

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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	White Exploration, Inc.
Well Name	JACOBS-WOOD 2
Doc ID	1348437

All Electric Logs Run

Compensated Density Neutron Log
Dual Induction Log
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	JACOBS-WOOD 2
Doc ID	1348437

Tops

Name	Top	Datum
Heebner	4171	-1327
Lansing	4271	-1427
Stark Shale	4665	-1821
Marmaton	4833	-1989
Morrow	5216	-2372
Mississippi-St. Gen	5410	-2566
Viola	6476	-3632
Arbuckle	6710	-3866



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

White Exploration, Inc.

1/30/31

1635 N. Waterfront PKWY Suite 100 Wichita, KS
67206

Jacobs-Wood 2

Job Ticket: 59457

DST#: 1

ATTN: Andy White

Test Start: 2017.03.02 @ 03:20:02

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:38:45

Time Test Ended: 12:46:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 5170.00 ft (KB) To 5270.00 ft (KB) (TVD)

Reference Elevations: 2842.00 ft (KB)

Total Depth: 5270.00 ft (KB) (TVD)

2832.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8289

Inside

Press@RunDepth: 44.12 psig @ 5202.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.02

End Date:

2017.03.02

Last Calib.:

1899.12.30

Start Time:

03:20:02

End Time:

12:46:00

Time On Btm:

2017.03.02 @ 06:38:15

Time Off Btm:

2017.03.02 @ 10:30:45

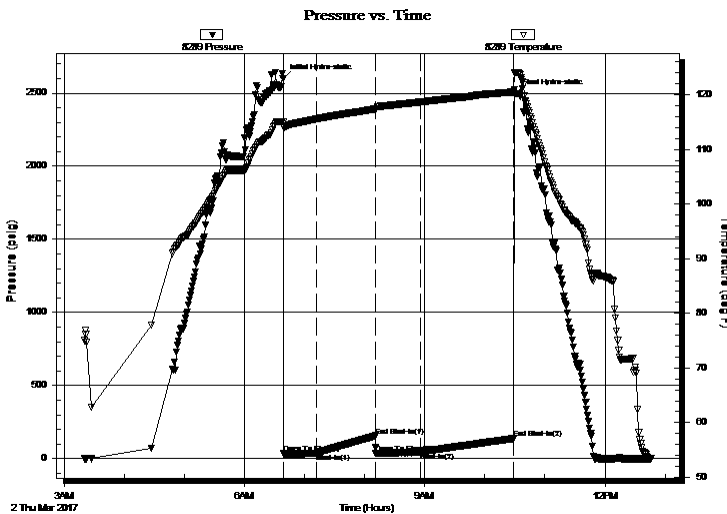
TEST COMMENT: IF: 2.5 inches in 30 min., weak building blow

IS: No blow back

FF: 4 inches in 45 min., fair building blow

FS: No blow back

PRESSURE SUMMARY



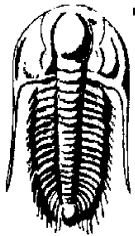
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2598.62	115.01	Initial Hydro-static
1	33.71	114.20	Open To Flow (1)
34	37.11	115.61	Shut-In(1)
93	154.87	117.42	End Shut-In(1)
93	35.33	117.38	Open To Flow (2)
138	44.12	118.69	Shut-In(2)
231	136.60	120.53	End Shut-In(2)
233	2498.43	124.09	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
15.00	oil spotted mud 100%M	0.07

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



**TRILOBITE
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DRILL STEM TEST REPORT

White Exploration, Inc.

1/30/31

1635 N. Waterfront PKWY Suite 100 Wichita, KS
67206

Jacobs-Wood 2

ATTN: Andy White

Job Ticket: 59457

DST#: 1

Test Start: 2017.03.02 @ 03:20:02

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:38:45

Time Test Ended: 12:46:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 5170.00 ft (KB) To 5270.00 ft (KB) (TVD)

Total Depth: 5270.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2842.00 ft (KB)

2832.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 5202.00 ft (KB)

Start Date: 2017.03.02

End Date: 2017.03.02

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Start Time: 03:20:02

End Time: 12:46:04

Time On Btm:

