

GEOLOGIC REPORT

DAVID J. GOLDAK

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

Well Name: Schroder #1-14
Location: Section 14 - T17S - R33W
License Number: API: 15-171-20983
Spud Date: 10 / 02 / 2013
Surface Coordinates: 2175' FSL and 2283' FWL
Approx. NE - NE - SW
Region: Scott Co., KS
Drilling Completed: 10 / 13 / 2013
Bottom Hole Coordinates:
Ground Elevation (ft): 3016' K.B. Elevation (ft): 3023'
Logged Interval (ft): 3700' To: 4834' Total Depth (ft): 4834'
Formation: Mississippian - St Louis
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	3-15s	308	308	4.00
2	7-7/8	JZ-?-PDC	6-14s	3693	3385	61.50
3	7-7/8	JZ-HA25L	3-15s	4834	1141	53.00

SURVEYS: 308'-0.50, 817'-1.00, 1505'-0.75, 1818'-1.00,
2318'-1.00, 2818'-0.50, 3693'-0.75, 4834'-Misrun

GENERAL DRILLING & PUMP INFORMATION:

Drilling with 36,000-38,000 lbs on bit and 70-75 RPM.
Running 8 stands of collars (6.25"x2.25"): 496.08'
Pumping 68 S/M; 8.77 B/M; 650-850 psi from 3693' to 4290'.
Pumping 59 S/M; 7.61 B/M; 700 psi below 4290'.

Daily Status

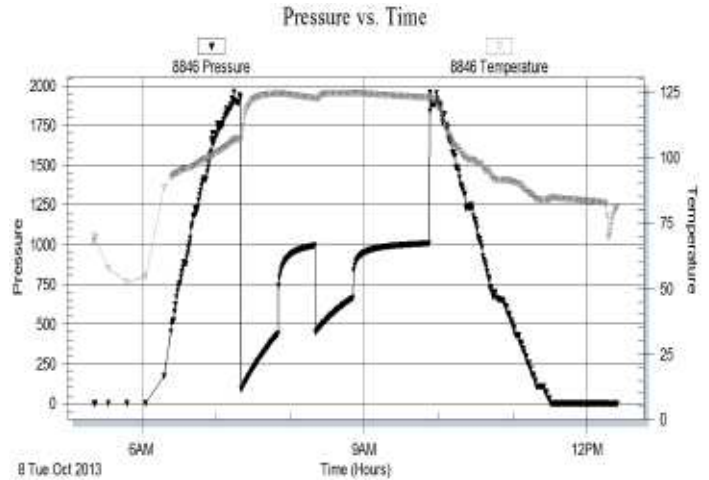
10/02/13 - Spud at 8:00 PM; Set 8-5/8" Csg at 306'
 10/03/13 - 308' WOC
 10/04/13 - 1,286' Drilling
 10/05/13 - 2,375' Drilling
 10/06/13 - 3,135' Drilling; Displace mud system @ 3,549'
 10/07/13 - 3,693' TOH for bit trip
 10/08/13 - 4,037' TIH with DST #1
 10/09/13 - 4,242' TOH for DST #2
 10/10/13 - 4,290' TOH with DST #3
 10/11/13 - 4,570' Drilling
 10/12/13 - 4,670' TIH following DST #4
 10/13/13 - 4,834' Logging

DST #1: 4,004' - 4,037' (LKC "C")
 30" - 30" - 30" - 60"

IF: Strong blow building to BOB in 2 minutes
ISI: No blow back
FF: Strong blow building to BOB in 3.5 minutes
FSI: No blow back

RECOVERY: 1488' Total Fluid, consisting of:
 434' WCM (30% W & 70% M)
 1054' MCW (90% W & 10% M)
Sampler: 50 ml Water; Chlorides: 19,000 ppm

SIP: 993-1007; **FP:** 88-436, 447-664; **HP:** 1928-1956;
BHT: 123

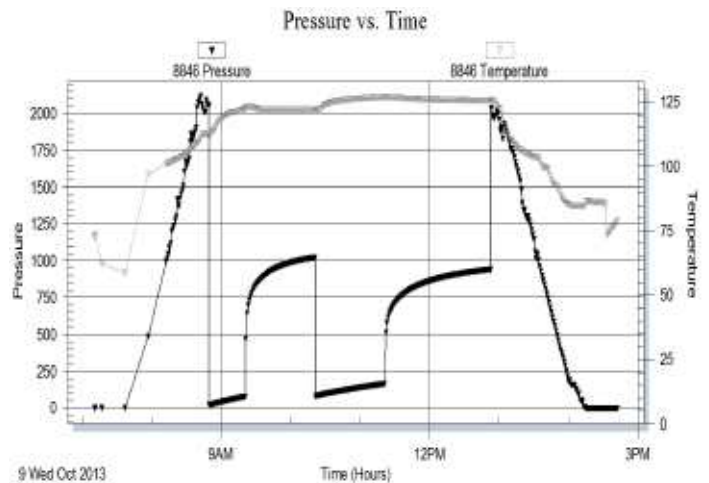


DST #2: 4,222' - 4,242' (LKC "J")
 30" - 60" - 60" - 90"

IF: Fair blow building to BOB in 24 minutes
ISI: No blow back
FF: Fair blow building to BOB in 50 minutes
FSI: No blow back

