

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	K3 Oil & Gas Operating Company
Well Name	BOYER 6-3
Doc ID	1405668

All Electric Logs Run

Array Compensated Indu log
Micro Log
Acoustic Porosity
Microlog
Special Density Dual Space Neutron

Form	ACO1 - Well Completion
Operator	K3 Oil & Gas Operating Company
Well Name	BOYER 6-3
Doc ID	1405668

Tops

Name	Top	Datum
Topeka	2605	-1408
Hebner	3010	-1813
Stalnaker	3360	-2163
KC	3759	-2562
Marmaton	4112	-2915
Cherokee	4258	-3061
Miss	4489	-3292
Kinderhook	4874	-3677
Chattanooga	4907	-3710
Simpson	4958	-3761

Summary of Changes

Lease Name and Number: BOYER 6-3

API/Permit #: 15-191-22788-00-00

Doc ID: 1405668

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	07/06/2017	04/18/2018
Date of First or Resumed Production or SWD or Enhr Disposition Of Gas - Sold	No	8/03/2017 Yes
Geologist Report / Mud Logs?		Yes
Perf_acid1		250 gel 15% MCA; Acid
Perf_acid2		15% HCL Acid, CIA 1 EP acid inhibitor Clayplex 302 clay stab. 4950
Perf_bridgeplug2depth		
Perf_bridgeplug2type		CIBP Cast Iron Bridge Plug
Perf_perf1bottom		4480
Perf_perf1top		4460

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Perf_shots1		4
Perf_shots2		4
Producing Method Flowing	No	Yes
Production - Barrels Oil		72
Production - MCF Gas		380
Production Interval #1	4491-4516	4491
Production Interval #3		4516

Summary of Attachments

Lease Name and Number: BOYER 6-3

API: 15-191-22788-00-00

Doc ID: 1405668

Correction Number: 1

Attachment Name

completion procedure

KCC Frac template



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1350479
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

CONFIDENTIAL WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

Completion Procedure

Boyer 6-3 well, Sumner County, Kansas

2526' FNL & 1656' FWL 35S-4W-Sec 3

April 11, 2017

Drillers TD: 5150' (per loggers)

Surface Csg: 8 5/8", 23# set 12 jts. @ 515' w/ 275 sx class "A" cement.

Prod. Csg: 120 jts, 5 1/2", 15.5#, MW-55 csg. LTD & RTD @ 5148'. 50/50 POZ w/ 350 sx

Cement Pumped by Basic Services.

Based on subject well's Open hole log and the well's DST evaluation, the following zones will be tested based on production results. *This completion procedure is based on the well's open hole logs run on 3/22/2017. Perforation depths are based on Weatherford Compact Photo Density Compensated Neutron Micro Resistivity Log, dated 3/22/2017 as well as DST data information taken during the drilling operations*

Test #	Zone	Perfs	Ft.
1	□□ □□□□	4□60□4□80'	20'

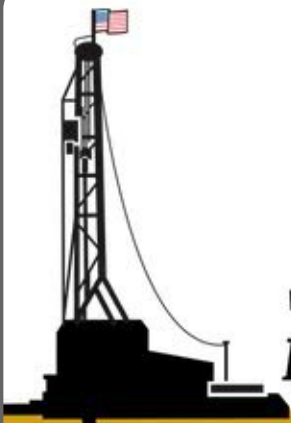
1. Level up location and set anchors. Rig up workover rig.
2. Make bit trip to bottom as deemed necessary.
3. POOH with bit.
4. Run CBL & CCL
5. RU csg swab & swab down to 3400'.
6. RU loggers to perforate. Trip in hole with 4" csg guns. Perforate intervals 4,960-4980. POOH and LD Csg guns.
7. Pick up retrievable packer assembly to isolate zones. RIH w/same. **Isolate Simpson zone**
8. Rig up pressure pumping truck. Acidize Simpson zone. Acidize with 250 gal 15% MCA. Swab back. Acidize with 6000 gal of 15% HCL + additives as recommended. Swab back.
*NOTE: Record pressures and pump rates and note pressure breaks if any.
9. Swab test well, recording all swab runs. Recover acid volume and record oil cut.
10. Wait on decision from Houston.

Contact Numbers:

- 1) K3 Oil and Gas: 832-813-8558 (Office Main phone)

John Rigas: 832-813-8496 (Office), 281-610-5994 (Cell)
Alex Warmath: 832-813-5985 (Office), 281-387-6764 (Cell)
K3 Office fax: 832-234-0825

- 2) Log-Tech Wireline: (785) 625-3858
- 3) Brett Hildebrand: (785)-871-7311 (Cell) 785-877-5331 Office fax



MICWL

Mid Continent Well Logging Service, Inc.

717 26th Ave NW, Norman, OK 73069

Office (405) 360-7333 | Operations (405) 310-1675 | Sales (405) 310-0087

www.mcwlinc.com

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

Well Name: BOYER #6-3 K3 OIL AND GAS
API: 15-191-22788-0000
Location: T35S-R4W-Sec 3 SE SW SE NW
License Number: API 15-191-22788-0000
Spud Date: 3/11/2017
Surface Coordinates: SEC. 3 T 35S R 4W
2526' FNL 1656' FWL
Bottom Hole Coordinates: SEC. 3 T 35S R 4W
Ground Elevation (ft): 1,192' K.B. Elevation (ft): 1,197'
Logged Interval (ft): 3,000 To: 5,150' Total Depth (ft): 5,150
Formation: MISS./ SIMPSON
Type of Drilling Fluid: NATIVE/ LSND

Region: SUMNER
Drilling Completed: 3/22/17

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

OPERATOR

Company: K3 OIL & GAS
Address: 24900 PITKIN ROAD, SUITE 305
THR WOODLANDS, TEXAS
77386

GEOLOGIST

Name: SUSAN RAINBOLT
Company: K3 OIL & GAS
Address: 24900 PITKIN ROAD, SUITE 305
THR WOODLANDS, TEXAS
77386

DST #1

#1 MISS. CHAT 4,492'- 4,508' 16' ANCHOR
REC: 115' WM 4,384 GAS
IH 0 MIN 2242
FIF: 1 MIN 95 BOB INSTANTLY
FIF: 107
ISI: 4 MIN 1809 NO BLOW
2ND IF: 96
2ND FF: 66
FSI: 170 MIN 1790
FH: 172 MIN 2202

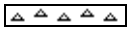
DST #2

SIMPSON 4,957- 4979' REC. 115' MUD
IH 2242
1ST IF 95
1ST FF 107
ISI 1809
2ND IF 96
2ND FF 66
FSI 1709
FH 2202

DST #3

SIMPSON 4,957- 4979'
IH 2495
1ST IF 51
1ST FF 55
ISI 1719
2ND IF 64
2ND FF 77
FSI 1591
145 MUD TR OIL

ROCK TYPES



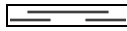
Cht



Dol



Lmst



Shale



Ss



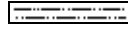
Hotsh



Anhy



Sndylm



Slst

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

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
- Ssstrg
- Sltstrg

TEXTURE

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

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy
- New symbol
- New symbol

- Sndylm
- New symbol

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd

- Subang
- Angular

OIL SHOW

- Even
- Spotted
- Ques
- Dead

INTERVAL

- Core

- Dst

EVENT

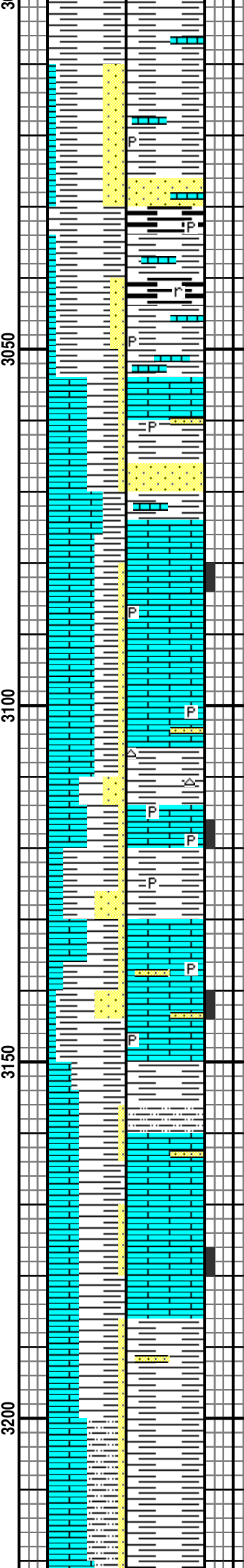
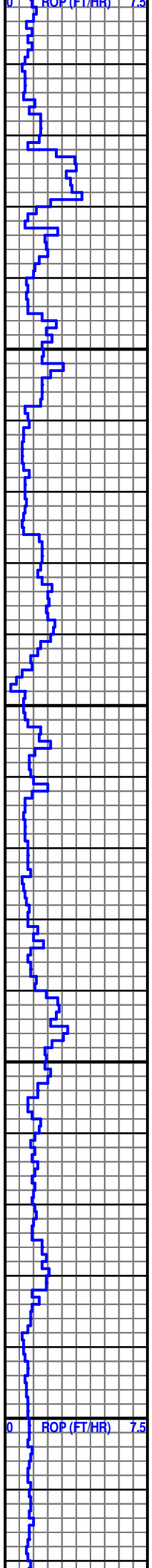
- Rft
- Sidewall
- Dst
- Dst

Survey Data	ROP ROP (FT/HR)	Depth	Porosity	% Lithology	Lithology	Fluorescence	Leach	Geological Descriptions	TG, C1-C5
DEPTH: 2885 WT: 8.7 Vis: 15 PV: 15 YP: 15 Gel: 13/36 W.L.: Sol: 2.7 WC: 97.3 Cl: 2700 Ca: 80 WOB: 10/12 RPM: 100	7.5	2950						K3 OIL & GAS BOYER #6-3 SEC.3 T 35S 4W SUMNER CO., KANSAS SET 8 5/8" CASING AT 516'. DRILLING 7 7/8" HOLE W/ NB#3 (SMITH MI 616 IN AT 516'. JET'S 3/15'S. GAS AND SAMPLES ARE LAG CORRECTED. BEGIN LOGGING SAMPLES @ 3,000' MD ON 3/14/2017 SH: PRED LT GRY-GRY, SME MED GRY, CHNKY, MOD	BOYER #6-3
	ROP	0000							GAS

RPM: 90/100
SPM: 57
PP: 500

WOB: 35K
RPM: 85/90
SPM: 57
PP: 600

3/15/2017



SFT-SLI FRM, OCC MOD FRM,
MSTLY SMTH-SLI SMTH,
SMTH-SLI SMTH TXT, SS:
PRED LT CRM-LT TAN, SME
TAN, MOD FRM-FRM, OCC HD,
RGH TXT, TRC LS, TRC PYR,
SME POR FLOR, PR DULL YLW
FLOR, NO CUT, NO RES RING

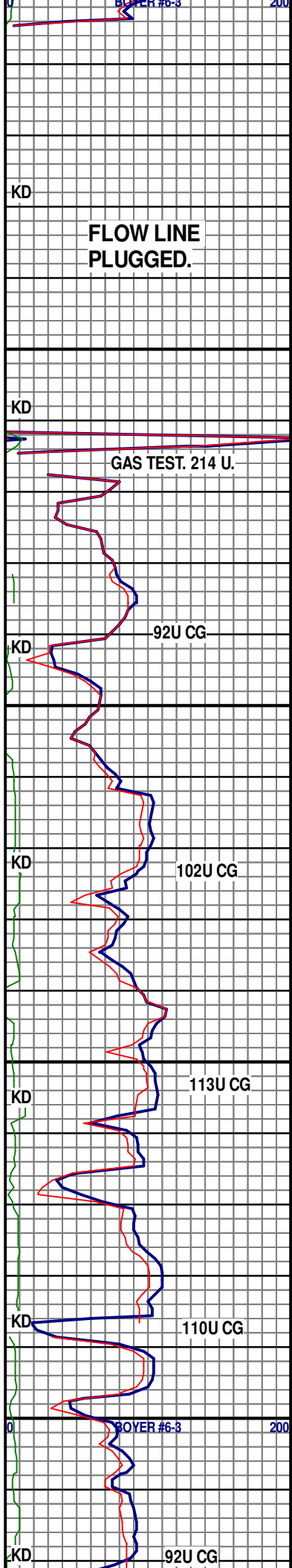
HEEBNER 3,029' MD,
KB (-1,832')

SH: MSTY LT GRY-GRY, OCC
DRK GRY, CHNKY-BLKY, PRED
FRM-SLI FRM, TRC HD, V
SLTY-RGH TXT, OCC SMTH
TXT, W/LS: MSTLY CRM-LT
TAN, SME TAN, PLTY-BLKY,
FRM-SLI HD, MED-FN TXT, SUB
ANG-SUB RND, TRC SS, PR
FRAC POR, PR DULL YLW
FLOR, NO CUT, NO RES RING

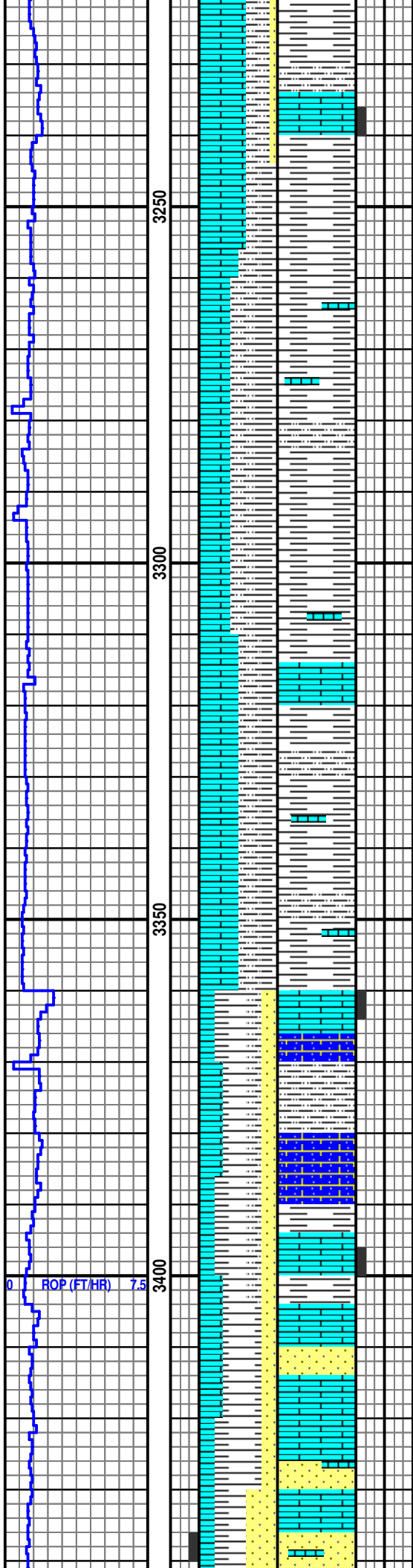
SH: PRED DRK GRY-GRY, OCC
LT GRY, PLTY-BLKY, PRED
MOD FRM-FRM, SLTY-SMTH
TXT, SME RGH TXT, W/LS
CRM-LT TAN, SME OFF WHT,
PLTY-BLKY, SMTH-RGH TXT,
FRM-VRY FRM, SME HD, TRC
OFF WHT-LT TAN SS,
CLEAR-OFF WHT, V HD, TRC
OF CHRT, PYR, PR DULL YLW
FLOR, NO CUT, NO RES RING

SH: MSTLY LT GRY-GRY, SME
DK GRY, CHNKY-BLKY, OCC
PLTY, MOD SFT-SLI FRM, SME
FRM, SLTY-SMTH TXT, W/LS:
OFF WHT-CRM, SME TAN,
BLKY-PLTY, SUB RND-SUB
ANG, FRM-SLI HD, OCC HD,
SCAT SS STRGS, PR FRAC
POR, PR DULL YLW FLOR, NO
CUT, NO RES RING

