	Lithology	Geological Descriptions	Remarks
			24% 18% 12% 6%			
0 ROP (min/ft) 10		3400				LOST CIRC. @ 2879'; LOST APPROX. 200 BBL. LOST CIRC. WHILE TIH @ 3347'; APPROX. 140 BBL. DRLG WITH BIT #3: 7-7/8" CONV NEW JZ-HA25TL; JETS: 14-14-14
0 ROP (min/ft) 10		3450				
		3500				STOTLER 3471 (-520)



DISPLACE MUD SYSTEM @ 3,535'

Vis: 83, Wt: 8.3, LCM: 3#

LS - GY / CRM / TAN, VF / F XLN, FOSS IN PT, SCAT P / F
INTXLN POR, CHKY IN PT, PRED DNS, NS

LS - CRM / TAN / GY / SCAT WHT, MOT IN PT, VF / F XLN,
FOSS IN PT, TR P / F INTXLN POR, PRED DNS, NS

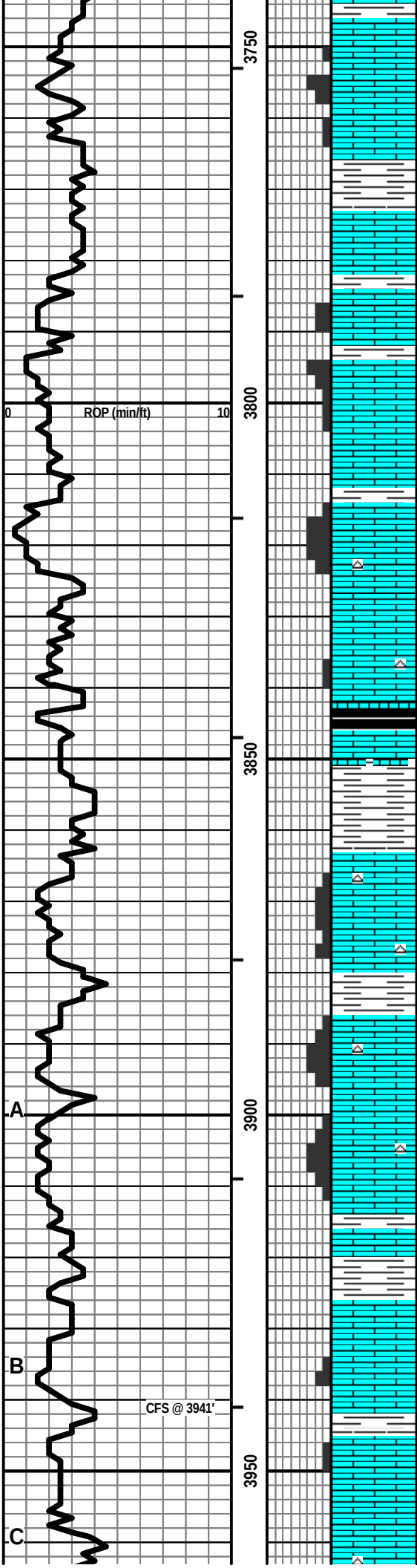
LS- CRM / TAN, F / SCAT M XLN, FOSS, SCAT OOL, SCAT P
INTXLN + PPT POR, PRED DNS, NS W/ SH - MED / DK GY

LS - CRM / TAN, F XLN,FOSS, F VUG + INTXLN POR, NS

LS - CRM / TAN, F XLN, FOSS, CHKY IN PT, PRED DNS, NS

LS - CRM / TAN, VF / F XLN, FOSS, F / SCAT G INTXLN + PPT
/ VUG POR, SCAT CHKY, NS

Vis: 54, Wt: 8.6, YP: 21,
GelS: 14/39, pH: 11.0, WL: 7.2,
Chl: 2,800, Sol: 2.2, LCM: 1#



LS - CRM / TAN / GY, MOT IN PT, VF / F XLN, FOSS IN PT, P / G INTXLN + PPT POR, TR MOLDIC POR, NS

LS - TAN / CRM, VF / F XLN, SL FOSS, CHKY IN PT, PRED DNS, NS

LS - CRM / TAN, F XLN, FOSS, SCAT OOL, F / G INTXLN + MOLDIC POR, NS, GRADING TO DNS / CHKY IN PT

LS - CRM / LT GY / TAN, VF / F XLN, FOSS, OOL IN PT, F / G VUG + FOSSMOLD POR, NS, GRADING TO PRED DNS / TR P INTXLN POR W/ SCAT CHT - WHT / LT GY