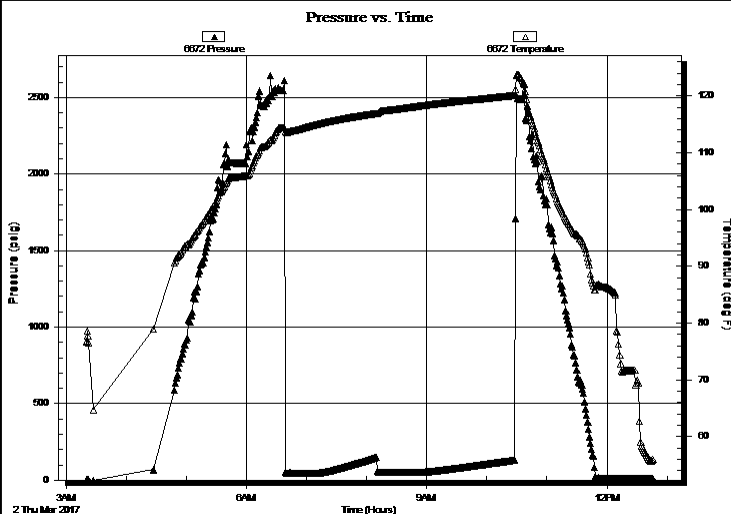
Time Off Btm:

TEST COMMENT: IF: 2.5 inches in 30 min., weak building blow

IS: No blow back

FF: 4 inches in 45 min., fair building blow

FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	oil spotted mud 100%M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration, Inc.

1/30/31

1635 N. Waterfront PKWY Suite 100 Wichita, KS
67206

Jacobs-Wood 2

Job Ticket: 59457

DST#: 1

ATTN: Andy White

Test Start: 2017.03.02 @ 03:20:02

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:

4200 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	oil spotted mud 100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