SS: FRST, VFU SBRD MOD
SRTD CLR QTZ GNS, BRTL-
CRMBLY W/ MOD INTGN POR,
SLI- MOD CALC, NO ODOR/
CUT, LS, CRM- BUFF. PRED
MCXLN, SM VFNXLN, BLKY,
FRM- BRTL, SM SLTY- VFN
AREN, TR INTSTIT POR, DULL
YELGLD MIN FLUOR, INTBD
SH, SM CY, ENTEY, PLTY



WOB 35K
 RPM 85-90
 SPM 57
 PP 500



SH, SM GY, FN TEX, PLTY,
 VSLI- NON CALC, SM BLKY,
 FRM- BRTL, VRY CALC-
 MRLSTN

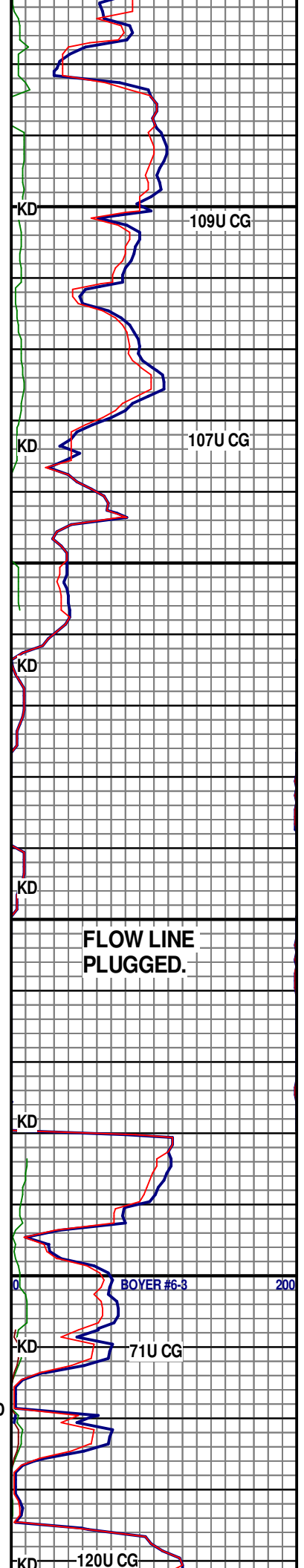
SLTSTN: DRTY GY, PLTY, FRM,
 CALC SM GRD TO SS, PRED
 DRTY GY, ARG, VFM-U SBRD
 MOD SRTD QTZ GNS, PLTY-
 BLKY, FRM,

SH: MD GY, FN- MD TEX, PLTY
 FRM, PRED CALC, SM GRD TO
 SLTY, SM DK GY FN TEX SB
 CARB SH, BLKY, BRTL, SCAT
 LS, OFF WH- CRM, MCXLN,
 BLKY, FRM- BRTL, TR INTXLN
 POR, DULL YELGLD MIN
 FLUOR, NO ODOR/ CUT

STALNAKER
3,360' (-2,163')
 LS: CRM, PLTY- BLKY FRM,
 MCXLN, DULL YELGLD MIN
 FLUOR, NVP, SM SLTY- VFN
 AREN, BRTL- CRMBLY, INTBD
 SS, FRST, VFM SBRD WELL
 SRTD QTZ GNS, SLI- MOD
 CALC, TR INTGN POR, NO
 ODOR/ CUT/ FLOAT

LS: CRM/ MOTT W/ BUFF IP,
 PLTY- BLKY, MCXLN, BRTL-
 FRM, TR INTXLN POR, DULL
 YELGLD MIN FLUOR, INTBD
 SH, PRED MD- LT GY, PLTY,
 VRY CALC- MRLY, FRM, SM
 INTBD SS, FRST- GY, VFM-U
 SBRD WELL SRTD QTZ GNS,
 CRMBLY, UNCONS IP, MOD- GD
 INTGN POR, SLI CALC, NO
 ODOR/ FLUOR/ CUT

SS:FRST- GY, VFM-U SBRD
 WELL SRTD QTZ GNS.



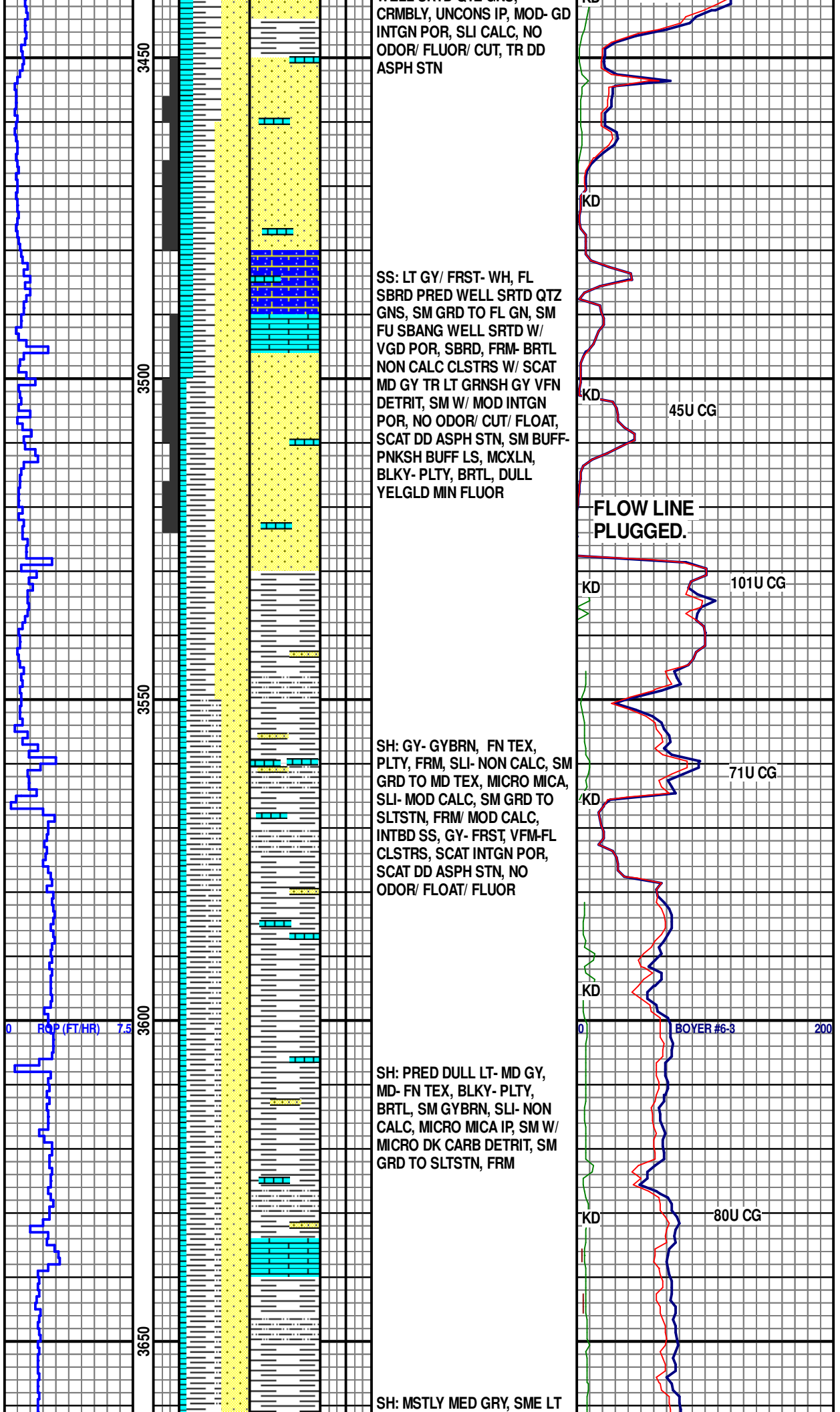
WOB 35K
 RPM 85-90
 SPM 57
 PP 600

MUD DATA
 AT 3,442'
 WT 9
 VISC

VIS 44
 PV 10
 YP 15
 PH 10.5
 FIL 12.4
 CK 1
 CL 11K
 CA 100
 SOL 4.3
 LCM #1

SWEEP HOLE.

WOB 35K
 RPM 85-90
 SPM 57
 PP 600



CRMBLY, UNCONS IP, MOD- GD
 INTGN POR, SLI CALC, NO
 ODOR/ FLUOR/ CUT, TR DD
 ASPH STN

SS: LT GY/ FRST- WH, FL
 SBRD PRED WELL SRTD QTZ
 GNS, SM GRD TO FL GN, SM
 FU SBANG WELL SRTD W/
 VGD POR, SBRD, FRM- BRTL
 NON CALC CLSTRS W/ SCAT
 MD GY TR LT GRNSH GY VFN
 DETRIT, SM W/ MOD INTGN
 POR, NO ODOR/ CUT/ FLOAT,
 SCAT DD ASPH STN, SM BUFF-
 PNKSH BUFF LS, MCXLN,
 BLKY- PLTY, BRTL, DULL
 YELGLD MIN FLUOR

SH: GY- GYBRN, FN TEX,
 PLTY, FRM, SLI- NON CALC, SM
 GRD TO MD TEX, MICRO MICA,
 SLI- MOD CALC, SM GRD TO
 SLTSTN, FRM/ MOD CALC,
 INTBD SS, GY- FRST, VFM-FL
 CLSTRS, SCAT INTGN POR,
 SCAT DD ASPH STN, NO
 ODOR/ FLOAT/ FLUOR

SH: PRED DULL LT- MD GY,
 MD- FN TEX, BLKY- PLTY,
 BRTL, SM GYBRN, SLI- NON
 CALC, MICRO MICA IP, SM W/
 MICRO DK CARB DETRIT, SM
 GRD TO SLTSTN, FRM

SH: MSTLY MED GRY, SME LT

KD

KD

KD

KD

KD

KD

45U CG

101U CG

71U CG

BOYER #6-3

80U CG

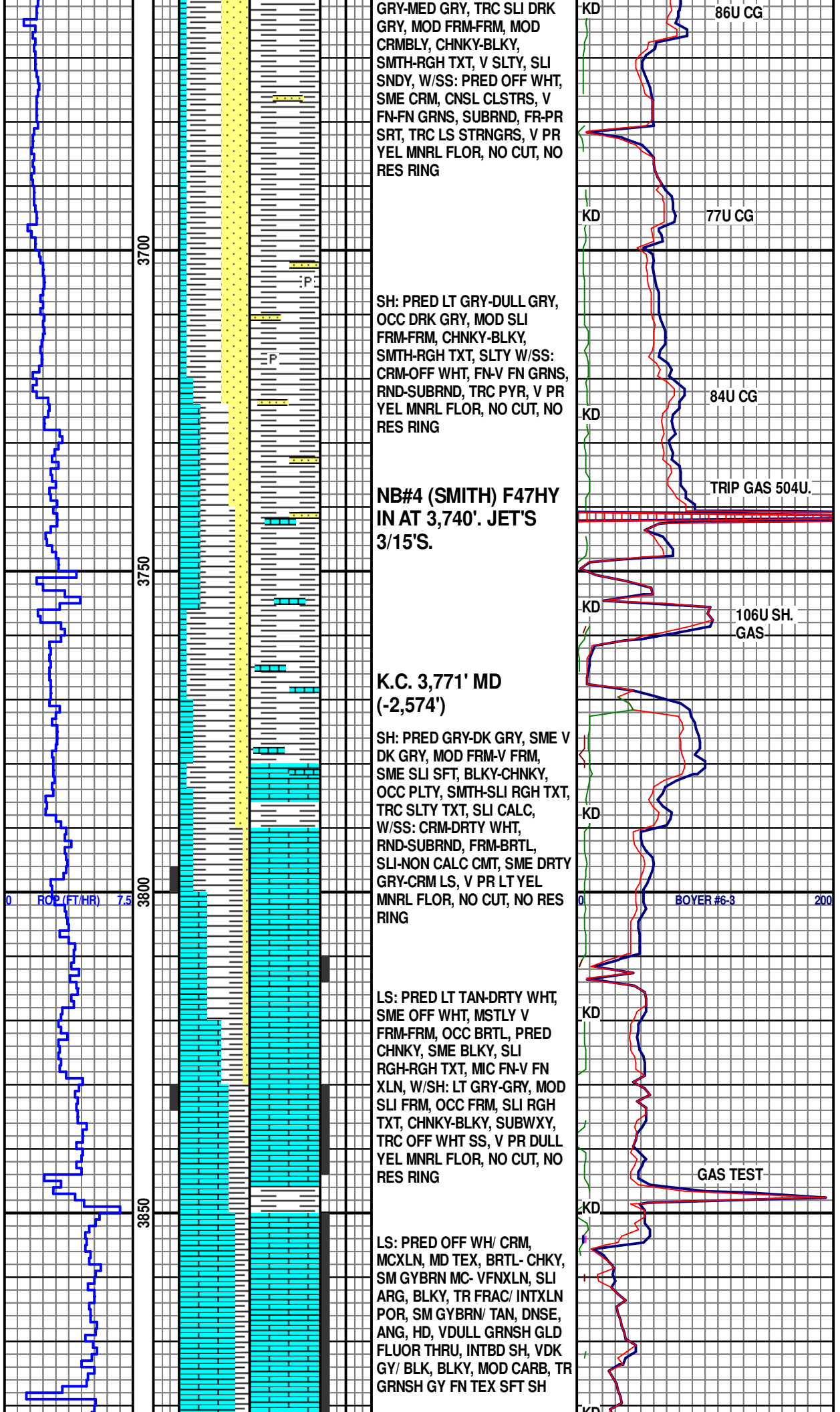
FLOW LINE
 PLUGGED.

WASHOUT HOLE
FROM 3,500' TO
3,740'

3/16/2017

WOB 35K
RPM 85
SPM 57
PP 600

MUD DATA
AT 3,877'
WT 9.1
VIS 52
PV 13
YP 24



GRY-MED GRY, TRC SLI DRK
GRY, MOD FRM-FRM, MOD
CRMBLY, CHNKY-BLKY,
SMTH-RGH TXT, V SLTY, SLI
SNDY, W/SS: PRED OFF WHT,
SME CRM, CNSL CLSTRS, V
FN-FN GRNS, SUBRND, FR-PR
SRT, TRC LS STRNGRS, V PR
YEL MNRL FLOR, NO CUT, NO
RES RING

SH: PRED LT GRY-DULL GRY,
OCC DRK GRY, MOD SLI
FRM-FRM, CHNKY-BLKY,
SMTH-RGH TXT, SLTY W/SS:
CRM-OFF WHT, FN-V FN GRNS,
RND-SUBRND, TRC PYR, V PR
YEL MNRL FLOR, NO CUT, NO
RES RING

**NB#4 (SMITH) F47HY
IN AT 3,740'. JET'S
3/15'S.**

**K.C. 3,771' MD
(-2,574')**

SH: PRED GRY-DK GRY, SME V
DK GRY, MOD FRM-V FRM,
SME SLI SFT, BLKY-CHNKY,
OCC PLTY, SMTH-SLI RGH TXT,
TRC SLTY TXT, SLI CALC,
W/SS: CRM-DRTY WHT,
RND-SUBRND, FRM-BRTL,
SLI-NON CALC CMT, SME DRTY
GRY-CRM LS, V PR LT YEL
MNRL FLOR, NO CUT, NO RES
RING

LS: PRED LT TAN-DRTY WHT,
SME OFF WHT, MSTLY V
FRM-FRM, OCC BRTL, PRED
CHNKY, SME BLKY, SLI
RGH-RGH TXT, MIC FN-V FN
XLN, W/SH: LT GRY-GRY, MOD
SLI FRM, OCC FRM, SLI RGH
TXT, CHNKY-BLKY, SUBWXY,
TRC OFF WHT SS, V PR DULL
YEL MNRL FLOR, NO CUT, NO
RES RING

LS: PRED OFF WH/ CRM,
MCXLN, MD TEX, BRTL-CHKY,
SM GYBRN MC- VFNXLN, SLI
ARG, BLKY, TR FRAC/ INTXLN
POR, SM GYBRN/ TAN, DNSE,
ANG, HD, VDULL GRNSH GLD
FLUOR THRU, INTBD SH, VDK
GY/ BLK, BLKY, MOD CARB, TR
GRNSH GY FN TEX SFT SH

86U CG

77U CG

84U CG

TRIP GAS 504U.