SH - BLK / GY, CARB IN PT W/ LS - TAN, VF / F XLN, FOSS IN PT, PRED DNS, NS

LS - CRM / WHT / SCAT TAN, PRED F XLN, FOSS, P / F VUG + PPT POR, PRED P INTXLN POR, NS, NO ODOR, NO STN W/ SCAT CHT - WHT / LT GY

LS - CRM / TAN / SCAT WHT, F XLN, OOL, FOSS IN PT, F / G INTPART POR, SCAT PPT + VUG POR, SCAT UNCONS OOL, NS, NO ODOR, NO STN W/ SCAT CHT - WHT / LT GY

LS - AS ABOVE, DNS / SCAT CHKY IN PT, NS, NO ODOR, NO STN W/ SCAT CHT - WHT / LT GY W/ SH - GY / GRN

LS - CRM / WHT, F / SCAT M XLN, FOSS, F INTXLN + MOLDIC POR, TR VUG POR, S / SCAT F SFO, FT ODOR, SPTY / TR SAT STN

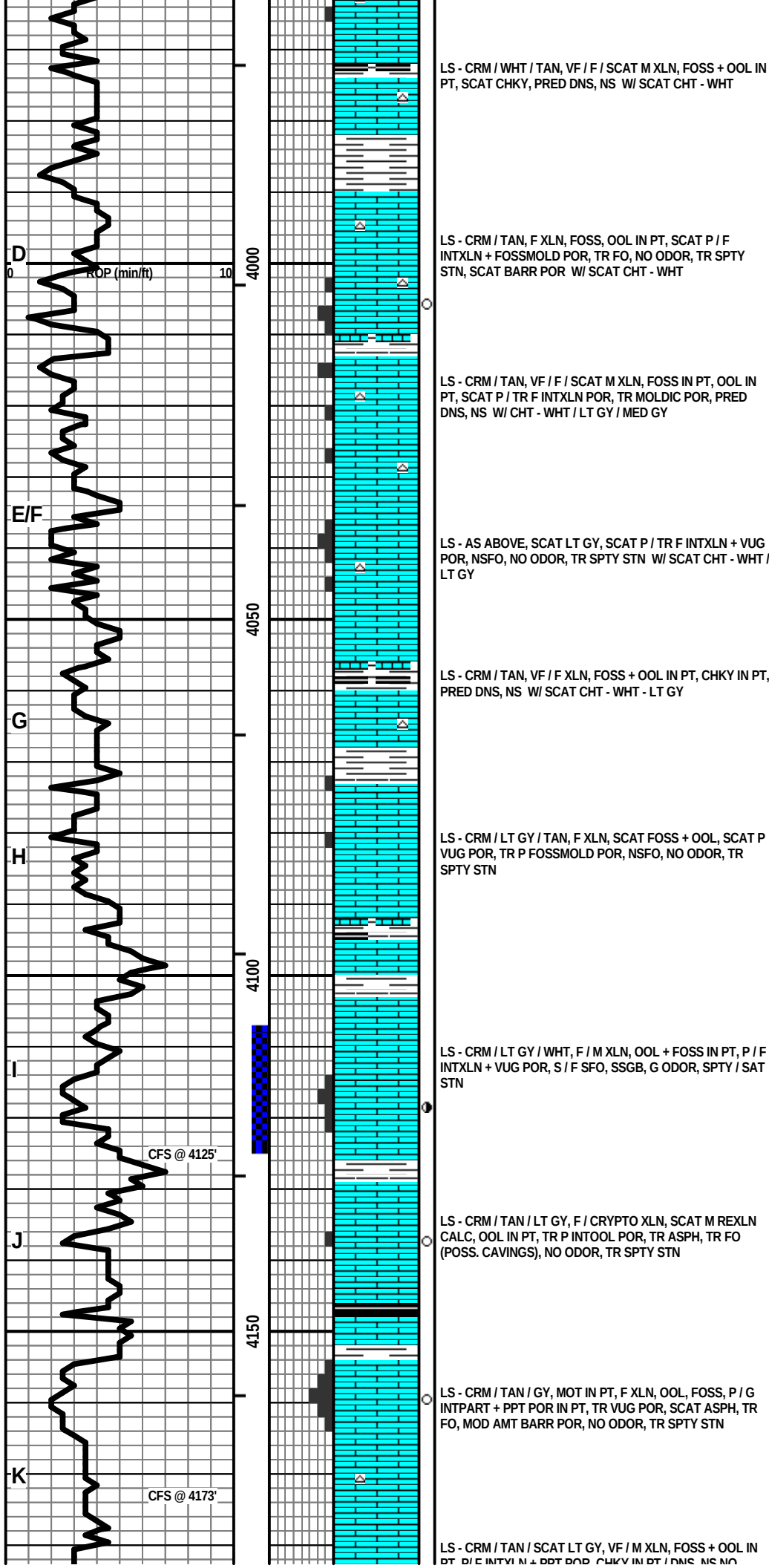
LS - CRM / TAN, SCAT LT GY / WHT, F XLN, FOSS, OOL IN PT, SCAT P INTXLN POR, PRED DNS, NSFO, NO ODOR, TR SPTY BLK STN