RECOVERY: 372' Total Fluid, consisting of:
 62' WCM (10% W & 90% M)
 310' MCW (70% W & 30% M)
Sampler: 750 ml Water; Chlorides: 15,000 ppm

SIP: 1024-941; **FP:** 20-77, 80-165; **HP:** 2048-2035;
BHT: 127

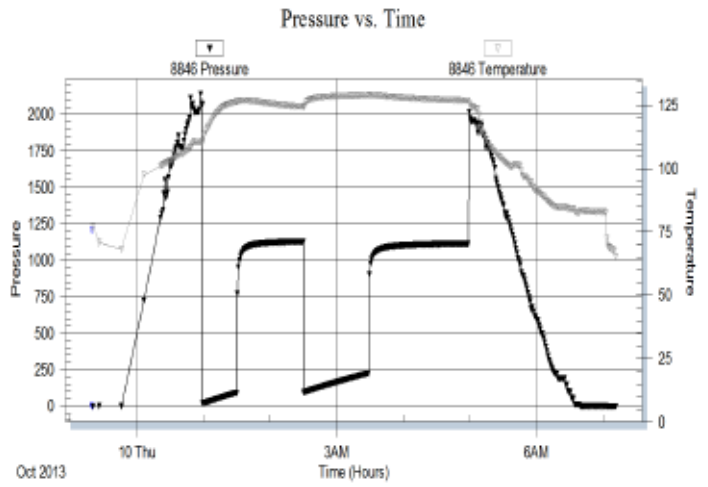


DST #3: 4,260' - 4,290' (LKC "K")
30" - 60" - 60" - 90"

IF: Fair blow building to BOB in 18 minutes
ISI: No blow back
FF: Fair blow building to BOB in 22 minutes
FSI: No blow back

RECOVERY: 496' Total Fluid, consisting of:
62' MCW w/ oil scum (50% W & 50% M)
248' MCW w/ oil scum (90% W & 10% M)
186' Water (100% W)
Sampler: 800 ml Water; Chlorides: 20,000 ppm

SIP: 1127-1114; FP: 19-92, 95-226; HP: 2066-2015;
BHT: 127

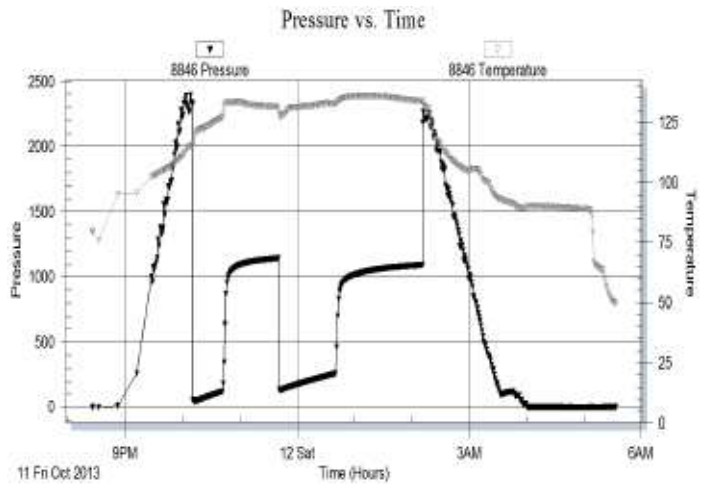


DST #4: 4,642' - 4,670' (Basal Penn Sand)
30" - 60" - 60" - 90"


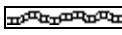
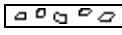
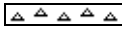
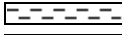



IF: Strong blow building to BOB in 2 minutes
ISI: Blow back building to BOB in 32 minutes
FF: Strong blow building to BOB in 3 minutes
FSI: Blow back building to BOB in 13 minutes
GTS 56 minutes into FSI period





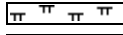


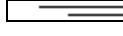
RECOVERY: 868' Total Fluid, consisting of:
744' GCO (23% G & 77% O)
124' GOCM (5% G, 5% O, 90% M)
Sampler: 0.5 CF Gas & 300 ml Oil; Gravity: 25 API






SIP: 1143-1092; FP: 50-119, 133-260; HP: 2326-2264;
BHT: 133









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
-  SltysH
-  Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- 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
- Sltly