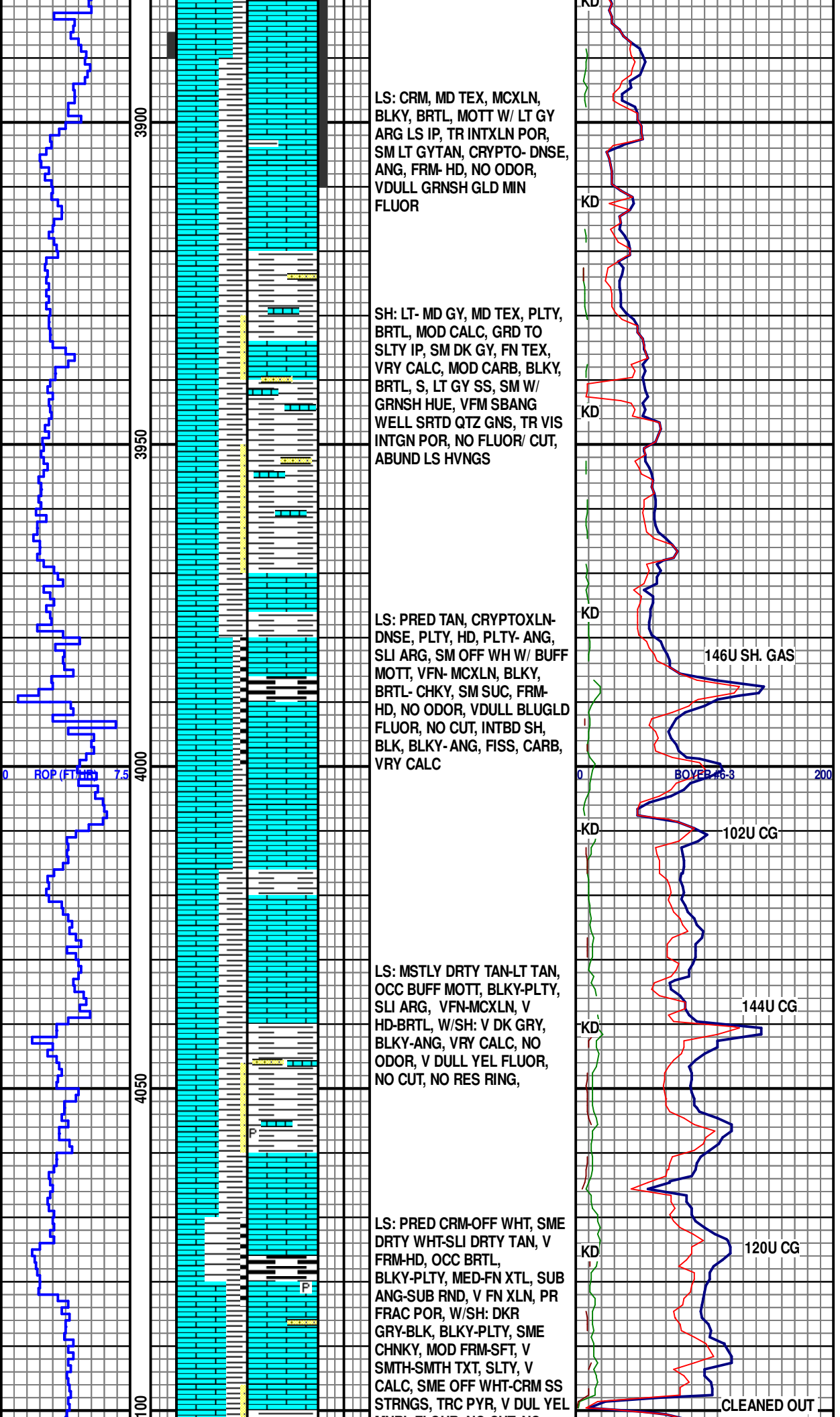
106U SH.
GAS

BOYER #6-3

GAS TEST

GEL 15/47
PH 12.5
FIL 9.6
CK 1
CL 10K
CA 80
SOL 5.1
LCM #2

WOB 35K
RPM 85
SPM 57
PP 700



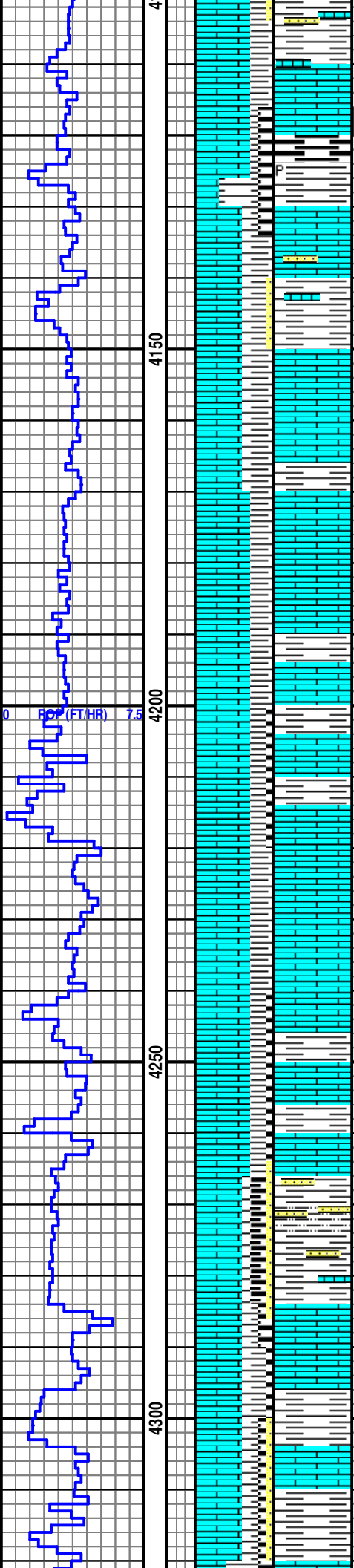
3/17/2016

WOB 35K
RPM 85
SPM 57
PP 700

WOB 36K
RPM 80-85
SPM 57
PP 700

MUD DATA
AT 4,272'
WT 9.1
VIS 52
PV 15
YP 25
GEL 22/48
PH 12.5
FIL 9.6
CK 1
CL 9K
CA 80
SOL 5.2
LCM #2

WOB 36K



MNRL FLOUR, NO CUT, NO RES RING

MARMATON 4,114' (-2,917')

LS: PRED DRTY WHT-CRM, SME LT TAN, V HD-BRTL, OCC FRM, BLKY-CHNKY, SUB ANG, V FN-MCXLN, PR FAC POR, W/SH: V DK GRY-GRY, OCC BLK CARB, BLKY-PLTY, SME CHNKY, SLI FRM-FRM, SLI RGH-SMTH TXT, WXY-SUB WXY, V CALC, SME OFF WHT SS STRNGS, TRC PYR, SLI DULL LT YEL MINRFL FLOUR, NO CUT, NO RES RING

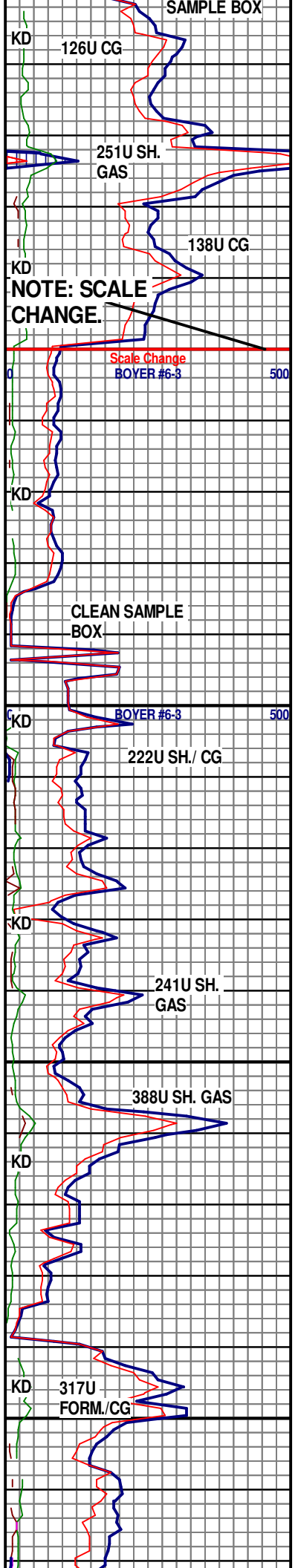
LS: MSTLY CRM-DRTY TAN, OCC LT DRTY TAN, V FRM-HD, SME BRTL, BLKY-CHNKY, SUB RND, MED-FN XTLN, PR-FR FRAC POR, W/SH: DK GRY-V DK GRY, TRC BLK CARB, MOD SFT-SLI FRM, SME FRM, PRED PLTY-BLKY, SLI RGH TXT, OCC SMTH TXT, SLTY, V DUL LT YEL MIN FLOUR, NO CUT, NO RES RING

LS: BUFF- GYTAN, MC-CRYPTO XLN, PLTY-BLKY FRM-HD, TR MICRO FRAC POR, SCAT DULL YEL MIN FLUOR, NO ODOR/ CUT, INTBD SH, PRED BLK- VDK GY, FN TEX, BLKY, CARB, MOD CALC, WEAK BLU RES CUT, SM MD GY, PLTY, CALC, GRD TO SLTY IP

CHEROKEE 4,258' (-3,061')

SH: MD GY, MD- SLTY TEX, PLTY, BRTL, SM DK GY, FN TEX, BLKY, BRTL, SM GY-DRTY GY SS, VFM SBRD GN, MOD CONS, PRED ARG, NO FLUOR/ CUT/ ODOR

LS: CRM- LT GYTAN, MCXLN, BLKY, FRM, SM GY/ DNSE, PLTY, SLI- MOD ARG, TR MICRO FRAC/ INTXLN POR, NO ODOR, SLO FEINT YEL RES CUT, INTBD SH, PRED BLK-VDK GY, CARB, CALC, NO FLUOR, VWEAK BLU RES CUT



SAMPLE BOX

126U CG

251U SH. GAS

138U CG

NOTE: SCALE CHANGE.

Scale Change ROVER #6-3

CLEAN SAMPLE BOX

BOVER #6-3

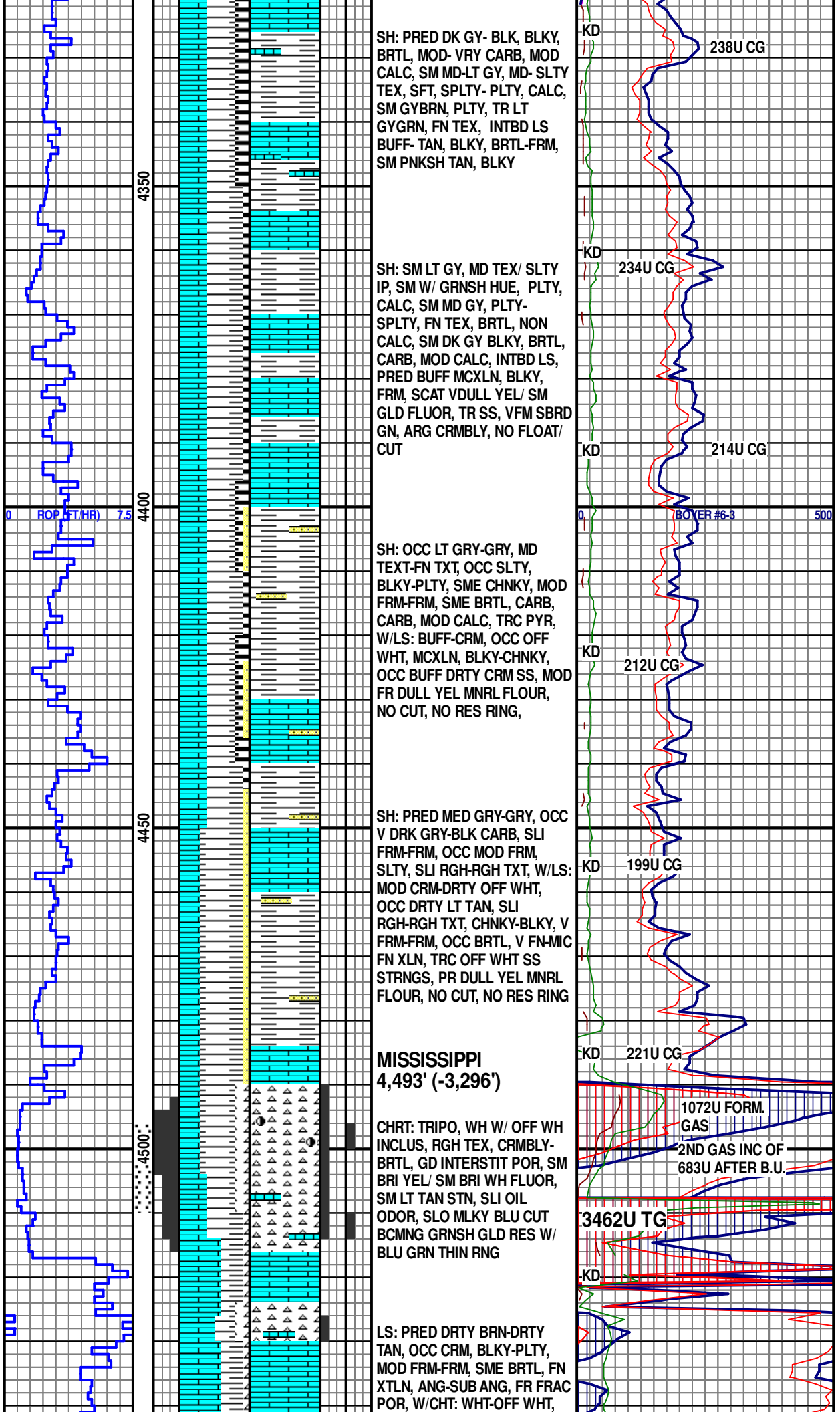
222U SH./ CG

241U SH. GAS

388U SH. GAS

317U FORM./CG

RPM 80-85
SPM 57
PP 700



SH: PRED DK GY- BLK, BLKY, BRTL, MOD- VRY CARB, MOD CALC, SM MD-LT GY, MD- SLTY TEX, SFT, SPLTY- PLTY, CALC, SM GYBRN, PLTY, TR LT GYGRN, FN TEX, INTBD LS BUFF- TAN, BLKY, BRTL-FRM, SM PNKSH TAN, BLKY

SH: SM LT GY, MD TEX/ SLTY IP, SM W/ GRNSH HUE, PLTY, CALC, SM MD GY, PLTY- SPLTY, FN TEX, BRTL, NON CALC, SM DK GY BLKY, BRTL, CARB, MOD CALC, INTBD LS, PRED BUFF MCXLN, BLKY, FRM, SCAT VDULL YEL/ SM GLD FLUOR, TR SS, VFM SBRD GN, ARG CRMBLY, NO FLOAT/ CUT

SH: OCC LT GRY-GRY, MD TEXT-FN TXT, OCC SLTY, BLKY-PLTY, SME CHNKY, MOD FRM-FRM, SME BRTL, CARB, CARB, MOD CALC, TRC PYR, W/LS: BUFF-CRM, OCC OFF WHT, MCXLN, BLKY-CHNKY, OCC BUFF DRTY CRM SS, MOD FR DULL YEL MNRL FLOUR, NO CUT, NO RES RING,