HEEBNER 3843 (-892)

TORONTO 3863 (-912)

Vis: 52, Wt: 8.7, LCM: 1#

LANSING 3886 (-935)



MUNCIE CREEK 4057 (-1106)

DST #1: 4107'-4125' (LKC I)
30" - 30" - 30" - 30"

IF: Weak surface blow, bldg to 1/4 inch.
ISI: No blow back
FF: No blow
FSI: No blow back

RECOVERY: 4' Total Fluid:
4' Mud (100% M)
Sampler: 2000 ml Mud @ 100 psi

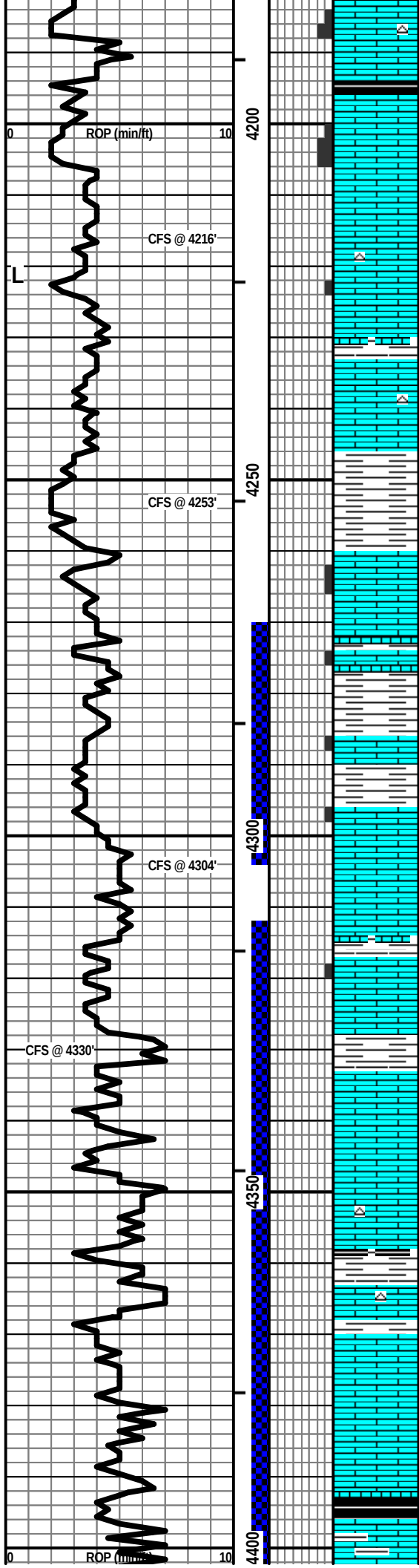
SIP: 974-954 HP: 2003-1935
FP: 16-20, 17-17 BHT: 103

Vis: 49, Wt: 9.2, YP: 18,
GelS: 14/35, pH: 10.0, WL: 8.8,
Chl: 3,000, Sol: 6.3, LCM: 1#

PIPE STRAP @ 4,125': LONG 1.28'

STARK SHALE 4146 (-1195)

Vis: 53, Wt: 9.1, YP: 19,
GelS: 14/38, pH: 10.0, WL: 8.0,
Chl: 4,100, Sol: 5.4, LCM: 1#



PT, F / INTXLN / PT / POR, CHKY IN PT / DNS, NS NO
ODOR W/ SCAT CHT - WHT / LT GY

LS - CRM / TAN, F XLN, OOL + FOSS IN PT, P / F INTXLN +
VUG POR IN PT, SUBCHKY IN PT, SCAT ASPH, VSSFO, MOD
AMT BARR POR, NO ODOR, SCAT SPTY STN

LS - CRM / TAN / LT GY, VF / F XLN, SCAT M REXLN CALC,
FOSS IN PT, SCAT OOL, TR P INTXLN POR, PRED DNS, NS,
NO ODOR W/ SCAT CHT - LT GY / WHT