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

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

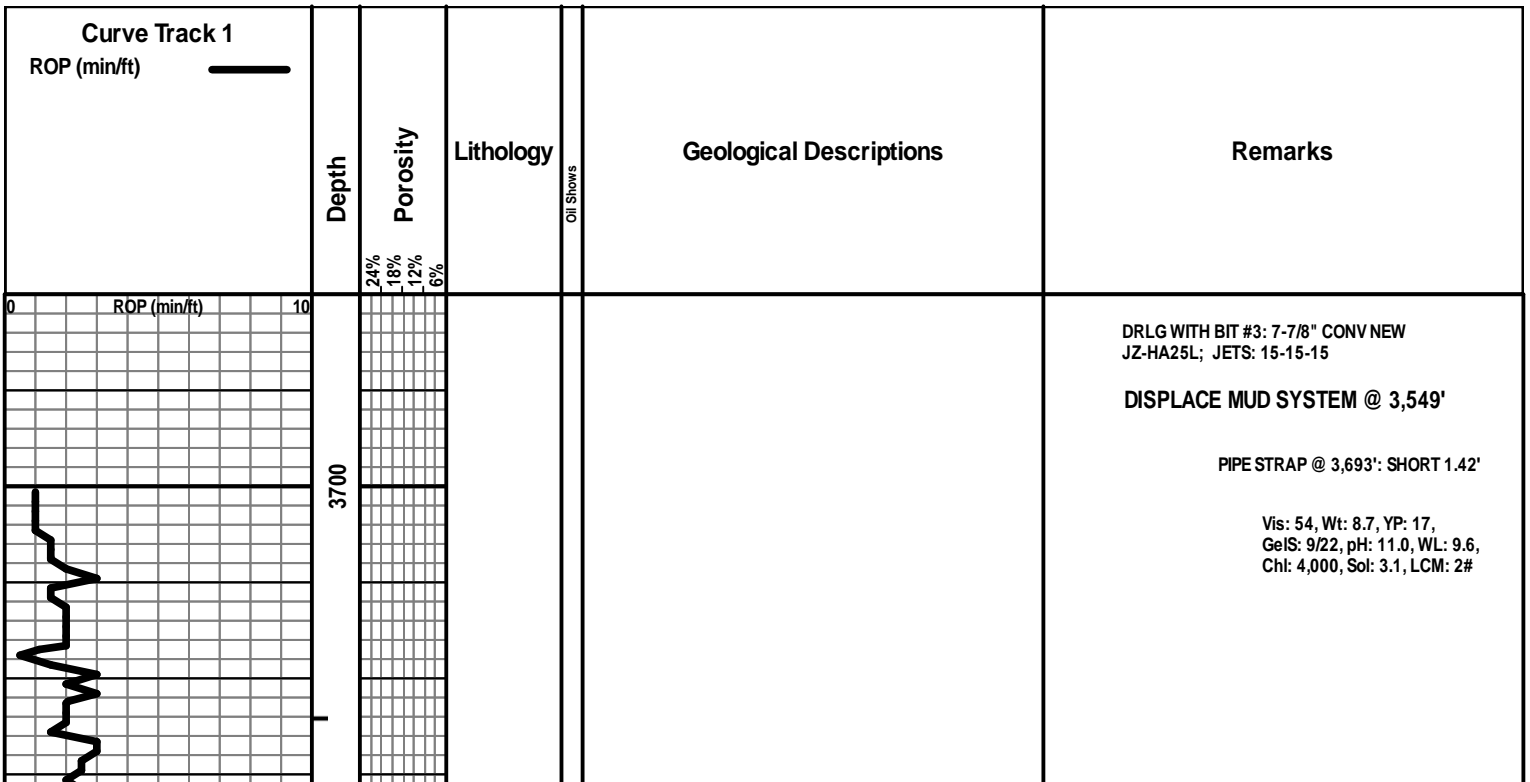
INTERVALS

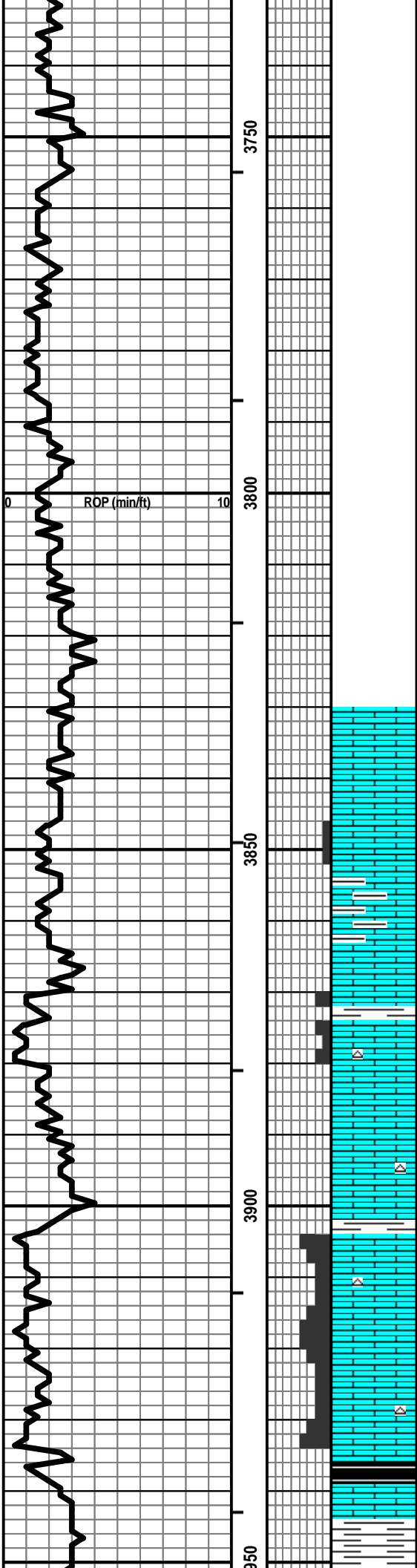
- Core
- Dst

- Dst_1_t
- Dst_1_b
- Dst

EVENTS

- Rft
- Sidewall
- Conn





LS - TAN / BRN / SCAT GY, MOT IN PT, VF / F XLN, SL FOSS,
TR P FOSSMOLD POR, PRED DNS, NS

LS - TAN / GY, VF / F XLN, FOSS IN PT, SCAT P PPT + INTPART
POR, PRED DNS, NS

LS - TAN / CRM, F XLN, FOSS, OOL IN PT, P / TR F INTPART +
PPT POR, TR FOSSMOLD POR, SCAT DNS / CHKY, NS W/
SCAT CHT - WHT / LT GY