SH: PRED MED GRY-GRY, OCC V DRK GRY-BLK CARB, SLI FRM-FRM, OCC MOD FRM, SLTY, SLI RGH-RGH TXT, W/LS: MOD CRM-DRTY OFF WHT, OCC DRTY LT TAN, SLI RGH-RGH TXT, CHNKY-BLKY, V FRM-FRM, OCC BRTL, V FN-MIC FN XLN, TRC OFF WHT SS STRNGS, PR DULL YEL MNRL FLOUR, NO CUT, NO RES RING

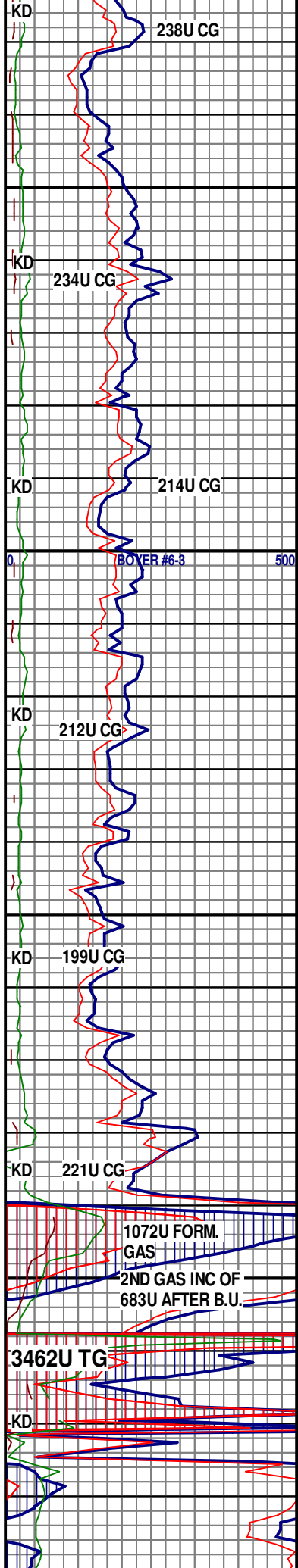
MISSISSIPPI
4,493' (-3,296')

CHRT: TRIPO, WH W/ OFF WH INCLUS, RGH TEX, CRMBLY- BRTL, GD INTERSTIT POR, SM BRI YEL/ SM BRI WH FLUOR, SM LT TAN STN, SLI OIL ODOR, SLO MLKY BLU CUT BCMNG GRNSH GLD RES W/ BLU GRN THIN RING

LS: PRED DRTY BRN-DRTY TAN, OCC CRM, BLKY-PLTY, MOD FRM-FRM, SME BRTL, FN XTLN, ANG-SUB ANG, FR FRAC POR, W/CHT: WHT-OFF WHT,

D.S.T. #1
AT 4,491'- 4,508'.
CIRC. AT 4,508'.
3/18/2017
RR BIT #4

MUD DATA
AT 4,507'
WT 9.2
VIS 74
PV 17
YP 51
GEL 40/65



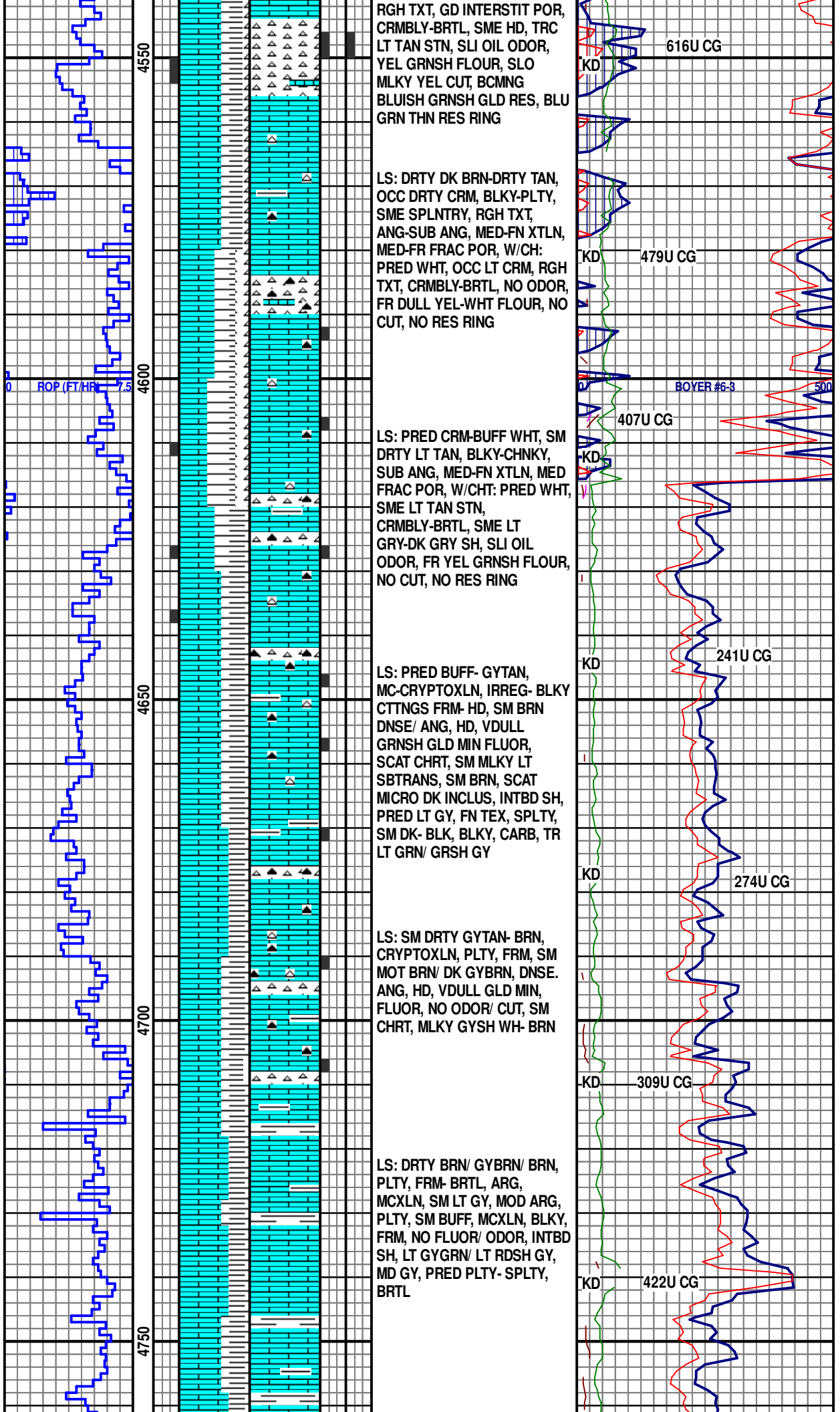
PH 12.5
FIL 9.2
CK 1
CL 8K
CA 80
SOL 5.9
LCM #4

WOB 38K
RPM 80-85
SPM 57
PP 700

3/19/2017

MUD DATA
AT 4.690'
WT 9
VIS 52
PV 15
YP 25
GEL 18/48
PH 12.5
FIL 9.2
CK 1
CL 11K
CA 80
SOL 4.3
LCM #4

WOB 38K
RPM 80-85
SPM 57
PP 700



3/20/2017

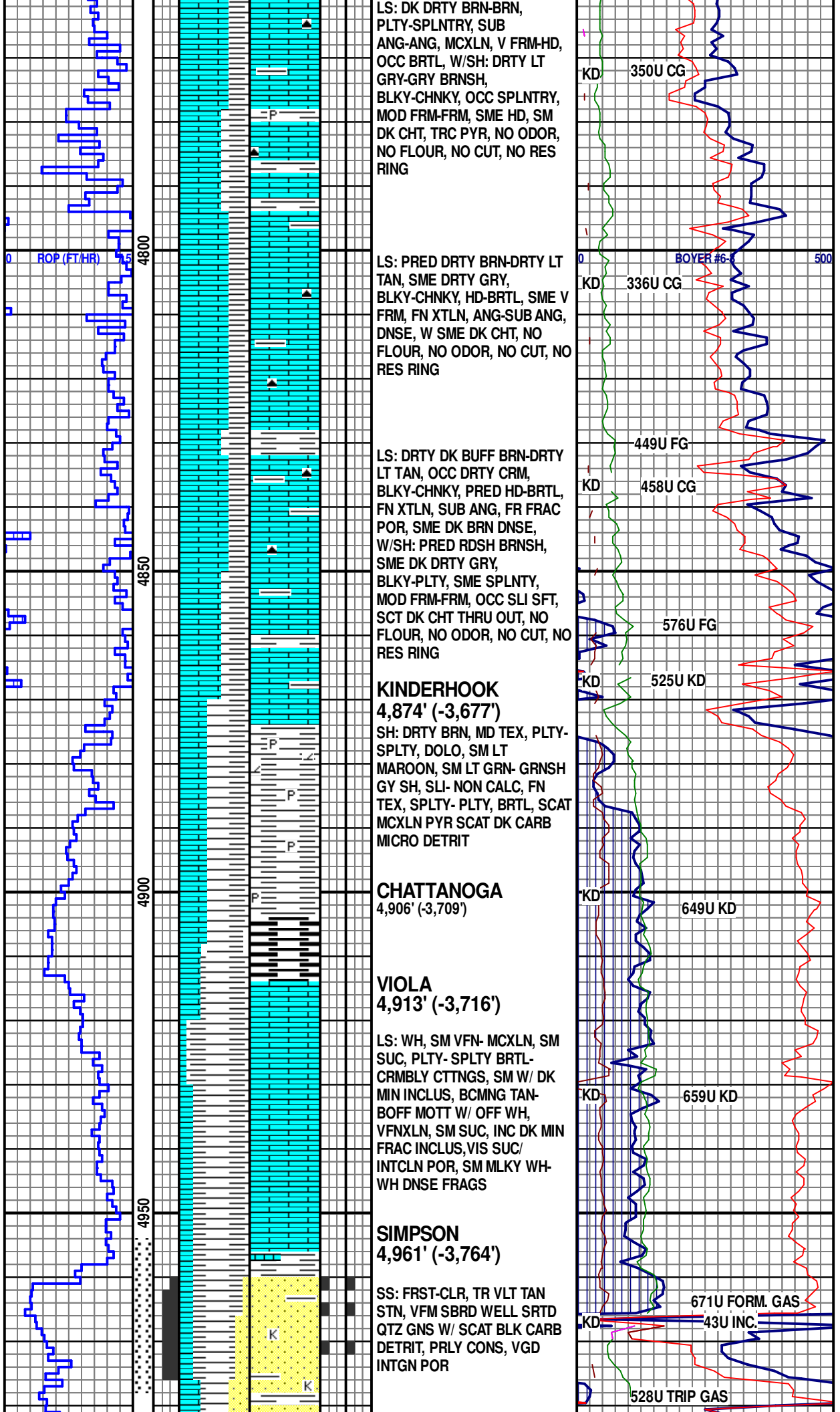
WOB 38K
RPM 80-85
SPM 57
PP 750

WOB 38-40K
RPM 80
SPM 57
PP 700

MUD DATA
AT 4,940'
WT 9
VIS 57
PV 15
YP 30
GEL 19/52
PH 12.5
FIL 9.8
CK 1
CL 8500
SOL 4.4
LCM #4

DST #2
CIRC. AT 4,966'

3/21/2017
RR BIT #4
4,955'-4,966'
DST #3



LS: DK DRTY BRN-BRN, PLTY-SPLNTRY, SUB ANG-ANG, MCXLN, V FRM-HD, OCC BRTL, W/SH: DRTY LT GRY-GRY BRNSH, BLKY-CHNKY, OCC SPLNTRY, MOD FRM-FRM, SME HD, SM DK CHT, TRC PYR, NO ODOR, NO FLOUR, NO CUT, NO RES RING

LS: PRED DRTY BRN-DRTY LT TAN, SME DRTY GRY, BLKY-CHNKY, HD-BRTL, SME V FRM, FN XTLN, ANG-SUB ANG, DNSE, W SME DK CHT, NO FLOUR, NO ODOR, NO CUT, NO RES RING

LS: DRTY DK BUFF BRN-DRTY LT TAN, OCC DRTY CRM, BLKY-CHNKY, PRED HD-BRTL, FN XTLN, SUB ANG, FR FRAC POR, SME DK BRN DNSE, W/SH: PRED RDSH BRNSH, SME DK DRTY GRY, BLKY-PLTY, SME SPLNTY, MOD FRM-FRM, OCC SLI SFT, SCT DK CHT THRU OUT, NO FLOUR, NO ODOR, NO CUT, NO RES RING

KINDERHOOK
4,874' (-3,677')
SH: DRTY BRN, MD TEX, PLTY-SPLTY, DOLO, SM LT MAROON, SM LT GRN- GRNSH GY SH, SLI- NON CALC, FN TEX, SPLTY- PLTY, BRTL, SCAT MCXLN PYR SCAT DK CARB MICRO DETRIT

CHATTANOGA
4,906' (-3,709')

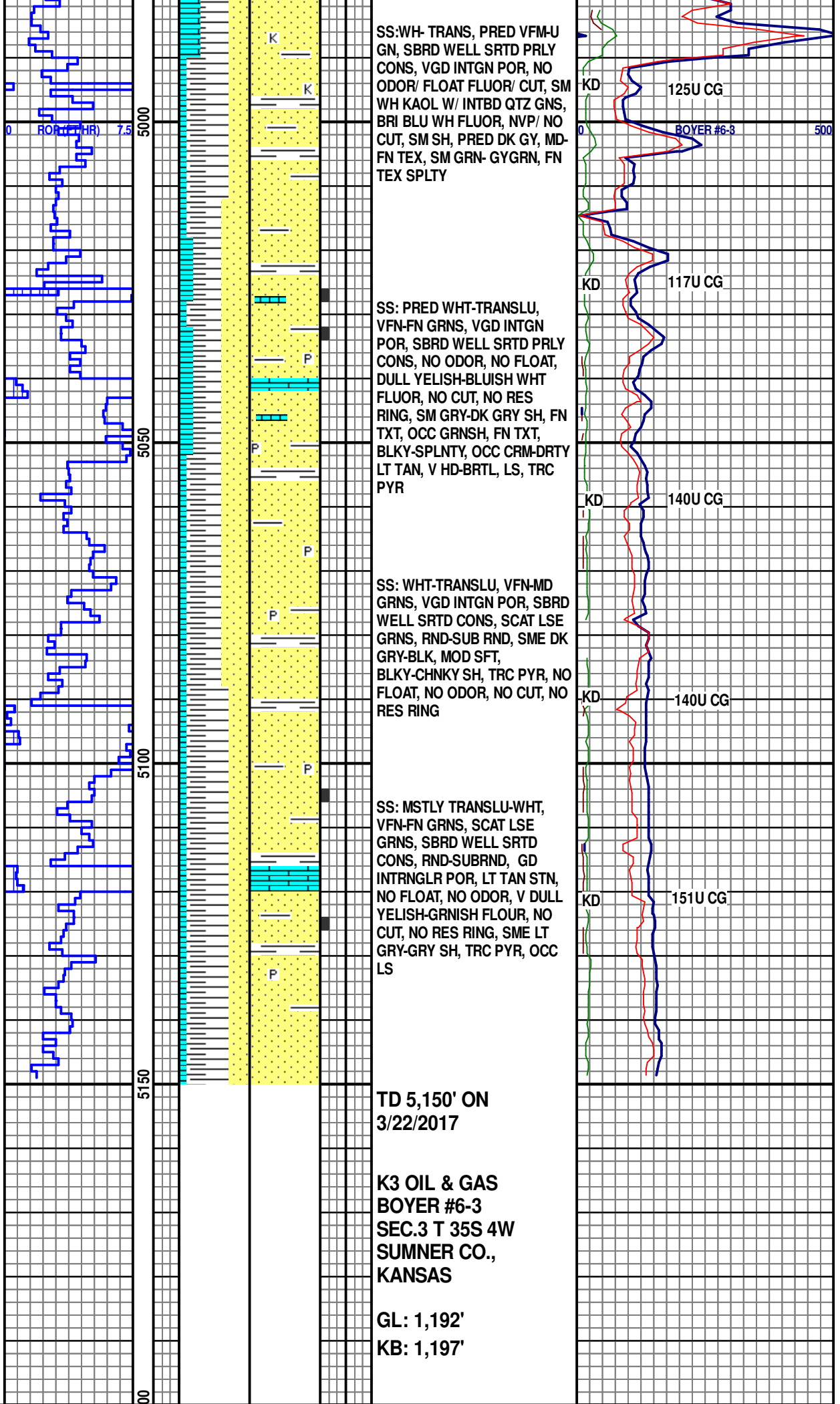
VIOLA
4,913' (-3,716')
LS: WH, SM VFN- MCXLN, SM SUC, PLTY- SPLTY BRTL- CRMBLY CTTNGS, SM W/ DK MIN INCLUS, BCMNG TAN-BOFF MOTT W/ OFF WH, VFNXLN, SM SUC, INC DK MIN FRAC INCLUS, VIS SUC/ INTCLN POR, SM MLKY WH- WH DNSE FRAGS