LS - CRM / TAN, F / CRYPTO XLN, SCAT M REXLN CALC,
FOSS + OOL IN PT, PRED DNS, NS, NO ODOR W/ SCAT
CHT - LT GY / WHT

LS - AS ABOVE W/ SH - GY / GRN / RED

LS - CRM / TAN / LT GY, F / M XLN, FOSS IN PT, TR OOL,
PRED P / TR F INTXLN + VUG POR, SSFO, V FT ODOR,
SCAT SPTY STN

SH - MED / DK GY W/ LS - CRM / TAN / SCAT LT GY, MOT IN
PT, F / SCAT M XLN, FOSS IN PT, TR P INTXLN POR, SSFO
IN PT, NO ODOR, TR SPTY STN

SH - MED / DK GY W/ LS - CRM / TAN / LT GY, VF / SCAT M
XLN, FOSS IN PT, TR P / F INTXLN + VUG POR, SSFO, NO
ODOR, TR SPTY STN (POSS CAVINGS)

LS - AS ABOVE, PRED DNS, NS, NO ODR

LS - CRM / GY / SCAT TAN, F / SCAT M XLN, FOSS, SCAT
OOL, CHKY IN PT, TR P INTXLN POR, PRED DNS, TR SPTY
STN, NSFO, NO ODOR

LS - CRM / LT GY / TAN, MOT IN PT, VF / F XLN, FOSS, PRED
DNS, NS

LS - AS ABOVE, PRED DNS, NS W/ SCAT CHT - LT GY /
WHT W/ SH - GY / BLK, CARB IN PT

LS - CRM / TAN, VF / F XLN, SL FOSS, PRED DNS, NS

LS - CRM / TAN / SCAT WHT, VF / F XLN, FOSS IN PT, SCAT
P INTXLN POR, PRED DNS, SCAT SPTY STN, NSFO, NO

BASE OF KC 4246 (-1295)

TRIP OUT INTO SURFACE PIPE @ 4,253',
12/19/12 AND SHUT DOWN FOR HOLIDAYS

01/03/13 CIRC ON BOTTOM:
Vis: 48, Wt: 8.9, YP: 17,
GelS: 11/30, pH: 9.5, WL: 9.6,
Chl: 6,200, Sol: 4.0, LCM: 3#

MARMATON 4274 (-1323)

Vis: 57, Wt: 9.0, YP: 18,
GelS: 13/40, pH: 10.0, WL: 9.6,
Chl: 7,000, Sol: 4.8, LCM: 3#

ALTAMONT 4317 (-1366)

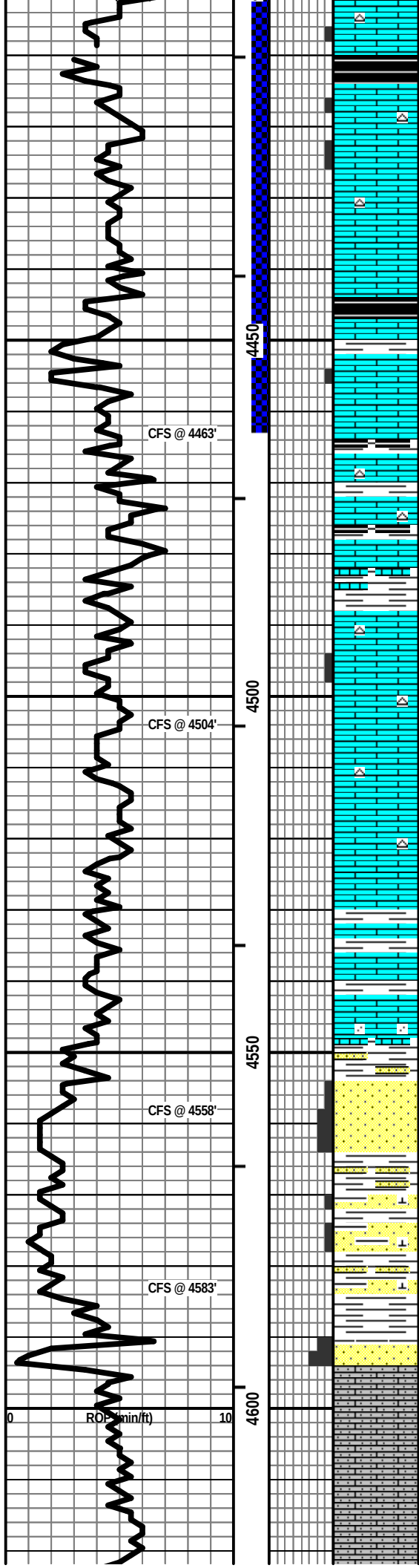
DST #2: 4270'-4304' (Marmaton)
30" - 60" - 60" - 90"

IF: Weak blow, building to 2.25 inches
ISI: No blow back
FF: Weak blow, building to 7.5 inches
FSI: Weak surface blow back in 11 min.