LS - V SIMILAR TO ABOVE, PRED DNS / CHKY IN PT, NS W/
SCAT CHT - AS ABOVE

LS - CRM / TAN, VF / F XLN, GRAN, SL FOSS, F / G VUG +
INTPART POR + PPT POR, SCAT CHKY, NS W/ SCAT CHT -
WHT / LT GY, FOSS

LS - AS ABOVE, NS W/ SCAT CHT - AS ABOVE

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

Vis: 70, Wt: 8.5
LCM: 2#

HEEBNER 3936 (-913)

TORONTO 3954 (-931)

LANSING 3978 (-955)

DST #1: 4004'-4037' (LKC "C")
30" - 30" - 30" - 60"

IF: Strong blow, BOB in 2 min.
ISI: No blow back
FF: Strong blow, BOB in 3.5 min.
FSI: No blow back

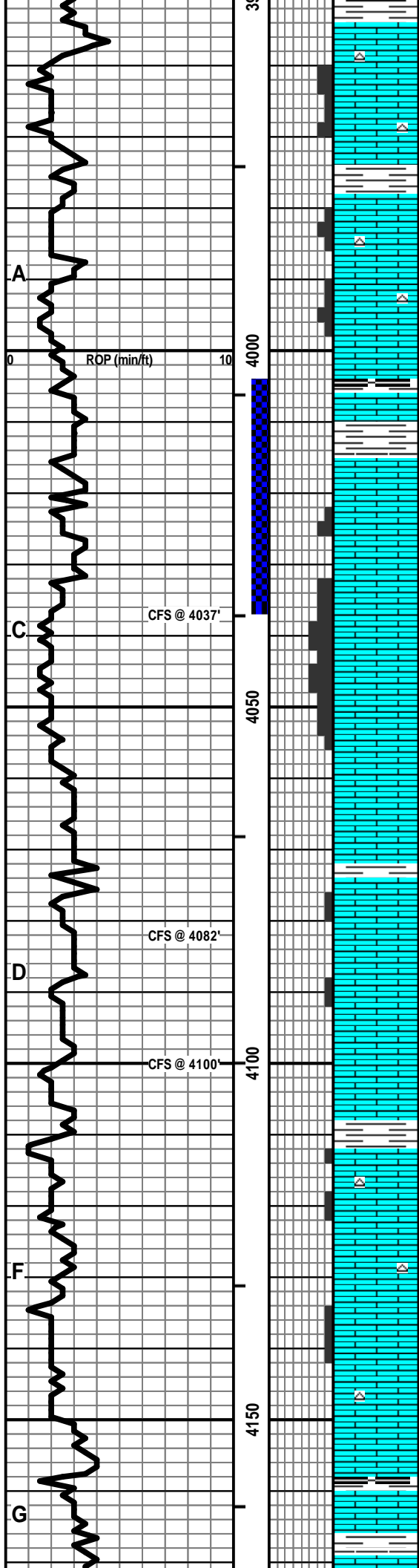
RECOVERY: 1488' Total Fluid:
434' WCM (30% W & 70% M)
1054' MCW (90% W & 10% M)
Sampler: 50 ml Water; Chl: 19,000 ppm

SIP: 993-1007 HP: 1928-1956
FP: 88-436, 447-664 BHT: 123

Vis: 53, Wt: 8.8, YP: 16,
GelS: 10/29, pH: 10.0, WL: 7.2,
Chl: 3,500, Sol: 4.0, LCM: 2#

Vis: 64, Wt: 8.9
LCM: 1#

MUNCIE CREEK 4158 (-1135)



LS - CRM / TAN / SCAT WHT, VF / F XLN, FOSS IN PT, GRAN IN PT, F PPT + VUG POR IN PT, SUBCHKY IN PT, NSFO, NO ODOR, SCAT DEAD OIL FLKS + STN W/ SCAT CHT - WHT / LT GY

LS - CRM / TAN / WHT, F XLN, FOSS, OOL IN PT, SCAT P / TR F PPT + FOSSMOLD POR, NSFO, NO ODOR, SCAT SPTY STN, SOME DEAD / FLKY W/ CHT - WHT / LT GY W/ SOME CAVINGS

LS - ASABOVE, SCAT P / TR F VUG + INTXLN POR, CHKY IN PT, NS

LS - CRM / TAN, VF / F XLN, FOSS IN PT, CHKY IN PT, PRED DNS, NS W/ SH - GY / GRN

LS - CRM / WHT, F XLN, OOL, FOSS IN PT, TR PPT + FOSSMOLD POR, PRED DNS, NS

LS - CRM / TAN / SCAT WHT, F / M XLN, OOL, SCAT P / F INTOOL / INTXLN + VUG POR, SL / F SFO, TR GB, F ODOR, SPTY / SAT STN, SCAT PSFO / BARR, PRED G FLUOR + CUT