SIMPSON
4,961' (-3,764')

SS: FRST-CLR, TR VLT TAN STN, VFM SBRD WELL SRTD QTZ GNS W/ SCAT BLK CARB DETRIT, PRLY CONS, VGD INTGN POR

WOB 35-40K
RPM 85
SPM 57
PP 700

3/22/2017



SS:WH- TRANS, PRED VFM-U GN, SBRD WELL SRTD PRLY CONS, VGD INTGN POR, NO ODOR/ FLOAT FLUOR/ CUT, SM WH KAOL W/ INTBD QTZ GNS, BRI BLU WH FLUOR, NVP/ NO CUT, SM SH, PRED DK GY, MD-FN TEX, SM GRN- GYGRN, FN TEX SPLTY

SS: PRED WHT-TRANSLU, VFN-FN GRNS, VGD INTGN POR, SBRD WELL SRTD PRLY CONS, NO ODOR, NO FLOAT, DULL YELISH-BLUSH WHT FLUOR, NO CUT, NO RES RING, SM GRY-DK GRY SH, FN TXT, OCC GRNSH, FN TXT, BLKY-SPLNTY, OCC CRM-DRTY LT TAN, V HD-BRTL, LS, TRC PYR

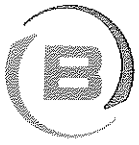
SS: WHT-TRANSLU, VFN-MD GRNS, VGD INTGN POR, SBRD WELL SRTD CONS, SCAT LSE GRNS, RND-SUB RND, SME DK GRY-BLK, MOD SFT, BLKY-CHNKY SH, TRC PYR, NO FLOAT, NO ODOR, NO CUT, NO RES RING

SS: MSTLY TRANSLU-WHT, VFN-FN GRNS, SCAT LSE GRNS, SBRD WELL SRTD CONS, RND-SUBRND, GD INTRNGLR POR, LT TAN STN, NO FLOAT, NO ODOR, V DULL YELISH-GRNISH FLOUR, NO CUT, NO RES RING, SME LT GRY-GRY SH, TRC PYR, OCC LS

TD 5,150' ON
3/22/2017

K3 OIL & GAS
BOYER #6-3
SEC.3 T 35S 4W
SUMNER CO.,
KANSAS

GL: 1,192'
KB: 1,197'



BASIC ENERGY SERVICES

APR - 5 2017

PAGE 1 of 1	CUST NO 1009504	YARD # 1718	INVOICE DATE 03/29/2017
INVOICE NUMBER 92385200			

Pratt (620) 672-1201

B K3 OIL & GAS
I 24900 PITKIN RD, SUITE 305
L THE WOODLANDS
L TX US 77386
T
O ATTN: SELIGMAN

J LEASE NAME Boyer 6-3
O LOCATION
B COUNTY Sumner
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T
E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41011759	86779		Net - 30 days	04/28/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 03/23/2017 to 03/23/2017				
0041011759				
171815030A Cement-New Well Casing/Pi 03/23/2017 Cement 5 1/2" Longstring				
50/50 POZ	380.00	EA	5.17	1,964.60 T
Celloflake	93.00	EA	1.74	161.73 T
Salt	1,976.00	EA	0.24	464.36 T
Gypsum	1,600.00	EA	0.35	564.00 T
FLA-322	160.00	EA	3.53	564.00 T
Gilsonite	1,904.00	EA	0.31	599.57 T
Mud Flush	500.00	EA	0.71	352.50 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	188.00	188.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	169.20	169.20
"Turbolizer, 5 1/2" (Blue)"	12.00	EA	51.70	620.40
"5 1/2" Basket (Blue)"	2.00	EA	136.30	272.60
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.12	211.50
Heavy Equipment Mileage	200.00	MI	3.53	705.00
"Proppant & Bulk Del. Chgs., per ton mil	1,600.00	EA	1.18	1,880.00
Blending & Mixing Service Charge	380.00	BAG	0.66	250.04
Plug Container Util. Chg.	1.00	EA	117.50	117.50
Depth Charge; 5001-6000	1.00	EA	1,353.60	1,353.60
"Service Supervisor, first 8 hrs on loc.	1.00	EA	82.25	82.25

Company _____
Well Name **Boyer 6-3**
GA Account **9210**
Approval

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	10,520.85
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	326.95
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	10,847.80
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



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MAR 30 2017
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PAGE 1 of 1	CUST NO 1009504	YARD # 1718	INVOICE DATE 03/23/2017
INVOICE NUMBER 92381047			

Pratt
B K3 OIL & GAS
I 24900 PITKIN RD, SUITE 305
L THE WOODLANDS
L TX US 77386
T
O ATTN: SELIGMAN

(620) 672-1201

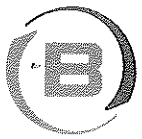
J
O
B
S
I
T
E
LEASE NAME Boyer 6-3
LOCATION
COUNTY Sumner
STATE KS
JOB DESCRIPTION Cement-New Well Casing/Pi
JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41010641	19843		Net - 30 days	04/22/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 03/11/2017 to 03/11/2017</i>				
0041010641				
171815007A Cement-New Well Casing/Pi 03/11/2017				
Cement Surface Casing				
A-Serv Lite	165.00	EA	6.11	1,008.15 T
60/40 POZ	110.00	EA	5.64	620.40 T
Celloflake	70.00	EA	1.74	121.73 T
Calcium Chloride	717.00	EA	0.49	353.84 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	105.75	105.75
"Unit Mileage Chg (PU, cars one way)"	85.00	MI	2.11	179.77
Heavy Equipment Mileage	170.00	MI	3.53	599.25
"Proppant & Bulk Del. Chgs., per ton mil	1,195.00	EA	1.17	1,404.12
Blending & Mixing Service Charge	275.00	BAG	0.66	180.95
Plug Container Util. Chg.	1.00	EA	117.50	117.50
Depth Charge; 0-500'	1.00	EA	470.00	470.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	82.26	82.26
Company				
Well Name				
G/L Account				
Approval				

Company
Well Name *Boyer 6-3*
G/L Account *9210*
Approval *[Signature]*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,243.72
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	147.29
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	5,391.01
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASIC
ENERGY SERVICES

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PAGE 1 of 1	CUST NO 1009504	YARD # 1718	INVOICE DATE 04/30/2017
INVOICE NUMBER 92412603			

Pratt (620) 672-1201

B K3 OIL & GAS
I 24900 PITKIN RD, SUITE 305
L THE WOODLANDS
L TX US 77386
T
O ATTN: SELIGMAN

J LEASE NAME Boyer 6-3
O LOCATION
B COUNTY Sumner
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41020059	19843		Net - 30 days	05/30/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 04/26/2017 to 04/26/2017</i>				
0041020059				
171814955A Cement-New Well Casing/Pi 04/26/2017				
Cement Squeeze				
Common Cement	50.00	EA	8.48	424.00 T
28% HCL Acid	250.00	GAL	1.96	490.25 T
CIA-1 EP Acid Inhibitor	1.00	EA	39.75	39.75 T
Surfactant 285	1.00	EA	21.20	21.20 T
C-18L Fluid Loss	5.00	EA	25.44	127.20 T
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.39	238.50
Heavy Equipment Mileage	200.00	MI	3.98	795.00
"Proppant & Bulk Del. Chgs., per ton mil	235.00	EA	1.32	311.37
Blending & Mixing Service Charge	50.00	BAG	0.74	37.10
Cement Squeeze Manifold	1.00	EA	265.00	265.00
Depth Charge; 4001'-5000'	1.00	EA	1,335.60	1,335.60
"Service Supervisor, first 8 hrs on loc.	1.00	EA	92.76	92.76

Company _____
Well Name *Boyer 6-3*
G/L Account *9310*
Approval *[Signature]*

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	SUB TOTAL TAX INVOICE TOTAL	4,177.73 82.68 4,260.41
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PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1009504	1718	05/09/2017
INVOICE NUMBER			
92418734			

RECEIVED
MAY 10 2017

Pratt (620) 672-1201
 B K3 OIL & GAS
 I 24900 PITKIN RD, SUITE 305
 L THE WOODLANDS
 TX US 77386
 T
 O ATTN: SELIGMAN

J LEASE NAME Boyer 6-3
 O LOCATION
 B COUNTY Sumner
 S STATE KS
 I JOB DESCRIPTION Acid Clean Tub / Casing-N
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41022737	81547		Net - 30 days	06/08/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/02/2017 to 05/02/2017</i>				
0041022737				
171815075A Acid Clean Tub / Casing-N 05/02/2017 Acid Breakdown				
15% HCL Acid	1,000.00	GAL	1.30	1,300.00
NE Acid Conversion	1,000.00	EA	.08	78.00
CIA-1 EP Acid Inhibitor	2.00	EA	48.75	97.50
Clayplex 302 Clay Stabilizer	2.00	EA	24.70	49.40
Surfactant 285	2.00	EA	26.00	52.00
Heavy Equipment Mileage	100.00	MI	4.88	487.50
Unit Mileage Charge-pickups, vans & cars	100.00	HR	2.93	292.50
Acid Pump	1.00	HR	585.00	585.00
Service Supervisor	1.00	HR	113.75	113.75
Company _____ Well Name <i>Boyer 6-3</i> G/L Account <i>9374</i> Approval <i>[Signature]</i>				

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,055.65
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	0.00
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,055.65
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Company**

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

ATTN: John Rigas

Boyer #6-3

3-35S-4W Sumner,KS

Start Date: 2017.03.18 @ 05:18:05

End Date: 2017.03.18 @ 12:54:51

Job Ticket #: 58121 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.22 @ 10:11:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas Operating Company

3-35S-4W Sumner,KS

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

Boyer #6-3

Job Ticket: 58121

DST#: 1

ATTN: John Rigas

Test Start: 2017.03.18 @ 05:18:05

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:05:51
 Time Test Ended: 12:54:51
 Interval: **4492.00 ft (KB) To 4508.00 ft (KB) (TVD)**
 Total Depth: 4508.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1197.00 ft (KB)
 1192.00 ft (CF)
 KB to GR/CF: 5.00 ft

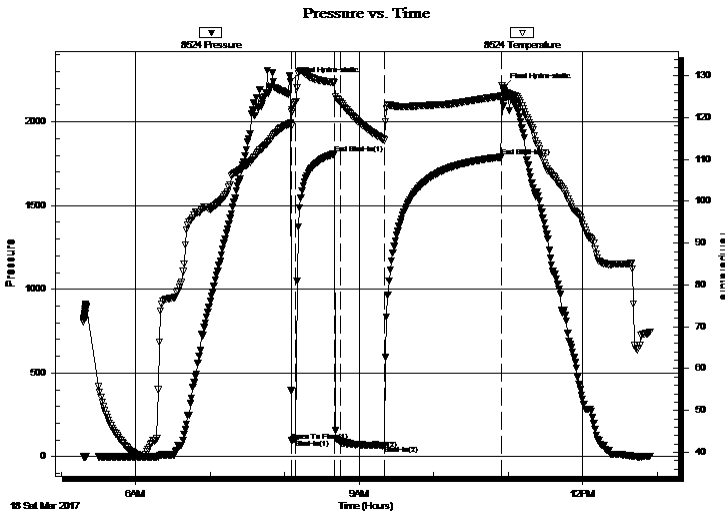
Serial #: 8524

Outside

Press@RunDepth: 65.56 psig @ 4505.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.18 End Date: 2017.03.18 Last Calib.: 2017.03.18
 Start Time: 05:18:06 End Time: 12:54:51 Time On Btm: 2017.03.18 @ 08:04:51
 Time Off Btm: 2017.03.18 @ 10:56:36

TEST COMMENT: 05- IF- BOB instantly
 30- IS- No blow
 45- FF- BOB instantly Gas to surface 2 mins
 90- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.17	118.69	Initial Hydro-static
1	95.02	121.34	Open To Flow (1)
4	106.87	123.72	Shut-In(1)
36	1809.25	128.43	End Shut-In(1)
40	96.37	123.71	Open To Flow (2)
76	65.56	114.63	Shut-In(2)
170	1789.59	125.13	End Shut-In(2)
172	2202.27	126.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	WM, 15%W 85%M	0.57
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	34.00	1391.44
Last Gas Rate	1.00	19.00	960.21
Max. Gas Rate	1.00	34.00	1391.44



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas Operating Company

3-35S-4W Sumner,KS

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

Boyer #6-3

Job Ticket: 58121

DST#: 1

ATTN: John Rigas

Test Start: 2017.03.18 @ 05:18:05

Tool Information

Drill Pipe:	Length: 4348.00 ft	Diameter: 3.82 inches	Volume: 61.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4492.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4466.00	
Shut In Tool	5.00			4471.00	
Hydraulic tool	5.00			4476.00	
Jars	5.00			4481.00	
Safety Joint	2.00			4483.00	
Packer	5.00			4488.00	27.00 Bottom Of Top Packer
Packer	4.00			4492.00	
Stubb	1.00			4493.00	
Perforations	12.00			4505.00	
Recorder	0.00	6838	Inside	4505.00	
Recorder	0.00	8524	Outside	4505.00	
Bullnose	3.00			4508.00	16.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas Operating Company

3-35S-4W Sumner,KS

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

Boyer #6-3

Job Ticket: 58121

DST#: 1

ATTN: John Rigas

Test Start: 2017.03.18 @ 05:18:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

64000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	WM, 15%W 85%M	0.566
0.00	GTS	0.000

Total Length: 115.00 ft Total Volume: 0.566 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .13@60deg



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

K3 Oil & Gas Operating Company

3-35S-4W Sumner,KS

24900 Pitkin Rd.Suite 305
The Woodlands, TX 77386

Boyer #6-3

Job Ticket: 58121

DST#: 1

ATTN: John Rigas

Test Start: 2017.03.18 @ 05:18:05

Gas Rates Information

Temperature: 59 (deg F)

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	5	1.00	34.00	1391.44
2	15	1.00	29.00	1247.70
2	25	1.00	23.00	1075.21
2	35	1.00	19.00	960.21