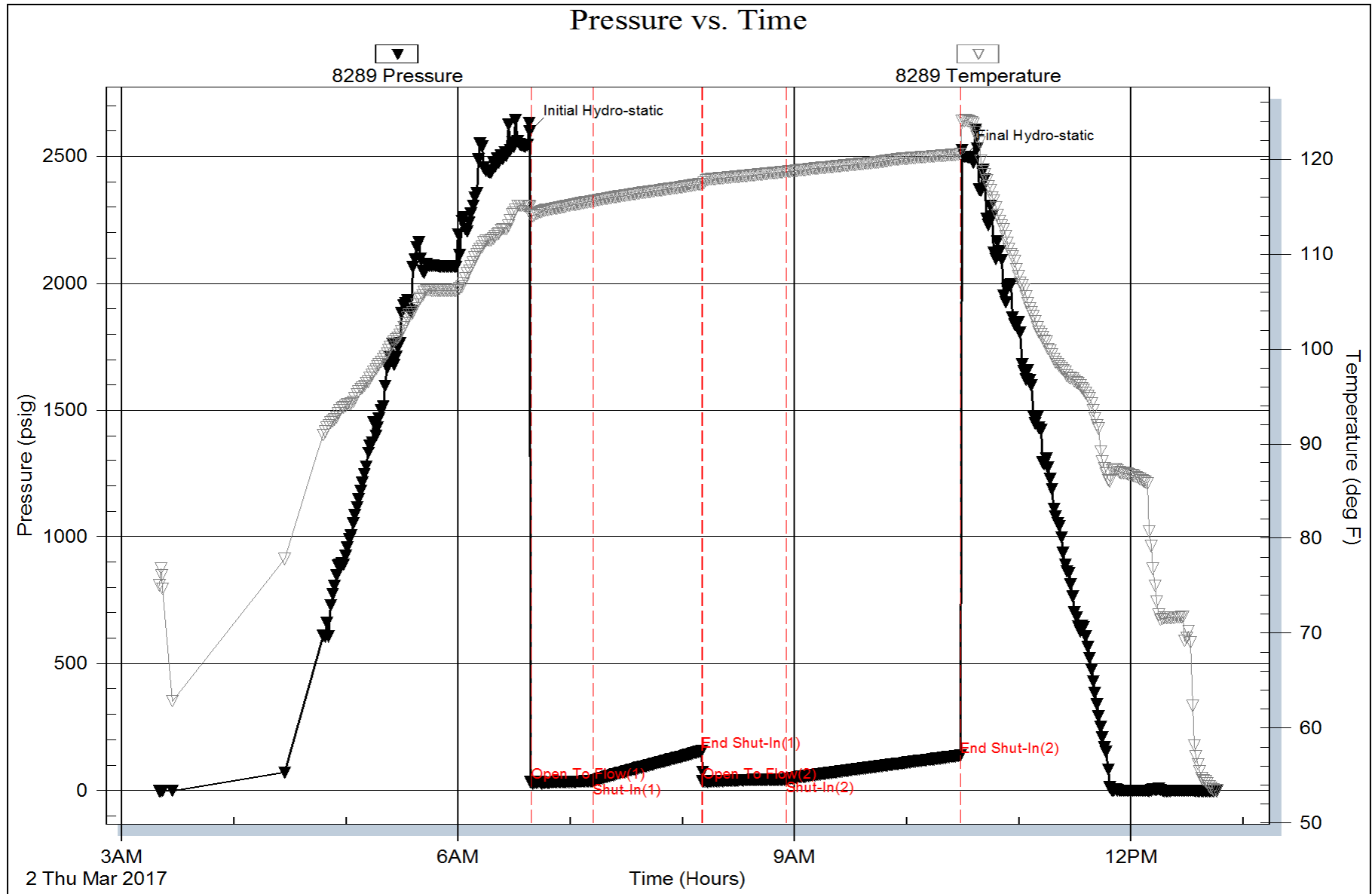
Num Gas Bombs: 0

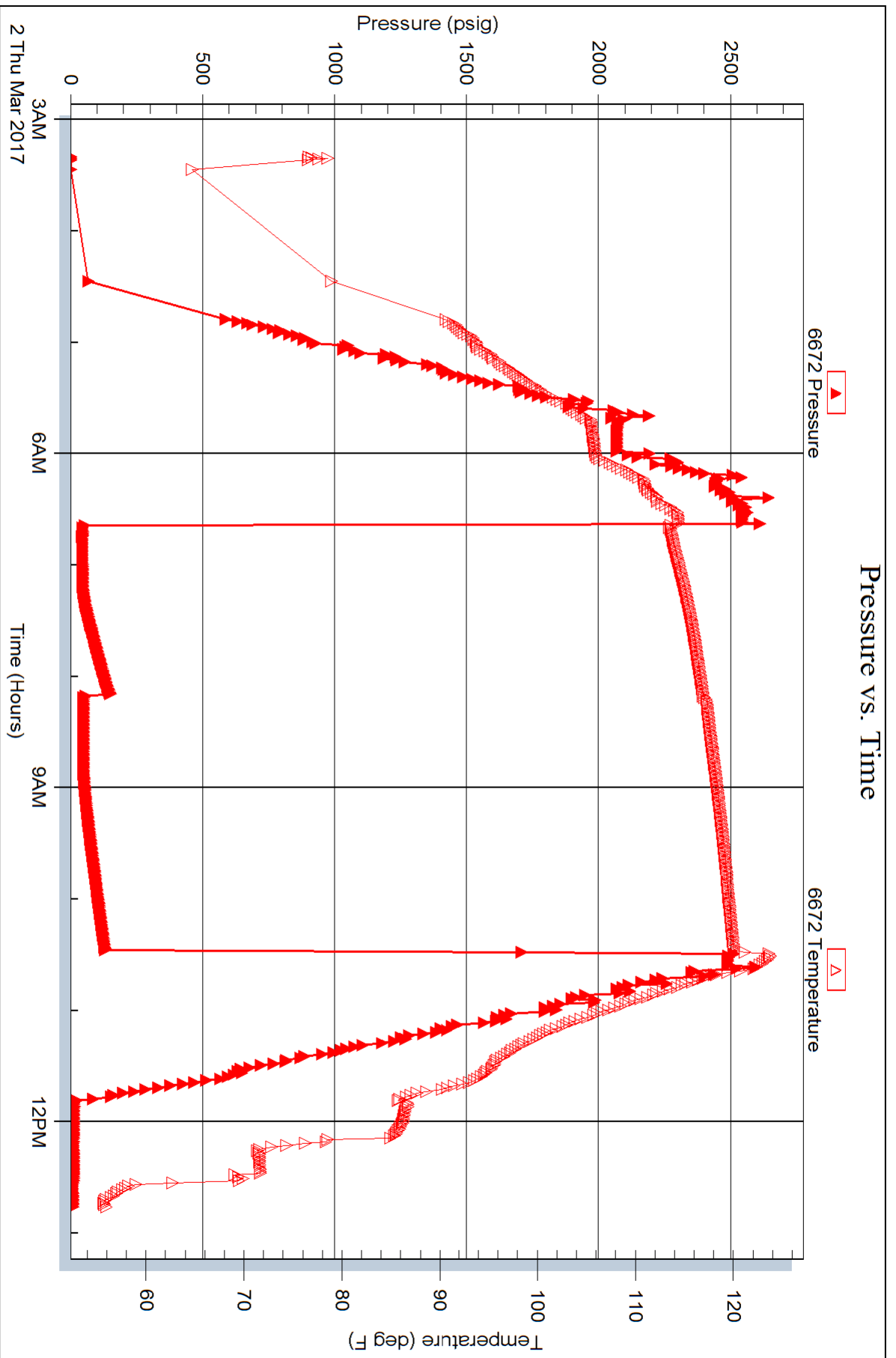
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=1.362@73F







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

White Exploration, Inc.