LS - ASABOVE, P / G INTXLN + VUG POR, SSFO, V FT ODOR, SCAT SPTY STN, MOD ABNT BARR POR

LS - CRM / TAN / LT GY, PRED VF / F XLN, SL OOL + FOSS, SCAT CHKY, PRED DNS, NS

LS - CRM / TAN, VF / F / SCAT M XLN, OOL + FOSS IN PT, P / SCAT F INTXLN + PPT POR IN PT, TR FO, NO ODOR, TR SPTY STN, SCAT DULL FLUOR, NO CUT

LS - CRM / TAN, PRED VF / F XLN, OOL + FOSS IN PT, P / SCAT F INTXLN + PPT POR IN PT, SCAT CHKY, TR FO, NO ODOR, TR SPTY STN, TR DULL FLUOR, NO CUT

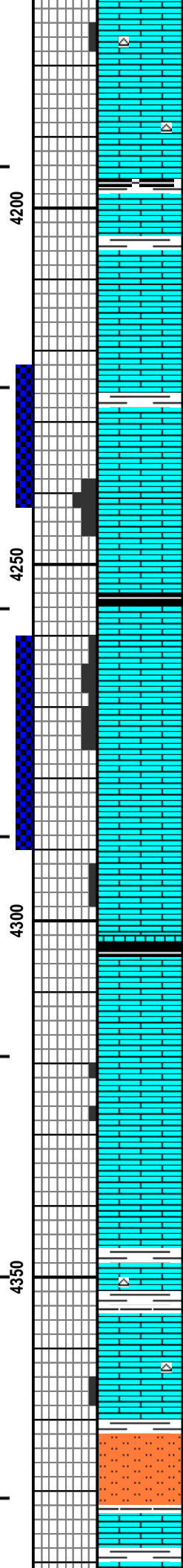
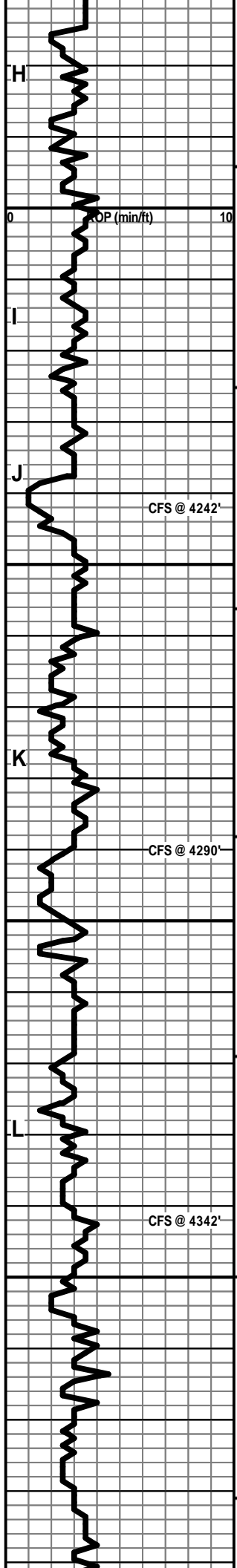
LS - ASABOVE, SCAT P / F VUG POR, NS

LS - CRM / LT GY, MOT IN PT, F XLN, OOL IN PT, SL FOSS, SCAT INTPART + VUG POR, NS W/ CHT - WHT / LT GY

LS - CRM / SCAT LT GY / SCAT TAN, VF / F XLN, SCAT OOL + FOSS, CHKY IN PT, SCAT P INTXLN POR, NS W/ CHT - WHT / LT GY

LS - ASABOVE, PRED DNS / CHKY IN PT

LS - CRM / TAN / GY, MOT, VF / F XLN, OOL IN PT, TR P INTXLN POR, PRED DNS, TR FO, FT ODOR, TR SPTY STN, TR DULL FLUOR, NO CUT



LS - CRM / TAN, VF / F XLN, SL FOSS, SCAT OOL, TR P INTXLN POR, CHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT

LS - CRM / TAN / GY, MOT IN PT, VF / F XLN, SL FOSS, CHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT

LS - TAN / BRN / SCAT CRM, VF / F XLN, SCAT CRYPTO XLN, FOSS IN PT, PRED DNS, NS

LS - CRM / TAN, F XLN, FOSS IN PT, SCAT P INTXLN POR, PRED DNS, VSSFO, FT ODOR, SCAT SPTY STN, SCAT F FLUOR, F / G CUT

LS - CRM / TAN, F XLN, OOL + FOSS IN PT, P / G INTXLN / INTPART POR, SCAT VUG POR, SL / F SFO, F ODOR, PRED SPTY / TR SAT STN, F / G FLUOR, G CUT

LS - AS ABOVE W/ LS - CRM / GY, F XLN, OOL, FOSS IN PT, SCAT P / F OOM + INTXLN POR, NS, NO ODOR

LS - CRM / GY / SCAT TAN, F XLN, OOL + FOSS IN PT, SCAT P / F INTXLN + PPT POR, TR VUG POR, SUBCHKY IN PT, SL / F SFO, F ODOR, PRED SPTY / SCAT SAT STN, F / G FLUOR, PRED G CUT