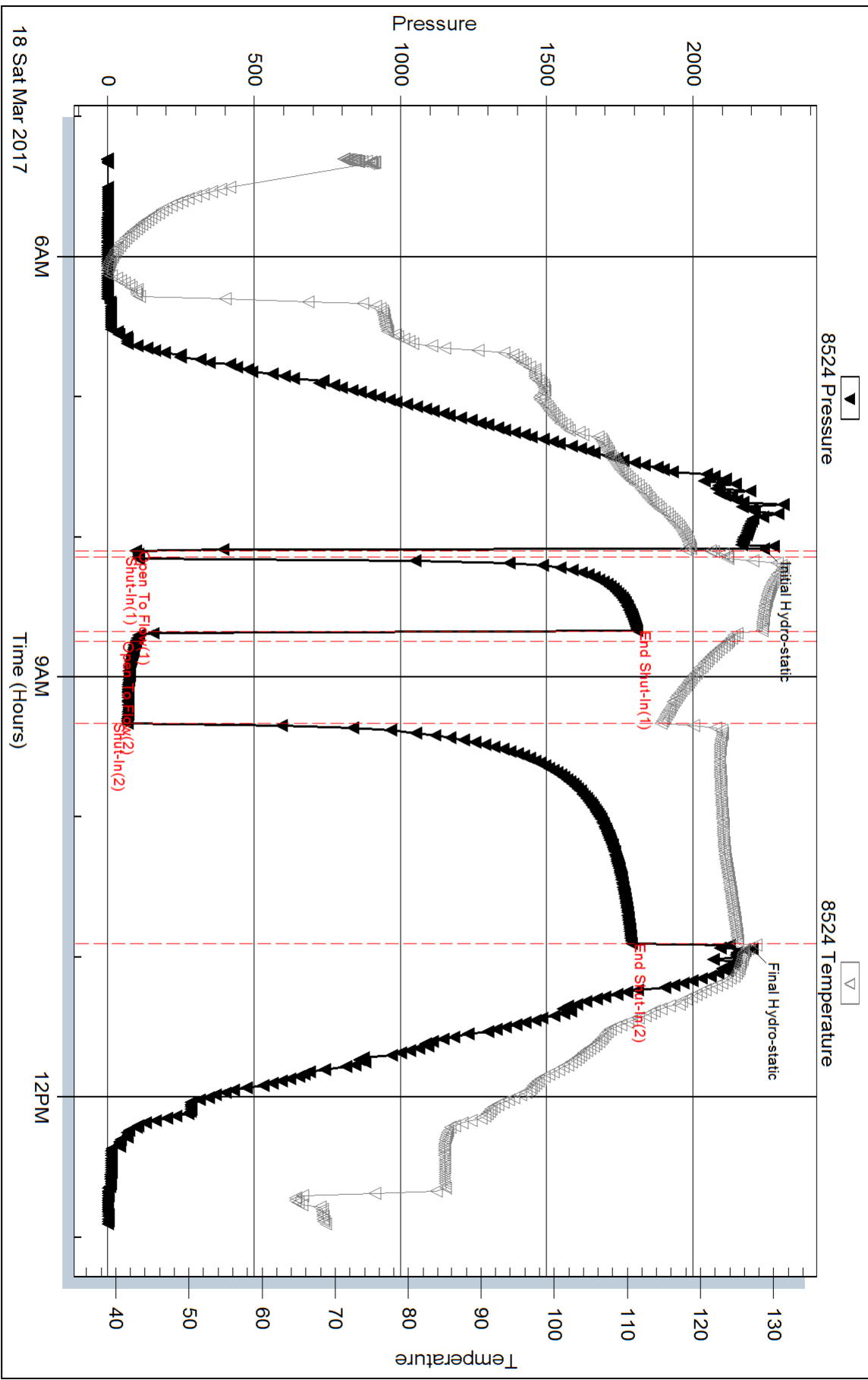
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Outside K3 Oil & Gas Operating Company

Boyer #6-3

DST Test Number: 1

Pressure vs. Time



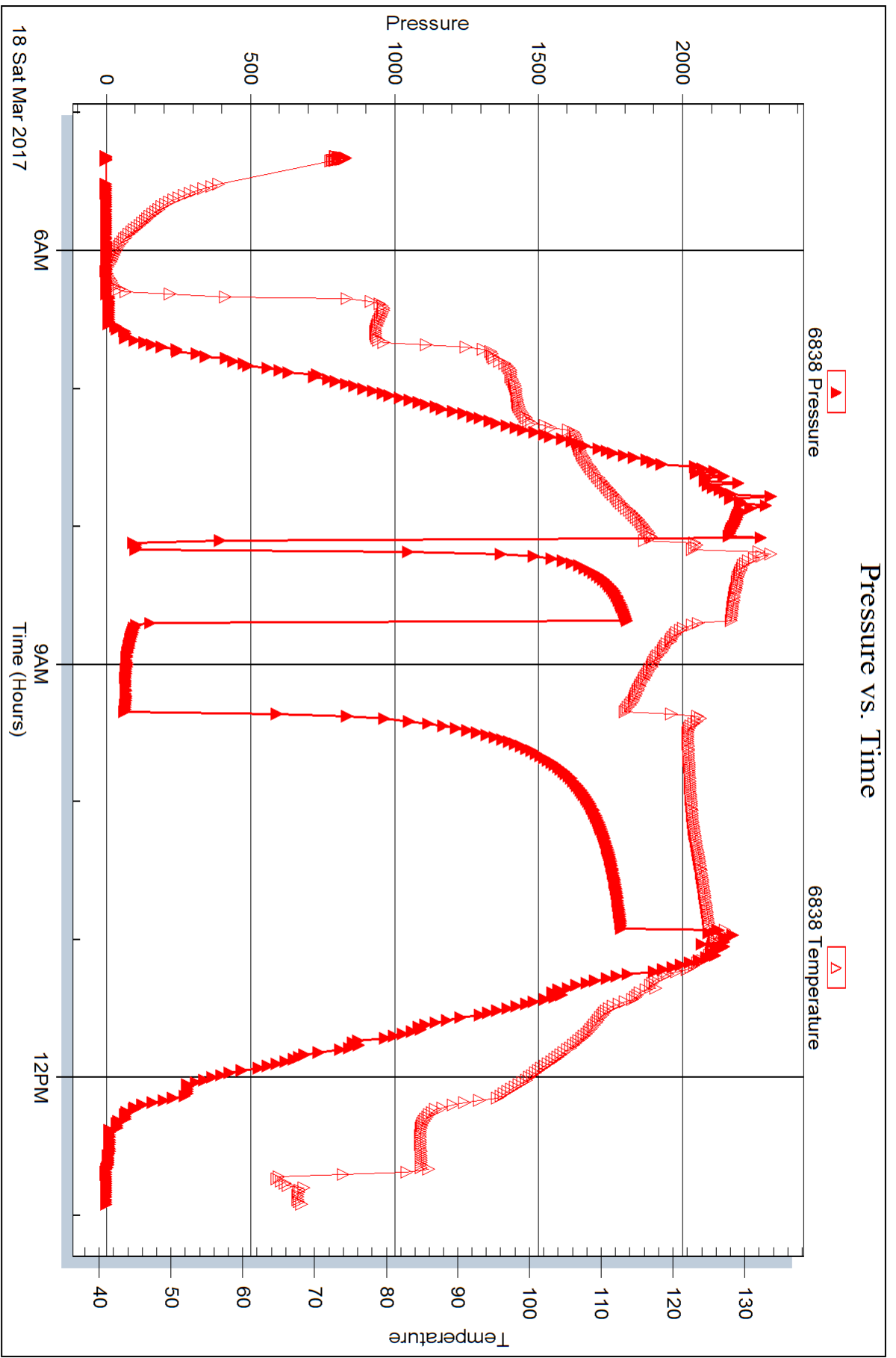
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Inside

K3 Oil & Gas Operating Company

Boyer #6-3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Company**

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

ATTN: John Rigas

Boyer #6-3

3-35S-4W Sumner,KS

Start Date: 2017.03.20 @ 15:04:00

End Date: 2017.03.20 @ 22:04:45

Job Ticket #: 63098 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.22 @ 10:16:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas Operating Company

3-35S-4W Sumner,KS

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

Boyer #6-3

Job Ticket: 63098

DST#: 2

ATTN: John Rigas

Test Start: 2017.03.20 @ 15:04:00

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:09:00

Time Test Ended: 22:04:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 4955.00 ft (KB) To 4966.00 ft (KB) (TVD)

Reference Elevations: 1197.00 ft (KB)

Total Depth: 4966.00 ft (KB) (TVD)

1192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 9124 Outside

Press@RunDepth: 54.35 psig @ 4956.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.20

End Date:

2017.03.20

Last Calib.:

2017.03.20

Start Time: 15:04:05

End Time:

22:04:44

Time On Btm:

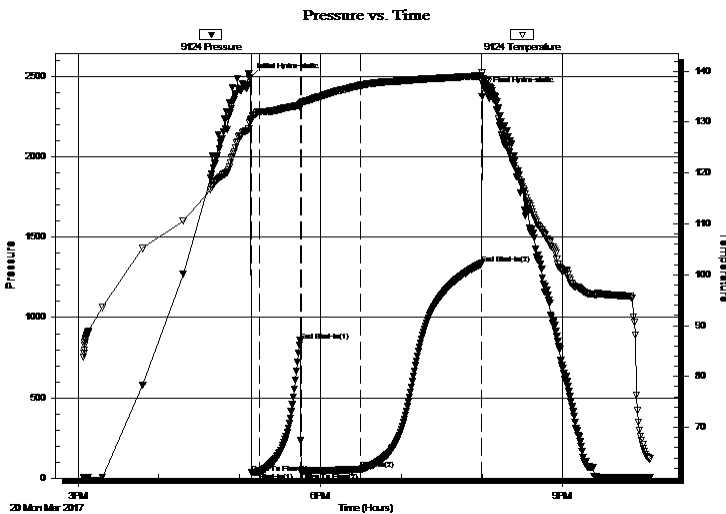
2017.03.20 @ 17:08:00

Time Off Btm:

2017.03.20 @ 20:03:00

TEST COMMENT: IF - Weak blow building to 2"
ISI - No blow back
FF - Weak blow building to 2"
FSI - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2492.27	130.30	Initial Hydro-static
1	32.87	130.75	Open To Flow (1)
7	36.03	132.09	Shut-In(1)
37	856.04	133.35	End Shut-In(1)
38	39.14	133.61	Open To Flow (2)
82	54.35	137.25	Shut-In(2)
172	1336.03	139.12	End Shut-In(2)
175	2405.27	138.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Very slight oil cut mud TR O & 100% M	0.44
0.00	30' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas Operating Company

3-35S-4W Sumner,KS

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

Boyer #6-3

Job Ticket: 63098

DST#: 2

ATTN: John Rigas

Test Start: 2017.03.20 @ 15:04:00

Tool Information

Drill Pipe:	Length: 4828.00 ft	Diameter: 3.80 inches	Volume: 67.72 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 68.31 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4955.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4928.00	
Shut In Tool	5.00			4933.00	
Hydraulic tool	5.00			4938.00	
Jars	5.00			4943.00	
Safety Joint	3.00			4946.00	
Packer	4.00			4950.00	28.00 Bottom Of Top Packer
Packer	5.00			4955.00	
Stubb	1.00			4956.00	
Recorder	0.00	9124	Outside	4956.00	
Recorder	0.00	6798	Inside	4956.00	
Perforations	5.00			4961.00	
Bullnose	5.00			4966.00	11.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas Operating Company

3-35S-4W Sumner,KS

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

Boyer #6-3

Job Ticket: 63098

DST#: 2

ATTN: John Rigas

Test Start: 2017.03.20 @ 15:04:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Very slight oil cut mud TRO & 100% M	0.443
0.00	30' GIP	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

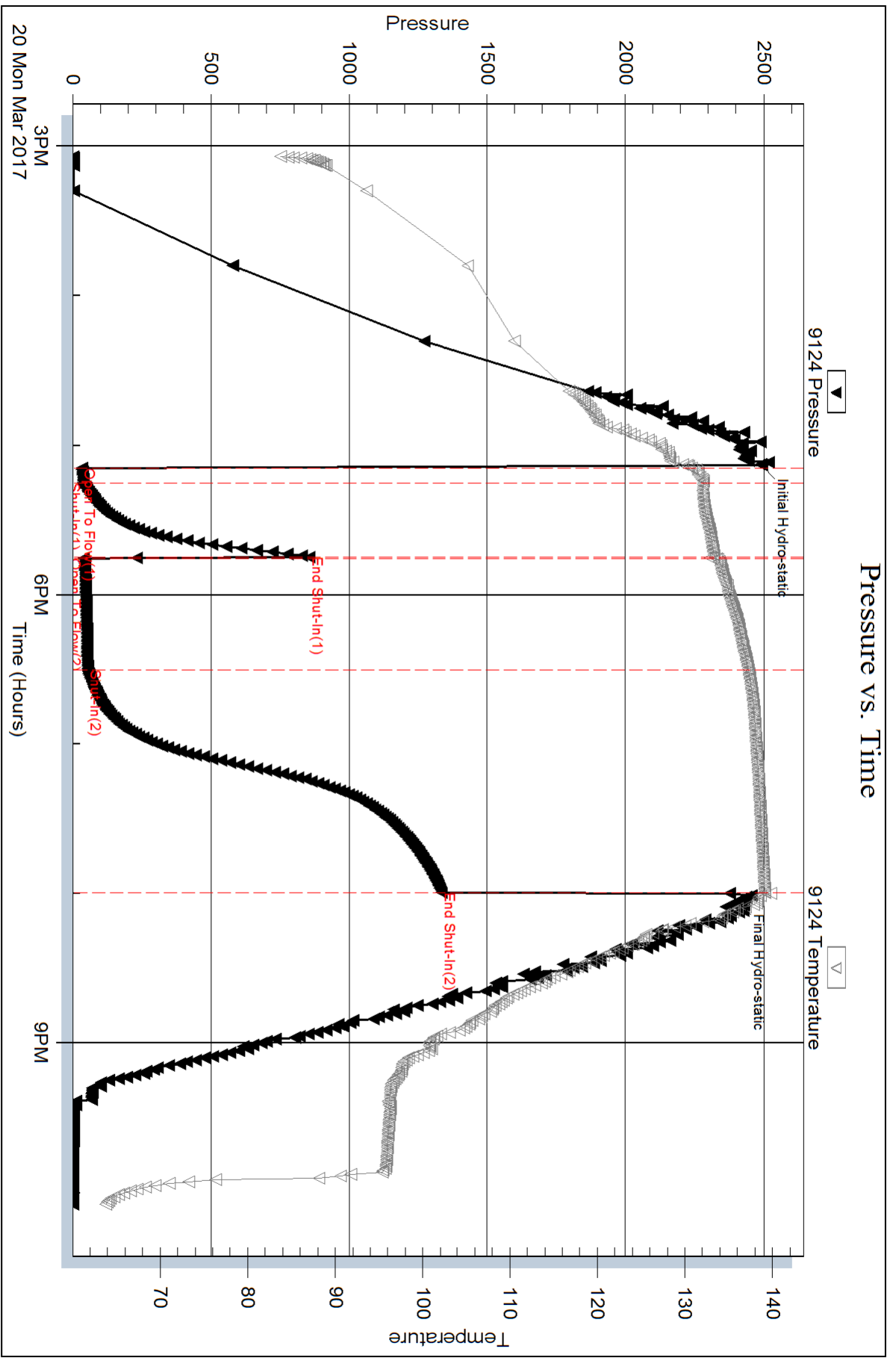
Recovery Comments:

Serial #: 9124

Outside K3 Oil & Gas Operating Company

Boyer #6-3

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63098

Printed: 2017.03.22 @ 10:16:24



DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Company**

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

ATTN: John Rigas

Boyer #6-3

3-35S-4W Sumner,KS

Start Date: 2017.03.21 @ 05:03:00

End Date: 2017.03.21 @ 11:47:30

Job Ticket #: 63099 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.22 @ 10:14:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas Operating Company