1/30/31

1635 N. Waterfront PKWY Suite 100 Wichita, KS 67206

Jacobs-Wood 2

Job Ticket: 59458

DST#: 2

ATTN: Andy White

Test Start: 2017.03.03 @ 06:57:00

GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: 2842.00 ft (KB)

Time Tool Opened: 09:12:50

Time Test Ended: 14:42:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

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

Reference Elevations: 2842.00 ft (KB)

Total Depth: 5530.00 ft (KB) (TVD)

2832.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8289

Inside

Press@RunDepth: 34.59 psig @ 5527.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.03

End Date:

2017.03.03

Last Calib.: 1899.12.30

Start Time: 06:57:02

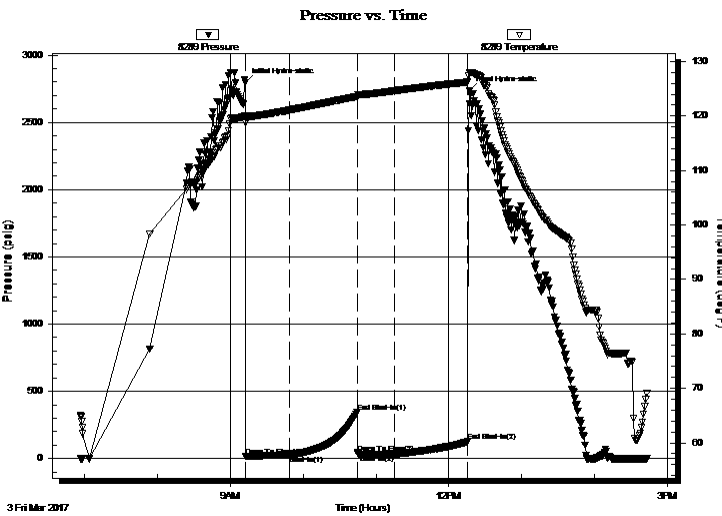
End Time:

14:42:45

Time On Btm: 2017.03.03 @ 09:12:40

Time Off Btm: 2017.03.03 @ 12:17:00

TEST COMMENT: IF: Weak surface blow , died 20 min.
 IS: No blow back
 FF: Weak surface blow , died 5 min., flushed tool no change
 FS: No blow back



PRESSURE SUMMARY

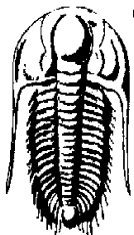
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2796.39	120.01	Initial Hydro-static
1	18.97	118.66	Open To Flow (1)
36	25.52	121.05	Shut-In(1)
92	345.17	123.55	End Shut-In(1)
92	42.40	123.36	Open To Flow (2)
123	34.59	124.61	Shut-In(2)
183	125.74	126.22	End Shut-In(2)
185	2733.67	127.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil Spotted Mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

White Exploration, Inc.

1/30/31

1635 N. Waterfront PKWY Suite 100 Wichita, KS
67206

Jacobs-Wood 2

Job Ticket: 59458

DST#: 2

ATTN: Andy White

Test Start: 2017.03.03 @ 06:57:00

GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: 2842.00 ft (KB)

Time Tool Opened: 09:12:50

Time Test Ended: 14:42:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

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

Reference Elevations: 2842.00 ft (KB)

Total Depth: 5530.00 ft (KB) (TVD)

2832.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 5527.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.03

End Date:

2017.03.03

Last Calib.:

1899.12.30

Start Time:

06:57:02

End Time:

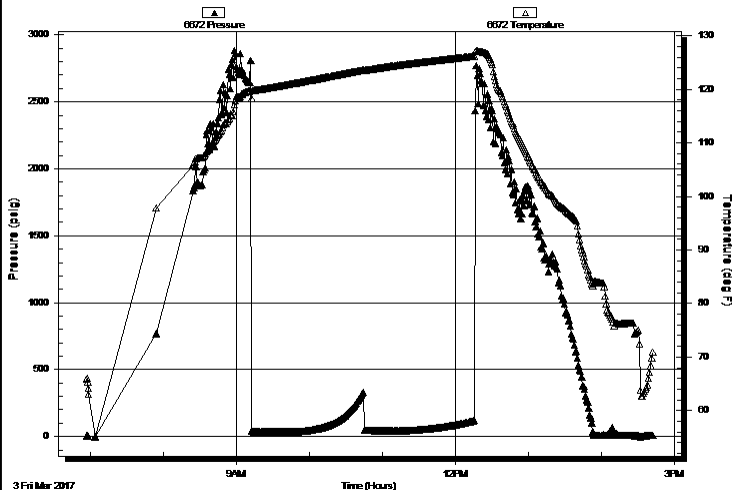
14:42:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak surface blow , died 20 min.
IS: No blow back
FF: Weak surface blow , died 5 min., flushed tool no change
FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil Spotted Mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration, Inc.