LS - V SIMILAR TO ABOVE, SUBCHKY IN PT, PRED DNS, NS, NO ODOR

LS - CRM / GY, VF / F XLN, FOSS IN PT, SCAT OOL, SCAT P INTXLN + VUG POR, SUBCHKY IN PT, NS, NO ODOR

LS - CRM / TAN / SCAT GY, VF / F XLN, SCAT M REXLN CALC, OOL IN PT, PRED DNS, NS

LS - CRM / TAN / GY, MOT IN PT, VF / F XLN, SCAT FOSS + OOL, TR P INTXLN POR, SUBCHKY / CHKY IN PT, PRED DNS, NSFO, V FT ODOR, TR SPTY STN, SCAT DULL FLUOR, PRED NO CUT

LS - CRM / GY / SCAT TAN, VF / F XLN, SL FOSS, SCAT OOL, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT W/ SH - GY / GRN / BLK

LS - SIMILAR TO ABOVE, TR PINTXLN / INTPART POR, TR OIL FILM, NSFO, V FT ODOR, TR SPTY STN, PRED NS

SH - GY / GRN / SCAT RED / SCAT BLK W/ SLTST - GY / SCAT GRN, CALC IN PT

SLTST - GY / SCAT GRN, CALC IN PT W/ LS - GY / SCAT BRN, F XLN, SCAT M REXLN CALC, PRED DNS, NS

DST #2: 4222'-4242' (LKC "J")
30" - 60" - 60" - 90"

IF: Fair blow, BOB in 24 min.
ISI: No blow back
FF: Fair blow, BOB in 50 min.
FSI: No blow back

RECOVERY: 372' Total Fluid:
62' WCM (10% W & 90% M)
310' MCW (70% W & 30% M)
Sampler: 750 ml Water; Chl: 15,000 ppm

SIP: 1024-941 HP: 2048-2035
FP: 20-77, 80-165 BHT: 127

Vis: 58, Wt: 9.1, YP: 22,
GelS: 13/41, pH: 9.0, WL: 9.6,
Chl: 5,000, Sol: 5.4, LCM: 2#

STARK SHALE 4254 (-1231)

DST #3: 4260'-4290' (LKC "K")
30" - 60" - 60" - 90"

IF: Fair blow, BOB in 18 min.
ISI: No blow back
FF: Fair blow, BOB in 22 min.
FSI: No blow back

RECOVERY: 496' Total Fluid:
62' MCW w/ oil scum (50% W, 50% M)
248' MCW w/ oil scum (90% W, 10% M)
186' SW (100% W); Chl: 20,000 ppm
Sampler: 800 ml Water

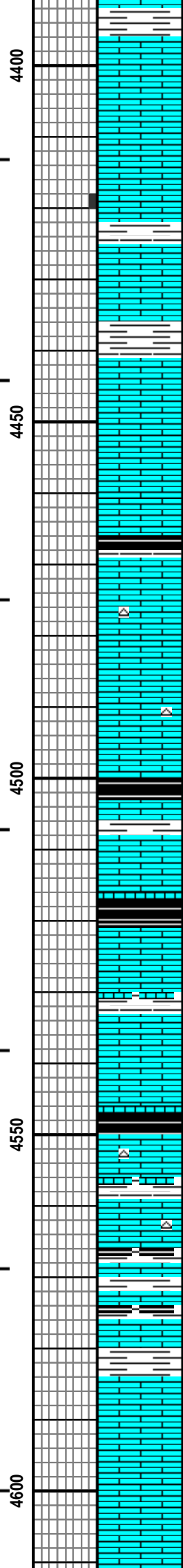
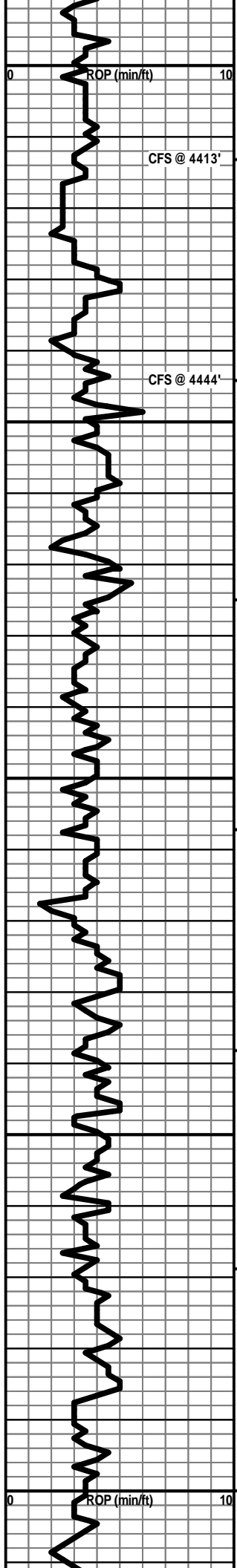
SIP: 1127-1114 HP: 2066-2015
FP: 19-92, 95-226 BHT: 127

AT 4290': REDUCE PUMP
RATE TO 59 S/M; 7.61 B/M;
650 PST AT THE STANDPIPE

Vis: 50, Wt: 9.1, YP: 20,
GelS: 14/39, pH: 10.0, WL: 10.4,
Chl: 6,000, Sol: 5.4, LCM: 2#

BASE OF KC 4370 (-1347)

MARMATON 4390 (-1367)



LS - ASABOVE W/SH - PRED GY / GRN

LS - CRM / TAN / SCAT WHT, VF XLN, FOSS IN PT, SCAT OOL, CHKY IN PT, PRED DNS, NO VIS POR, NSFO, NO ODOR, TR SPTY STN, NO FLUOR, NO CUT