3-35S-4W Sumner,KS

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

Boyer #6-3

Job Ticket: 63099

DST#: 3

ATTN: John Rigas

Test Start: 2017.03.21 @ 05:03:00

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:59:00

Time Test Ended: 11:47:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 4957.00 ft (KB) To 4979.00 ft (KB) (TVD)

Reference Elevations: 1197.00 ft (KB)

Total Depth: 4979.00 ft (KB) (TVD)

1192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 9124 Outside

Press@RunDepth: 77.36 psig @ 4958.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.21

End Date:

2017.03.21

Last Calib.:

2017.03.21

Start Time: 05:03:05

End Time:

11:47:29

Time On Btm:

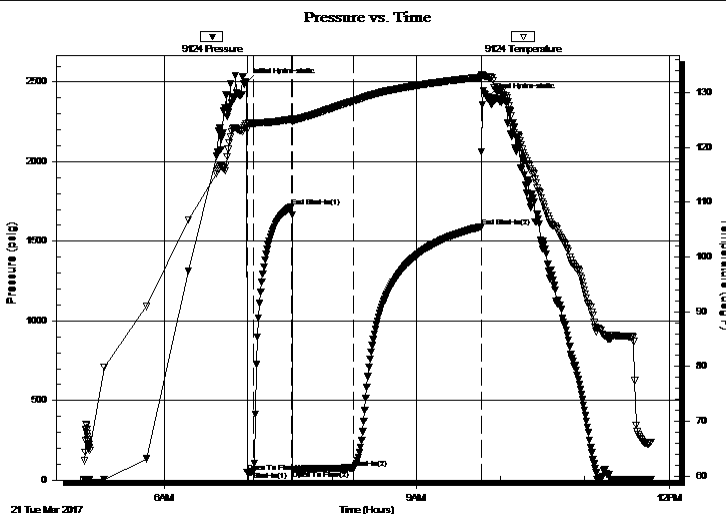
2017.03.21 @ 06:58:15

Time Off Btm:

2017.03.21 @ 09:50:30

TEST COMMENT: IF - Weak blow building to 1 1/2"
ISI - No blow back
FF - Weak blow building to 1 1/2"
FSI - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2495.14	124.26	Initial Hydro-static
1	51.00	123.31	Open To Flow (1)
6	54.57	124.35	Shut-In(1)
33	1719.38	125.15	End Shut-In(1)
34	64.12	124.68	Open To Flow (2)
77	77.36	128.49	Shut-In(2)
168	1590.94	132.83	End Shut-In(2)
173	2400.38	132.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	Drilling Mud 100%M	0.95

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas Operating Company

3-35S-4W Sumner,KS

24900 Pitkin Rd. Suite 305
The Woodlands, TX 77386

Boyer #6-3

Job Ticket: 63099

DST#: 3

ATTN: John Rigas

Test Start: 2017.03.21 @ 05:03:00

Tool Information

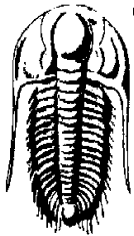
Drill Pipe:	Length: 4828.00 ft	Diameter: 3.80 inches	Volume: 67.72 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 68.31 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4957.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4930.00	
Shut In Tool	5.00			4935.00	
Hydraulic tool	5.00			4940.00	
Jars	5.00			4945.00	
Safety Joint	3.00			4948.00	
Packer	4.00			4952.00	28.00 Bottom Of Top Packer
Packer	5.00			4957.00	
Stubb	1.00			4958.00	
Recorder	0.00	9124	Outside	4958.00	
Recorder	0.00	6798	Inside	4958.00	
Perforations	16.00			4974.00	
Bullnose	5.00			4979.00	22.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas Operating Company

3-35S-4W Sumner,KS

24900 Pitkin Rd.Suite 305
The Woodlands, TX 77386

Boyer #6-3

Job Ticket: 63099

DST#: 3

ATTN: John Rigas

Test Start: 2017.03.21 @ 05:03:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
145.00	Drilling Mud 100%M	0.950

Total Length: 145.00 ft Total Volume: 0.950 bbl

Num Fluid Samples: 0

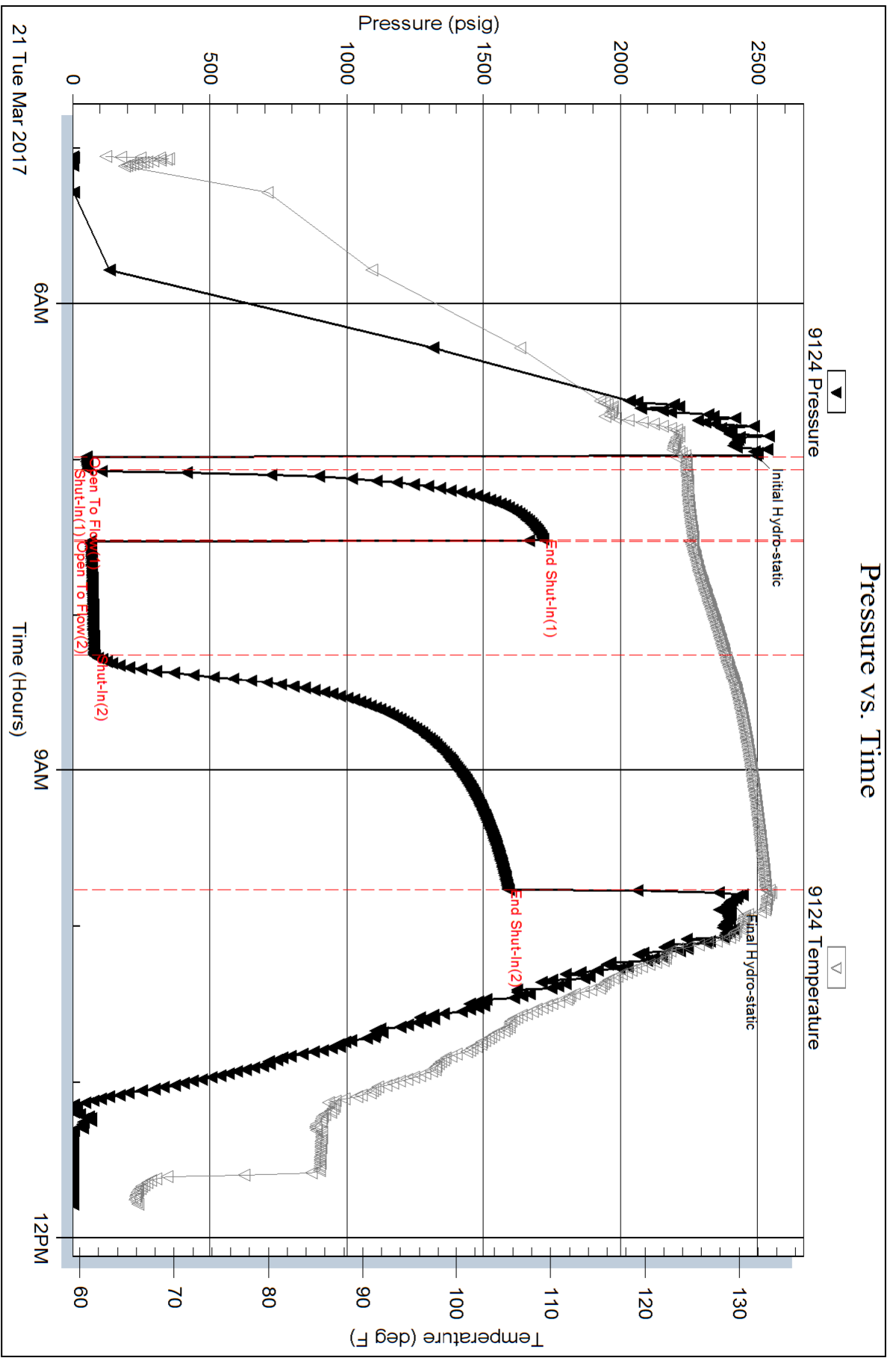
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



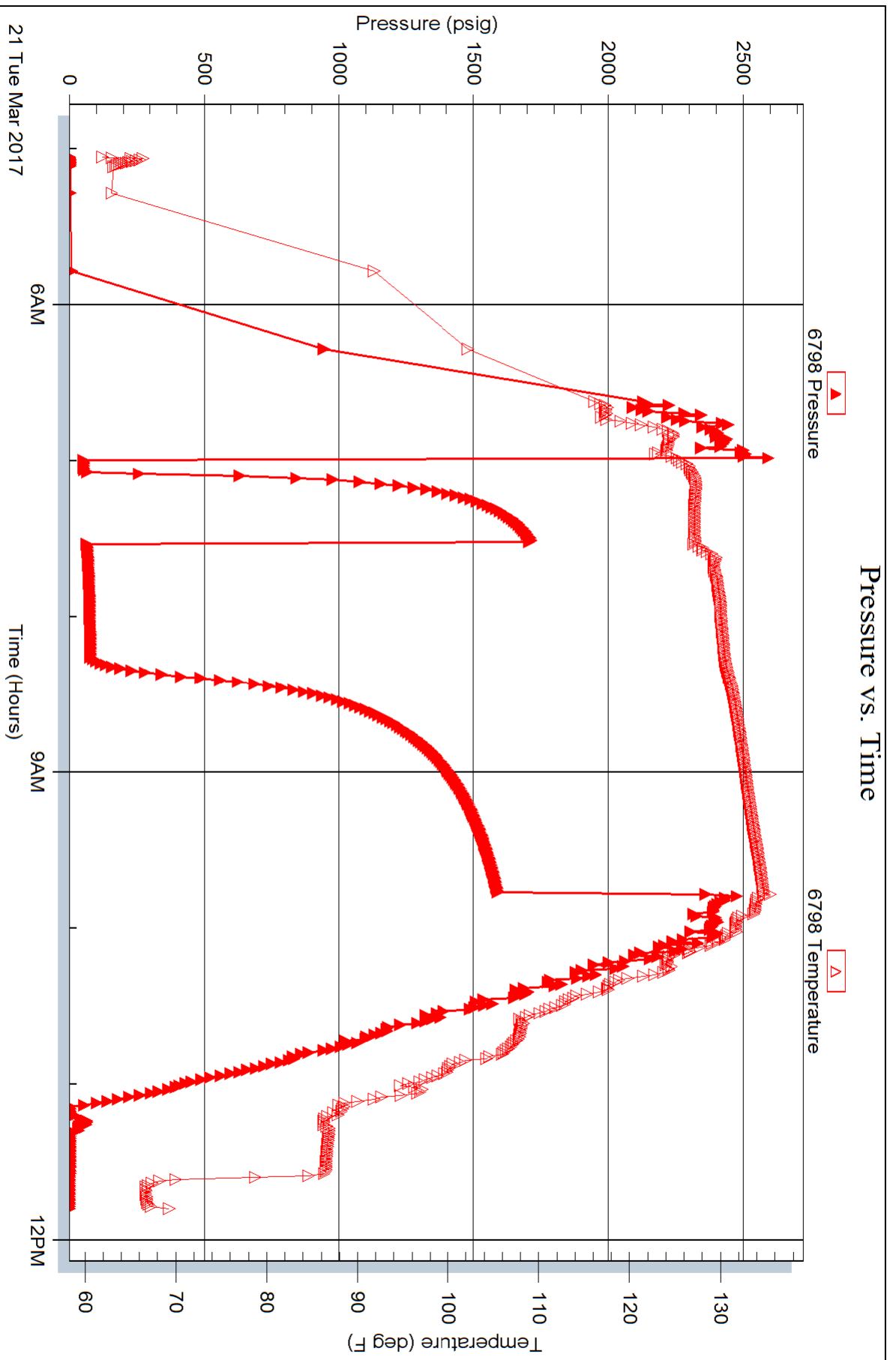
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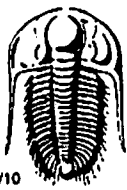
Inside

K3 Oil & Gas Operating Company

Boyer #6-3

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58121

Well Name & No. Boyer #6-3 Test No. 1 Date 3/18/17
 Company K3 Oil & Gas Operating Company Elevation 1197 KB 1192 GL
 Address 24900 Pitkin Rd Suite 305 The Woodlands, TX 77386
 Co. Rep / Geo. _____ Rig WW #8
 Location: Sec. 3 Twp. 35 S Rge. 4 W Co. Sumner State KS

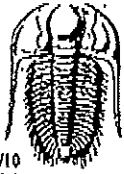
Interval Tested 4492-4508 Zone Tested MISS
 Anchor Length 16' Drill Pipe Run 4348 Mud Wt. 9.1
 Top Packer Depth 4487 Drill Collars Run 119 Vis 52
 Bottom Packer Depth 4492 Wt. Pipe Run _____ WL 9.6
 Total Depth 4508 Chlorides 9000 ppm System LCM 2#
 Blow Description IF- BOB instantly
ISI- No blow
FF- BOB instantly Gas to surface 2 min
F5I- No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>WM</u>			<u>15</u>	<u>85</u>
Rec	Feet of <u>4384' AIP</u>	%gas	%oil	%water	%mud
Rec	Feet of _____	%gas	%oil	%water	%mud
Rec	Feet of _____	%gas	%oil	%water	%mud
Rec	Feet of _____	%gas	%oil	%water	%mud

Rec Total 115' BHT 125° Gravity _____ API RW .13 @ 60 °F Chlorides 64000 ppm
 (A) Initial Hydrostatic 2242 Test 1150 T-On Location 0435
 (B) First Initial Flow 95 Jars 250 T-Started 0518
 (C) First Final Flow 107 Safety Joint 75 T-Open 0805
 (D) Initial Shut-In 1809 Circ Sub _____ T-Pulled 1055
 (E) Second Initial Flow 96 Hourly Standby _____ T-Out 1255
 (F) Second Final Flow 66 Mileage 418 RT 200rt 150 Comments Tools loaded
 (G) Final Shut-In 1790 Sampler _____ 3/19 @ 1500
 (H) Final Hydrostatic 2202 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1875
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1875

Approved By _____ Our Representative Brannan Lonsdale

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1516 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63098

Well Name & No. K3 Oil and Gas Oper. Co. Boyer #6-3 Test No. 2 Date 3-20-17
 Company K3 Oil and Gas Oper. Co. Elevation 1197 KB 1192 GL
 Address 24900 Pittkin Rd Suite 305 The Woodlands, TX 77386
 Co. Rep / Geo. John Rigas Rig W.W. Drilling #8
 Location: Sec. 3 Twp. 35 S Rge. 4 W Co. Summer State KS

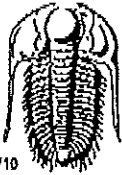
Interval Tested 4955-4966 Zone Tested Simpson
 Anchor Length 11 Drill Pipe Run 4258 4828 Mud Wt. 9.0
 Top Packer Depth 4955 Drill Collars Run 119 Vis 57
 Bottom Packer Depth 4950 Wt. Pipe Run 0 WL 9.8
 Total Depth 4966 Chlorides 2500 ppm System LCM
 Blow Description IF - weak blow building to 2 inches IFP
FF - weak blow building to 2 inch Final Flow Period

Rec	Feet of	%gas	%oil	%water	%mud
90	very slightly oil catm.	TR		100	
30	GIF	100			

Rec Total 90 BHT 139 Gravelly API RW @ F Chlorides ppm

(A) Initial Hydrostatic <u>2492</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1430</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jara <u>250</u>	T-Started <u>1504</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1709</u>
(D) Initial Shut-In <u>856</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2000</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2200</u>
(F) Second Final Flow <u>54</u>	<input checked="" type="checkbox"/> Mileage <u>150</u> <u>RT 146</u>	Comments
(G) Final Shut-In <u>1336</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2405</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>6</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Total <u>1625</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1625</u>	

Approved By [Signature] Our Representative Jimmy Dickel
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools test or damaged in the hole shall be paid for at cost by the party to whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

Test Ticket

NO. 63099

Well Name & No. Boyer #6-3 Test No. 3 Date 3-21-17
 Company K3 Oil & Gas Oper. Co. Elevation 1197 KB 1192 GL
 Address 24900 Atkin Rd. Suite 305 The Woodlands, Tx. 77386
 Co. Rep / Geo. John Riggs Rig WW Drilling #8
 Location: Sec. 3 Twp. 35 S Rge. 4W Co. Sumner State KS

Interval Tested 4957-4979 Zone Tested Simpson
 Anchor Length 22 Drill Pipe Run 4828 Mud Wt. 9.0
 Top Packer Depth 4952 Drill Collars Run 119 Vis 54
 Bottom Packer Depth 4957 Wt. Pipe Run 0 WL 9.8
 Total Depth 4979 Chlorides 8500 ppm System LCM
 Blow Description IF- weak blow building to 1 1/2 inches FFD
FF- weak blow building to 1 1/2 inches FFD

Rec	Feet of	%gas	%oil	%water	%mud
<u>145</u>	<u>Drilling Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 145 BHT 133 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2495</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0400</u>
(B) First Initial Flow <u>51</u>	<input checked="" type="checkbox"/> Jgrs <u>250</u>	T-Started <u>0503</u>
(C) First Final Flow <u>55</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0659</u>
(D) Initial Shut-In <u>1719</u>	<input type="checkbox"/> Ciro Sub _____	T-Pulled <u>0946</u>
(E) Second Initial Flow <u>69</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1140</u>
(F) Second Final Flow <u>77</u>	<input type="checkbox"/> Mileage _____	Comments _____
(G) Final Shut-In <u>1591</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2400</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 5
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 90

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1475

MP/DST Disc't _____

Approved By [Signature] Our Representative Jimmy Richards

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Completion Procedure

Boyer 6-3 well, Sumner County, Kansas

2526' FNL & 1656' FWL 35S-4W-Sec 3

April 11, 2017

Drillers TD: 5150' (per loggers)

Surface Csg: 8 5/8", 23# set 12 jts. @ 515' w/ 275 sx class "A" cement.