RECOVERY: 175' GIP & 125' Total Fluid:
35' SG&MCO (5% G, 85% O, 10% M)
90' GMCO (10% G, 55% O, 35% M)
Sampler: 0.2 CFG, 1200 ml O & 800 ml M

SIP: 939-NA HP: 2186-1981
FP: 28-35, 37-58 BHT: 114

FSIP not recorded due to mechanical
malfunction



ODOR W/ SCAT CHT - GY W/ SH - DK GY / BLK, CARB

LS - CRM / TAN / SCAT BRN, VF / F XLN, OOL IN PT, FOSS IN PT, SCAT P INTXLN, TR P INTOOL POR, PRED DNS, VSSFO, FT ODOR, SCAT SPTY STN, W/ SCAT CHT - LT GY

LS - AS ABOVE, PRED, DNS, NS

LS - CRM / TAN, VF / F XLN, OOL + FOOS IN PT, SCAT P INTXLN POR, CHKY IN PT, VSSFO, NO ODOR, TR SPTY STN

LS - TAN / BRN / GY, VF / F XLN, SL FOSS, PRED DNS, NS W/ SCAT CHT - GY W/ SH - GY / BLK, CARB IN PT

LS - CRM / TAN, PRED F XLN, SCAT M / C XLN, FOSS, CHTY IN PT, SCAT P / TR F INTXLN + PPT POR, TR P VUG POR, SSFO, FT ODOR, SCAT SPTY STN

LS - TAN / BRN / SCAT CRM, VF / F XLN, SL FOSS, PRED DNS, NS W/ CHT - GY / TAN / BRN

LS - TAN / CRM / SCAT BRN, VF / F XLN, SCAT CRYPTO XLN, SL FOSS, PRED DNS, NS W/ SCAT CHT - AA W/ SH - GY / GRN / BLK

LS - GY / TAN, VF / F XLN, SL FOSS, SCAT AREN, PRED DNS, NS W/ SCAT SH - GY / GRN, SLTY IN PT W/ SS - LT GY, VF / SCAT F QTZ GR, W SRTD, SA / SR, CALC CEM, MIC IN PT, SCAT CHL, P / F INTGR POR, NS, NO ODOR

SS - AS ABOVE, F INTGR POR IN PT, NS

SS - AS ABOVE, NS W/ SCAT SS - LT GY, VF / M QTZ GR, F SRTG, SA / R, CALC CEM, SCAT LS FRAG, SCAT GLAUC, P / F INTGR POR, ARGIL IN PT, NS

SS - LT GY, PRED F / M QTZ GR, SCAT C GR, F / P SRTD, R / WR, CALC CEM, SCAT GLAUC, F / G INTGR POR, NS W/ LS - WHT / CRM / GY, VF XLN, AREN, VF QTZ GR, SCAT OOL, SUBCHKY / DNS, NS

LS - WHT / CRM / GY, VF XLN, AREN, VF QTZ GR, SCAT OOL, SUBCHKY / DNS, NS

CHEROKEE SH 4410 (-1459)

Vis: 61, Wt: 9.1, YP: 24,
GelS: 13/40, pH: 10.0, WL: 10.4,
Chl: 8,000, Sol: 5.3, LCM: 3#

DST #3: 4312'-4463' (Altamont-Cherokee)
30" - 30" - 30" - 30"

IF: Weak 0.25 inch blow, died in 18 min.
ISI: No blow back
FF: No blow
FSI: No blow back

RECOVERY: 5' Total Fluid:
4' Mud (100% M)
Sampler: 2000 ml Mud @ 0 psi

SIP: 224-98 HP: 2221-2119
FP: 28-31, 34-33 BHT: 105

Minor plugging during FF period.

JOHNSON ZONE 4488(-1537)

Vis: 64, Wt: 9.0, YP: 21,
GelS: 16/40, pH: 10.5, WL: 10.4,
Chl: 8,800, Sol: 5.0, LCM: 3#

MISS. ST GEN 4594 (-1643)