1/30/31

1635 N. Waterfront PKWY Suite 100 Wichita, KS
67206

Jacobs-Wood 2

Job Ticket: 59458

DST#: 2

ATTN: Andy White

Test Start: 2017.03.03 @ 06:57:00

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:

4100 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2050.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Oil Spotted Mud	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

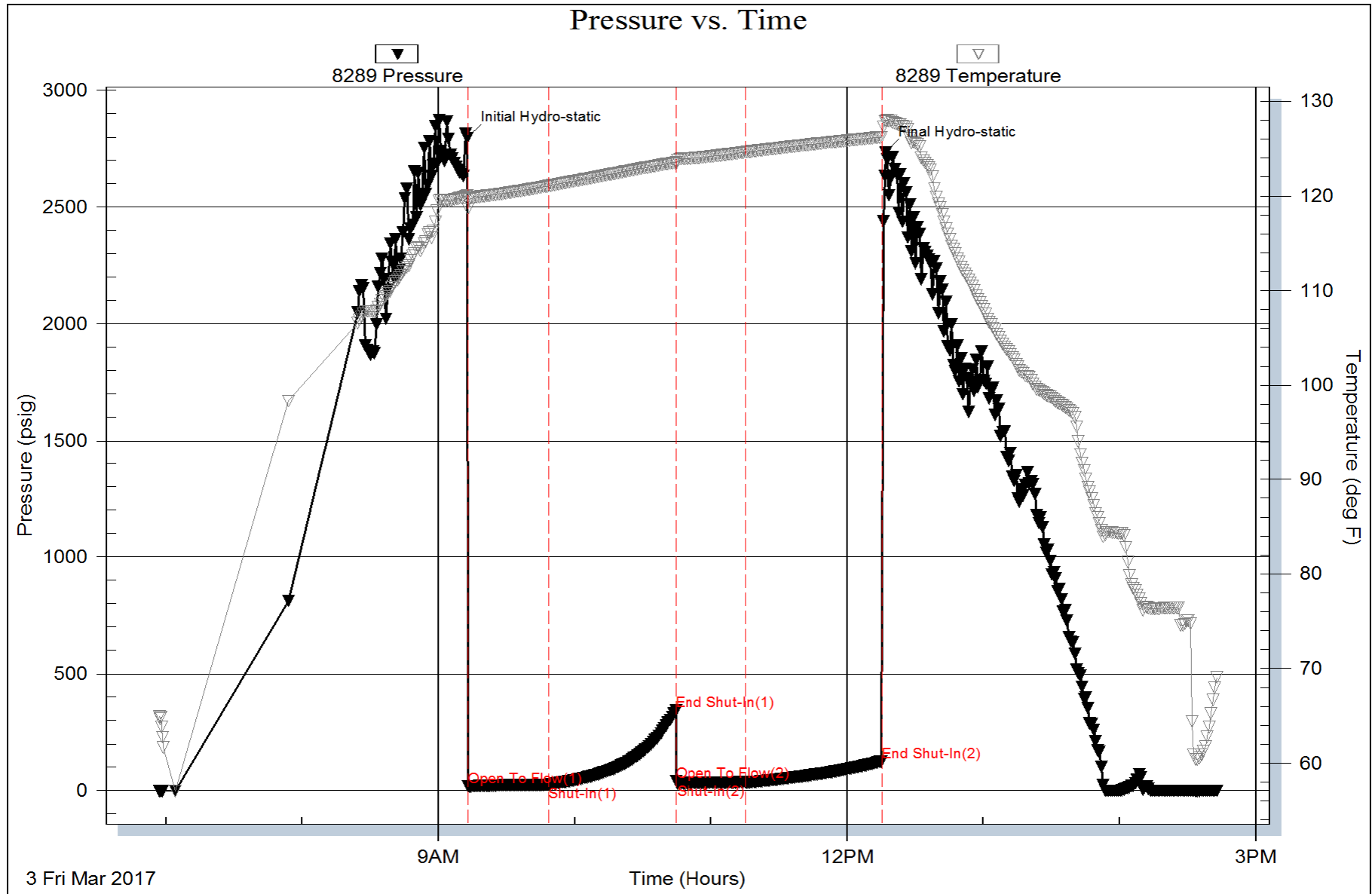
Num Gas Bombs: 0

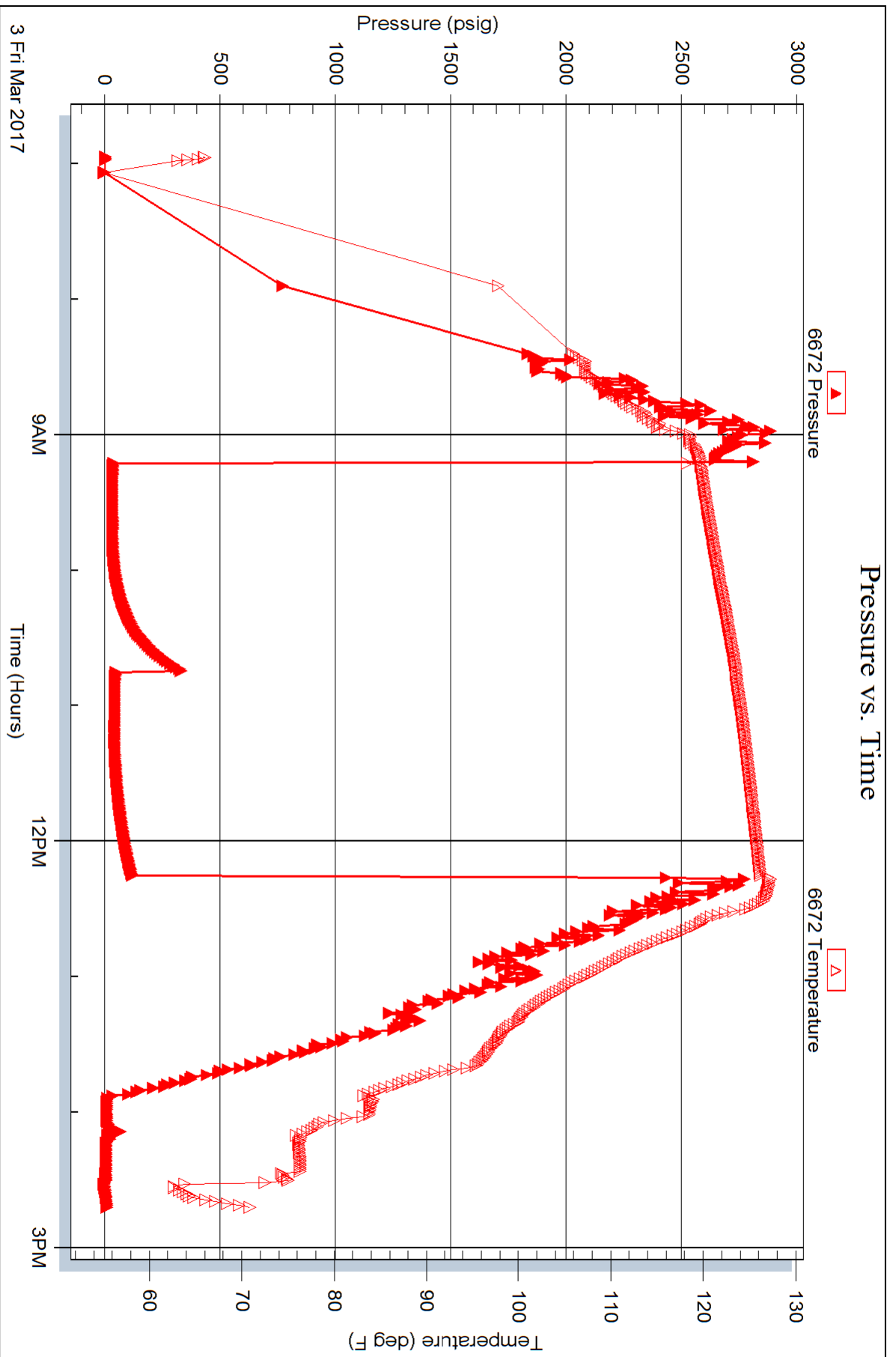
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=1.360@74F







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

Well Name: Jacobs-Wood #2
Location: 1-30S-31W
License Number: API: 15-081-22154
Spud Date: 02/22/17
Surface Coordinates: 1530' FNL, 2245' FWL

Region: Haskell Co., KS
Drilling Completed: 03/07/17

Bottom Hole
Coordinates:
Ground Elevation (ft): 2833 K.B. Elevation (ft): 2844
Logged Interval (ft): 4100 To: 6785 Total Depth (ft): 6785
Formation: Arbuckle
Type of Drilling Fluid: Chemical

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

OPERATOR

Company: White Exploration, Inc.
Address: 1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS, 67206

GEOLOGIST

Name: Andrew White
Company: White Exploration, Inc.
Address:

Remarks

Based on analysis of samples, Logs, and DST results, the decision to plug and abandon the Jacobs-Wood #2 was made.