Prod. Csg: 120 jts, 5 1/2", 15.5#, MW-55 csg. LTD & RTD @ 5148'. 50/50 POZ
w/ 350 sx

Cement Pumped by Basic Services.

Based on subject well's Open hole log and the well's DST evaluation, the following zones will be tested based on production results. *This completion procedure is based on the well's open hole logs run on 3/22/2017. Perforation depths are based on Weatherford Compact Photo Density Compensated Neutron Micro Resistivity Log, dated 3/22/2017 as well as DST data information taken during the drilling operations*

Test #	Zone	Perfs	Ft.
1	□□ □□□□	4 □60 □80'	20'

1. Level up location and set anchors. Rig up workover rig.
2. Make bit trip to bottom as deemed necessary.
3. POOH with bit.
4. Run CBL & CCL
5. RU csg swab & swab down to 3400'.
6. RU loggers to perforate. Trip in hole with 4" csg guns. Perforate intervals 4,960-4980. POOH and LD Csg guns.
7. Pick up retrievable packer assembly to isolate zones. RIH w/same. **Isolate Simpson zone**
8. Rig up pressure pumping truck. Acidize Simpson zone. Acidize with 250 gal 15% MCA. Swab back. Acidize with 6000 gal of 15% HCL + additives as recommended. Swab back.
*NOTE: Record pressures and pump rates and note pressure breaks if any.
9. Swab test well, recording all swab runs. Recover acid volume and record oil cut.
10. Wait on decision from Houston.

Contact Numbers:

- 1) K3 Oil and Gas: 832-813-8558 (Office Main phone)

John Rigas: 832-813-8496 (Office), 281-610-5994 (Cell)
Alex Warmath: 832-813-5985 (Office), 281-387-6764 (Cell)
K3 Office fax: 832-234-0825

- 2) Log-Tech Wireline: (785) 625-3858
- 3) Brett Hildebrand: (785)-871-7311 (Cell) 785-877-5331 Office fax

Brett's Consulting Service

Completions – Workovers – General Systems Setup

Brett Hildebrand 1104 Nixon Dr. Norton, Ks. 67654
Cell. - 785- 871- 7311
Office: 785- 877- 5331

Directions: N. side of Caldwell, KS, Hwy. 49 & Ave. G - .4 mi. W. on Ave. G to Sunflower Rd.- 1 N. to 160th st.- 6 W. to Dixon St.,1 S.to 170th,.7 W.- S. into

3/23/17

Boyer #6-3 - Figured pipe tally - WW Drilling Rig #8 ran 120 jts. new MW 55,LS 5 1/2", 15.5# csg. - tagged bttm. @5150' - RTD = 5150', LTD = 5150' - landed guide shoe @5148' w/ insert @5112' - circ. f/ 1.5 hrs. w/ good circ. & pumped 80 bbl. Desco flush- RU Basic Energy - pumped 500 gal. mud flush & 20 bbl. KCL wtr. - plug rat hole w/ 30 sxs. & mouse hole 20 sxs. - started cmt., pumped 350 sxs. 50/50 poz., 2% gel, 10% salt, 5# gilsonite - start dis. & plug w/ 122 bbl. wtr.- landed plug @7:03 a.m. w/ 1550#, 850# lift & held - RD Basic, landed in slips & released rig.

RTD: 5150', LTD: 5150', 5' KB

Csg: 5 1/2", 15.5# MW- 55 set @5148' w/ 350 sxs. 50/50 poz. 10% salt, 5# gilsonite & 2% gel.

Guide Shoe: 5046', Shoe Jt. = 43.49' w/ insert @5112'

Turbolizers: 5112', 5025', 4942', 4855', 4770', 4682', 4595', 4508', 4422', 4336', 4249', 4167'

Baskets: 4167', 2005'

4/19/17

Boyer #6-3 - MIRU Alliance Well Serv. - RU Excel Wireline to run CBL & CCL, LTD @5098', TOC @3352', ratty cement f/ 4174-4490', called John Rigas & had permission to proceed - RU csg. swab & swabbed down. to 4350' FS - RU to perf. Simpson f/ 4460-80', 4" HEC @4spf w/ 39 gr. charges - RD loggers & TIH w/ PKR, set @4953' to iso. Simpson - made 1 run, 750' FIH, all wtr. - SDON.

1 Day Cost = \$12,555

4/20/17

Boyer #6-3 - Simpson 4960-80', PKR @4653' - ran swab, 200' FIH w/ show of oil - RU Pro Stim to spot 6.25 bbl. - let equal. & set PKR to treat w/ 500 gal. 15% MCA w/ DMO - tbg. loaded ½ bbl. early, staged to bttm. @500# - acid on bottom = .6 BPM, 460# - w/ 2 out = .7 BPM, 390#, incr. to 1 BPM, 430# - w/ 4 out = 1 BPM, 470# - w/ 6 out = .7 BPM, 480# - w/ 8 out = 1 BPM, 540# - w/ 10 out = 1 BPM, 560# - w/ 12 out = 1 BPM, 540# - ISIP = 540#, 5 min. = 300#, 15 min. = 180#, 30 min. = 50#, 35 min. = 0 - let set 25 min., ran swab FL @ sur. - swabbed dwn. to 200' FIH, making 1 run every 30 min., rec. 43.41 BTF, 1.5 bbl. over load, all wtr. - start test:
1st hr. @2pph rec. 2.08 BTF, 175' FIH w/ all water
2nd hr. @2pph rec. 1.67 BTF, 175' FIH w/ show of oil - cleared acid off ann., reset PKR & swabbed dwn. - SDON. 2 Day Cost = \$17,200

4/24/17

Boyer #6-3 - Simpson 4960-80', PKR 4953' - tbg. press. 75#, ran swab FL @1600' FS, 3353' FIH w/ all dirty wtr. - swabbed dry in 4 runs, rec. 19.43 BTF, all wtr. - start test:
1st hr. @2pph rec. 2.51 BTF, 150' FIH w/ all wtr.
2nd hr. @2pph rec. 1.67 BTF, 150' FIH w/ all wtr.
3rd hr. @2pph rec. 1.67 BTF, 150' FIH w/ all wtr.
4th hr. @2pph rec. 1.67 BTF, 150' FIH w/ all wtr. - took water sample on last run & met chemical man w/ sample - SDON. 3 day cost = \$19,918

4/25/17

Boyer #6-3 - TOH w/ PKR- RU Excel Wireline to set CIBP @4950' & spot 1 sx. cement on top - RU to shoot squeeze holes @4454' @ 2spf - RD Excel - TIH w/ PKR & set @4528' to test CIBP - RU Pro Stim, loaded tbg. & test to 1500# & held - pulled PKR to 4420' & RU to take inj. rate - press. to 1,000#, w/ slow bleed off to 800# - increased to 2,000# better bleed off - @2,200# started feeding @ ½ BPM - after 4 bbl., stopped, not breaking down, rate still ½ BPM, 2,200# - bled back 1.75 bbl. - SDON.
4 day cost = \$26,070

4/26/17

Boyer #6-3 - Checked location & was muddy, called to begin @10:00 a.m. - RU Basic Energy Servs. - w/ PKR @4420', loaded hole & circ. acid to bttm. - set PKR to treat squeeze holes @4454' w/ 250 gal. 28% NE - w/ 2 out = 1.25 BPM, 2300# - w/ 4 out = 2.25 BPM, 1400# - w/ 6 out = 2.25 BPM, 1400# - ISIP = 1000#, 1 min. = 0 - let set 1 hr., ran swab FL @400' FS - swabbed dwn. to 500' FIH, rec. 17.95 BTF - RU Basic & took inj. rate @2.5 BPM, 1400# - mixed & pumped 50sxs. common, 25 sxs. w/ fluid loss - cement on bttm. = ½ BPM, 500# - w/ 30 sxs. out = ½ BPM, 2600# - staged 5 min., released back, not quite holding - staged another 5 min. & holding - released PKR & reversed out - pulled PKR to 4,000', reset & press. to 2300# & held solid - left 1500# on squeeze overnight - RD Basic & SDON. 5 day cost = \$34,370

4/27/17

Boyer #6-3 - tbg. press. 1300#, bled off press. & TOH w/ PKR - had 20 jts. had cement on tbg. walls - beat & reamed out 9 jts. & called f/ chemical that would possibly soften cement & clean out remaining jts. - 11 jts. remaining - TIH w/ 4 7/8" PDC bit & sub - tagged cement @4331', right where it was left - RU pump & swivel - SDON. 6 day cost = \$37,729

4/28/17

Boyer #6-3 - Got circ. & started drilling @4331', cement hard - drilled out to 4460' & fell through - ran bit to 4486' & circ. clean - press. squeeze to 500# & held solid - ran bit to 4933' & tagged cement on CIBP - circ. f/ 1 hr. - pulled bit to 4630' & swabbed dwn. to 3600' FS & SDOWE. 7 day cost = \$43,955

5/02/17

Boyer #6-3 - TOH w/ bit - RU Excel Wireline to perf. Mississippi @4491-4516', 4" HEC @4spf w/ 39 gr. charges - RD loggers - gas to surface, TIH w/ PKR & set @4424' - pumped 20 bbl. wtr. dwn. ann. - ran swab FL @3300' FS, swab dwn. to 350' FIH, rec. 5 BTF, all wtr. & sweet gas - tbg. built to 175# while rigging up Basic Servs. to treat w/ 1,000 gal. 15% NE acid w/ clastay - started acid & loaded 2 bbl. early - acid on bttm. @1 BPM, 1340# - w/ 5 out = 2 BPM, 560# - w/ 10 out = 3.5 BPM, 490# - w/ 18 out = 5.5 BPM, 600# - w/ 24 out = 5.5 BPM, 500# - ISIP = vac. - let set 30 min., ran swab FL @400' FS - swab dwn. to 225' FIH, rec. 38.82 of 54 bbl. load, all wtr. & sour gas - well blows 2 min. after each run - SDON. 8 day cost = \$60,355

5/05/17

Boyer #6-3 - Miss. 4491-4516', PKR @4424' - tbg. press. 1400#, blew dwn. in 5 min. - ran swab FL @2100' FS, 2391' FIH w/ 75' oil on top = 3% oil - swabbed dry, rec. 9.60 BTF w/ trace of oil & very little gas - rec. 50 of 54 bbl. load f/ acid job - start test:
1st hr. @2pph rec. 1.67 BTF, 250' FIH w/ tr. of oil
2nd hr. @2pph rec. .83 BTF, 250' FIH on last run, 1st run dry w/ 1% oil
3rd hr. @1pph rec. .83 BTF, 250' FIH w/ 1% oil - gas is light, but constant, not increasing - RDMO. 9 day cost = \$64,600

5/31/17

Boyer #6-3 - MIRU Red Rock Well Serv. - bled well dwn. to pit - start:
1640# on tbg. w/ 3/4" choke
12/64, 3 min. = 1400#
16/64, 8.5 min. = 1,000#
32/64, 20 min. = 300#
40/64, 28 min. = 50#, still good blow, changed gauges
64/64, 55 min. = still good blow, took off choke
1.75", 62 min. = good blow & fluid to sur., drip gas w/ trace of oil - shut in & released PKR - TOH w/ PKR & 135 jts. - put on 5 1/2" full opening valve f/ Basic Servs. - right when valve was shut, fluid to sur. again - RDMO.

6/15/17

Boyer #6-3 - RU Basic Energy Servs., 4 hrs. - started pumping 5,000 gal. 15% NE FE acid, 3,000 gal. sweep, 5,000 gal. PAD, followed by 5,000 gal. 1/2# 30/50 gel, 2 stages of 5,000 gal. each of 3/4# 30/50 gel., total job of 1965 bbl. - max. press. 1,730#, avg. press. 1,500#, ISIP = 557#, 5 min. = 241#, 10 min. = 199# & 15 min. = 188# - shut in & RD Basic - SDON.

6/16/17

Boyer #6-3 - Checked location & ok - MIRU Alliance Well Serv. - csg. press. = 30# & RU to flow to pit - started @1.5 BPM, 12 min. = 1 BPM, 25 min. = 1/4 BPM, 1 hr. 1/8 BPM, 2 hrs. = less than .1 BPM - Gusher Well Serv. moved in tbg. & RU transfer line f/ pit to frac. tanks - scraped flow ditch to pit - nipped dwn. frac. valves - RU prod. head & TIH w/ 8' sub, SN & tbg. - landed SN @4450', perms. @4491-4516' - total bbls. rec. f/ flow back = 60 bbl. - RU lubricator & swab equip. & shut in - SDOWE.

Est. Cost = \$5,000

6/19/17

Boyer #6-3 - Tbg. on vac. - RU swab, FL @100' FS, started swabbing steady - pulling f/ bttm., 30 min. per run, made 20 runs, FL @500' FS, rec. 408.50 BTF w/ gas on tbg. & ann. on vac. - gas started coming on last 5 runs - no sand in samples - SDON.

2 day fluid rec. = 468.50

2 Day Est. Cost = \$8,400

6/20/17

Boyer #6-3 - Tbg. = 325#, annulus = 345# - tbg. bled off in 1 min., 30 sec. - RU swab, ran swab FL @400' FS - made 5 runs, rec. 108 BTF & well kicked off - laid line to frac. tank - opened tbg. to frac. tanks & started flow test:

1st hr. rec. 81.50 BTF, trace oil, ann. = 410#

2nd hr. rec. 67.38 BTF, trace oil, ann. = 455#

3rd hr. rec. 101.78 BTF, trace oil, ann. = 500#

4th hr. rec. 100.66 BTF, 1% oil, ann. = 540#

5th hr. rec. 96.20 BTF, 2.5% oil, ann. = 590#

6th hr. rec. 94.98 BTF, 2.5% oil, ann. = 675#

7th hr. rec. 67.39 BTF, 7% oil, ann. = 725# - no sand throughout day - 3 day total fluid recovery = 1,186 BTF - shut in & SDON.

3 Day Est. Cost = \$12,200