LS - CRM / TAN, VF / F XLN, OOL IN PT, SCAT P / F INTXLN / INTPART + VUG POR, SSFO, V FT ODOR, SCAT SPTY / TR SAT STN, P / G FLUOR + CUT (POR & SHOW 5% OF SAMPLES) W/SH - LT / DK GY

LS - CRM / LT GY / SCAT TAN, VF / F XLN, BREC IN PT, OOL IN PT, SL FOSS, PRED DNS, TR POR ASABOVE, TR SHOW AS ABOVE + DEAD BLK FLKS, V FT ODOR, TR STN ASABOVE (CAVINGS?) W/SH - LT / MED / DK GY

LS - CRM / TAN / SCAT BRN, VF / F XLN, SCAT REXLN CALC, FOSS IN PT, SUBCHKY IN PT, PRED DNS, NS

LS - ASABOVE, NO VIS POR, NS

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

LS - CRM, VF / F XLN, GRAN IN PT, SL FOSS, P / NO VIS POR, VSSFO, NO ODOR, TR SPTY STN W/ SCAT CHT - MED / DK GY

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

LS - TAN / BRN, VF XLN, SCAT REXLN CALC, OOL, PRED DNS, NS

LS - CRM / GY / TAN, VF / F XLN, FOSS, SCAT OOL, PRED DNS, NS

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

(FAIR SAMPLE QUALITY - MOD ABNT CAVINGS)
LS - CRM / TAN, VF / F XLN, SL FOSS + OOL, CHKY IN PT, PRED DNS, NS W/ SCAT CHT - GY W/ABNT SH - GY / GRN / BLK / RED

(POOR SAMPLE QUALITY - ABNT CAVINGS)
LS - CRM / TAN, VF / F XLN, SCAT REXLN CALC, FOSS IN PT, PRED DNS, NS

(POOR SAMPLE QUALITY - ABNT CAVINGS)
LS - CRM / TAN, MOT IN PT, VF / F XLN, SL FOSS, SUBCHKY IN PT, PRED DNS, NS W/ SCAT LS - TAN / GY, MOT, F XLN, FOSS, PRED DNS, NS

Vis: 51, Wt: 9.1
LCM: 2#

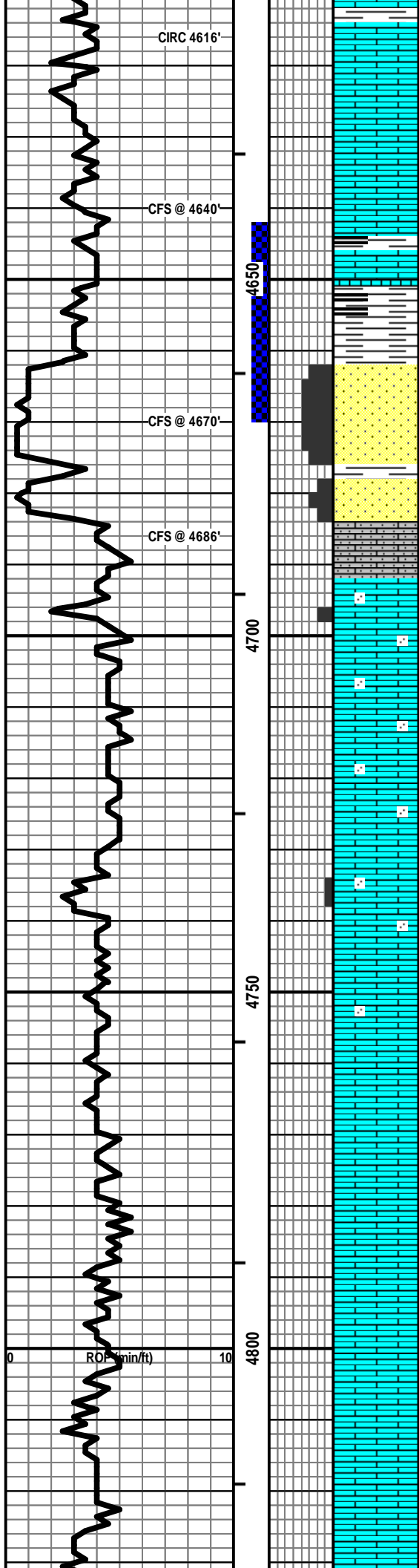
PAWNEE 4469 (-1446)

CHEROKEE SH 4517 (-1494)

Vis: 63, Wt: 9.2
LCM: 1#

JOHNSON ZONE 4576 (-1553)

Vis: 47, Wt: 9.3, YP: 36,
GelS: 34/42, pH: 9.0, WL: 16.0,
Chl: 5,500, Sol: 6.8, LCM: 2#



LS - CRM / TAN / SCAT BRN, VF / F XLN, RARE M XLN + REXLN CALC, FOSS, OOL IN PT, PRED NO VIS POR, FEW PCES P / F INTXLN + PPT POR, VSSFO, V FT ODOR, SPTY STN, F FLUOR + CUT

LS - CRM / TAN, VF / F XLN, FOSS, OOL IN PT, PRED DNS, NS, NO ODOR

LS - CRM / TAN, F XLN, FOSS, SCAT P / F INTXLN + PPT / SM VUG POR (<5% OF SAMPLE), VSSFO, FT ODOR, SPTY STN, F FLUOR + CUT W/ SH - GY / GRN