General Info

Drilling Contractor: Murfin Rig 21

Logs: ELI Wireline Services
Compensated Density/Neutron, Dual, Micro, Sonic

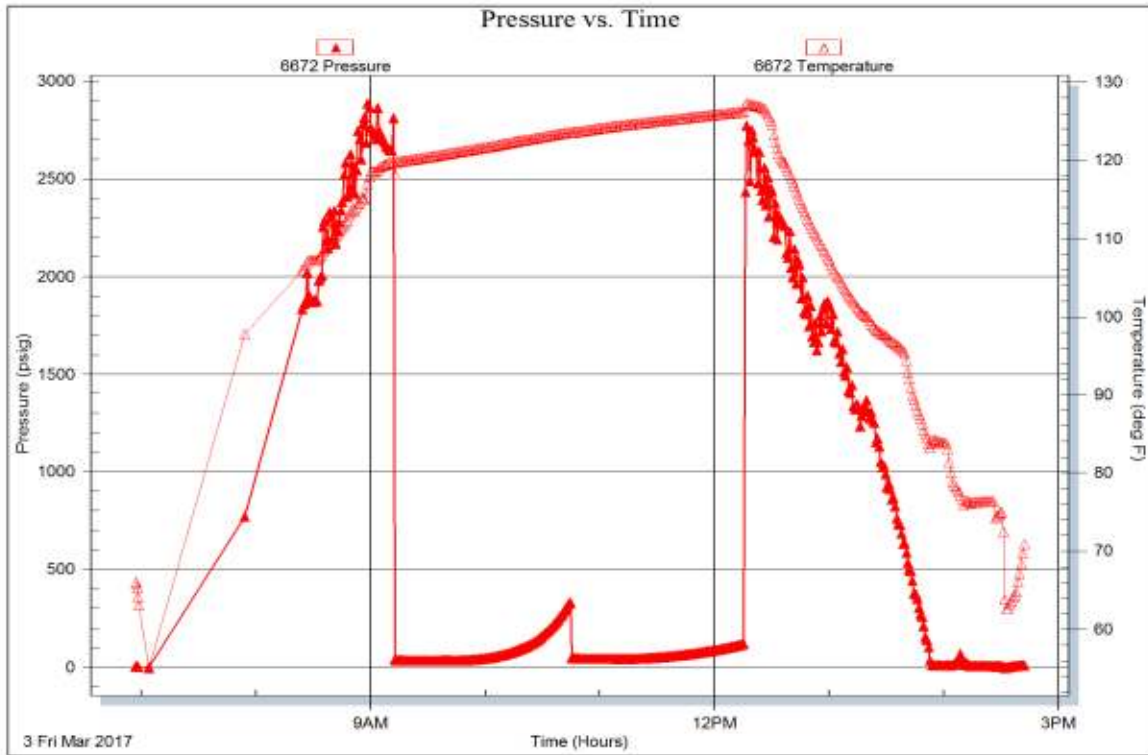
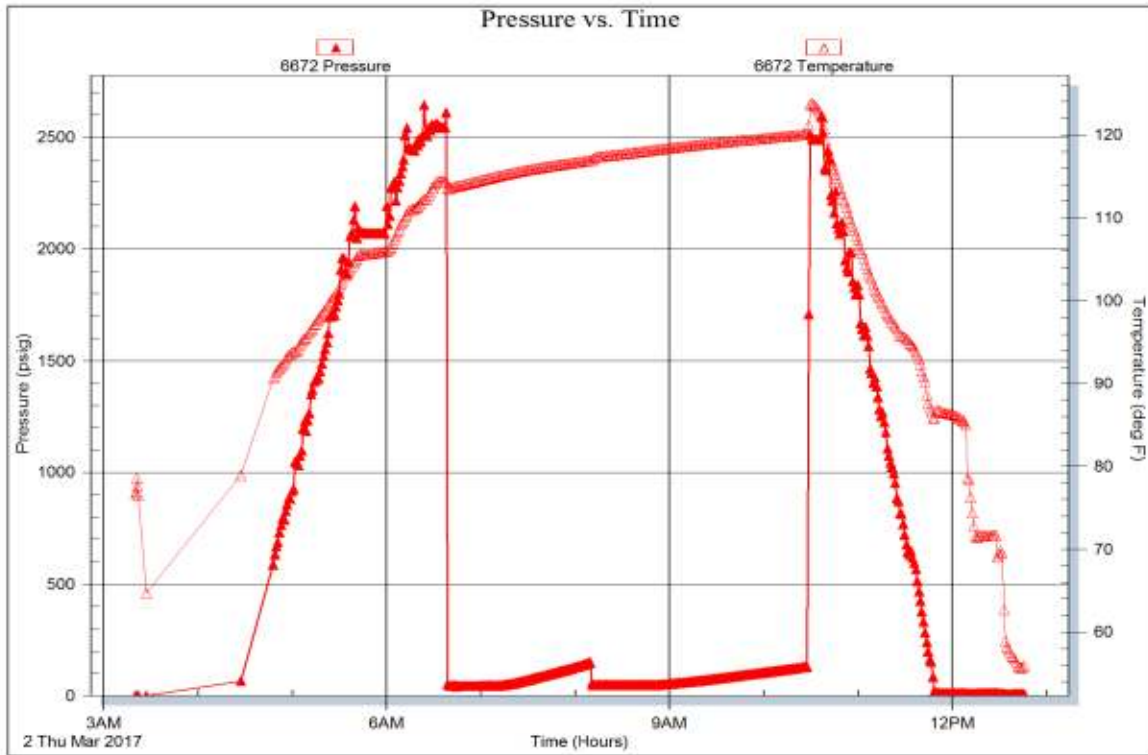
Drilling Mud: Mudco/Service Mud, Inc.