ABNT SH - GY / GRN, SLTY IN PT W/ LS - AS ABOVE

SS - LT GY, VF / F / SCAT M QTZ GR, W SRTD, SR / R, SIL CEM, TR CLAY MAT IN PT, F / G INTGR POR, MOD / V FRI, F / G SFO, SSGB, G ODOR, PRED SAT STN, G FLUOR + CUT

(VERY POOR SAMPLE QUALITY)
 ABNT SH - RED / GY W/ SCAT SS - AS ABOVE, F / G SFO + STN W/ SCAT SS - LT / MED GY / SCAT CRM, MOT IN PT, VF / F / M GR, W / FW SRTD, SA / R, SIL CEM, MOD / ABNT PYR IN PT, P / G INTGR POR, FRI IN PT, NS W/ SCAT SS - LT GY / CLR / WHT, VF / F / SCAT M GR, FW SRTD, SA / R, CALC CEM, P / G INTGR POR, FRI IN PT, NS, NO ODOR W/ SCAT LS (ST GEN) - WHT / CRM, V AREN, VF QTZ GR, PRED DNS, NS

(VERY POOR SAMPLE QUALITY)
 ABNT SH - RED / GY W/ SCAT LS (ST LOUIS) - WHT / CRM, VF XLN, AREN, VF / C QTZ GR, MED SIZE OOL, PRED DNS, TR P / F INTOOL / INTPART POR, SSFO, TR GB, NO ODOR, SPTY / SAT STN, F / G FLUOR, G CUT W/ SCAT LS (ST GEN) - AS ABOVE

(VERY POOR SAMPLE QUALITY)
 ABNT SH - RED / GY W/ SCAT LS - CRM / WHT, VF / F XLN, AREN IN PT, SCAT OOL, SUBCHKY IN PT, PRED DNS, NS

(POOR SAMPLE QUALITY)
 ABNT SH - RED / GY W/ MOD ABNT LS - CRM / TAN / WHT, VF / F XLN, OOL IN PT, SCAT AREN, PRED DNS, TR P INTOOL / INTPART POR, PSFO, NO ODOR, QUES SPTY STN

(FAIR / GOOD SAMPLE QUALITY 4750' TO 4800')
 LS - CRM / TAN / SCAT WHT, VF / F XLN, OOL IN PT, SCAT AREN, SCAT CHKY, PRED DNS, NS

LS - CRM / TAN, VF / F XLN, RARE OOL, CHKY IN PT, PRED DNS, NS

LS - CRM / TAN, PRED VF / F XLN, SCAT CRYPTO XLN, RARE OOL, CHKY IN PT, PRED DNS, NS

(POOR SAMPLE QUALITY 4800' TO RTD)
 ABNT SH - RED / GY W/ LS - CRM / TAN, VF / F XLN, OOL IN PT, CHKY IN PT, PRED DNS, NO VIS POR, NS

ABNT SH - RED / GY W/ LS - CRM / TAN, VF / F XLN, OOL IN PT, CHKY IN PT, PRED DNS, NO VIS POR, NS

FLUIDS DUE TO INADEQUATE SUPPLY OF FRESH WATER THROUGH EARLY MORNING HOURS; SAMPLE QUALITY VERY POOR FROM 4,580'; FRESH WATER DELIVERED BY 9:00 AM; STOP AND CIRC AT 4,616' TO PREPARE AND ADD PREMIX; RESUME DRILLING AFTER THE ADDITION OF ONE PREMIX; PREPARE TO ADD A SECOND PREMIX ASAP; SAMPLES MUCH IMPROVED.

MORROW SH 4651 (-1628)

SANDSTONE 4662 (-1639)

MISS. ST GEN 4684 (-1661)

Vis: 42, Wt: 9.0, YP: 11,
 GelS: 9/24, pH: 9.5, WL: 10.0,
 Chl: 6,000, Sol: 4.7, LCM: 2#

DST #4: 4642'-4670' (BASAL PENN SAND)
 30" - 60" - 60" - 90"

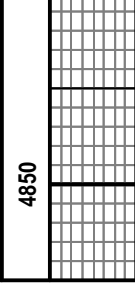
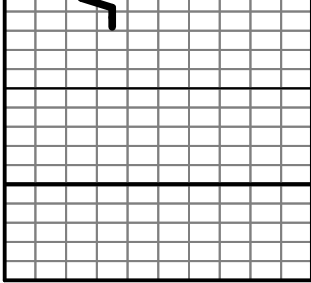
IF: Strong blow bldg to BOB in 2 min.
ISI: Blow back bldg to BOB in 32 min
FF: Strong blow bldg to BOB in 3 min.
FSI: Blow back bldg to BOB in 13 min
GTS 56 min into FSI period

RECOVERY: 868' Total Fluid:
744' GCO (23% G, 77% O)
124' GOCM (5% G, 5% O, 90% M)
Sampler: 0.5 CF Gas & 300 ml Oil
Gravity: 25 API

SIP: 1143-1092 HP: 2326-2264
FP: 50-119, 133-260 BHT: 133

Vis: 64, Wt: 9.1
 LCM: 1#

Vis: 64, Wt: 9.2
 LCM: 1#



4850

TOTAL DEPTH 4834 (-1811)

10/12/2013 AT 10:45 PM