Surveys: 683'-1, 969'-.75, 1200'-.8, 1782'-.5, 2081'-.8, 3066'-.8, 3572'-.3, 4074'-1, 4450'-.5, 5016'-.4, 5270'-.2, 5530'-.9, 6114',.9, 6785'-.9

Daily Status

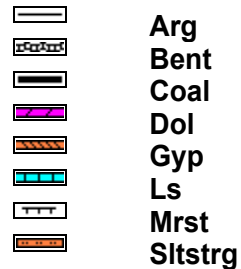
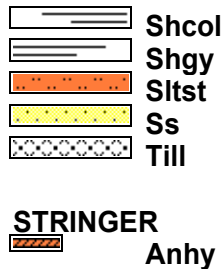
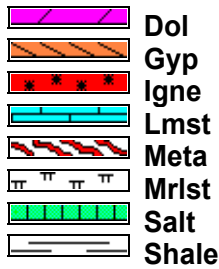
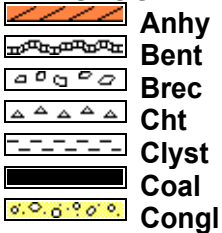
02/22/17: Spud well @ 3:15 p.m.
 02/23/17: Drilling surface hole @ 875'
 02/24/17: Drilling Surface hole @ 1659'. Drill to 1782', run 44 joints new 8-5/8" 24# surface casing. cemented with 400 sacks H-Con Cment with 6% gel and 3% CC and 1/4# sack Pheno-seal. followed by 225 sacks of Common Cement with 2% CC and 1/4# sack of Pheno-seal.
 02/25/17: Waiting on cement
 02/26/17: Drilling ahead @ 2585'
 02/27/17: Drilling ahead @ 3405'
 02/28/17: Drilling ahead @ 4007'
 03/01/17: Drilling ahead @ 4846'
 03/02/17: Running DST #1 @ 5270'
 03/03/17: Running DST #2 @ 5530'
 03/04/17: Drilling ahead @ 5814'
 03/05/17: Drilling ahead @ 6201'
 03/06/17: Circulating @ 6700'
 03/07/17: Logging, plug well with 210 sacks of 60/40 Poz Mix with 4% gel, and 1/4# Floseal/sack.

	White Ex			First Nat.		Abercrombie	
	Jacobs-Wood #2			Wood-Jacobs #1		Marilyn Wood #1	
	1-30S-31W			1-30S-31W		36-29S-31W	
	1530' FNL, 2245' FWL						
	KB: 2844			KB: 2837		KB: 2840	
	Sample	Log	Datum	Relationship		Relationship	
B. Stone Corral	1780	1780	1064	+3		+18	
Heebner	4171	4171	-1327	+3		+3	
Lansing	4271	4271	-1427	+4		+9	
Stark	4670	4665	-1821	+6		+12	
Marmaton	4834	4833	-1989	+2		+3	
Morrow	5214	5216	-2372	-3		+4	
St. Gen	5415	5410	-2566	+7		+25	
Viola	6466	6476	-3632	NDE		NDE	
Arbuckle	6705	6710	-3866	NDE		NDE	

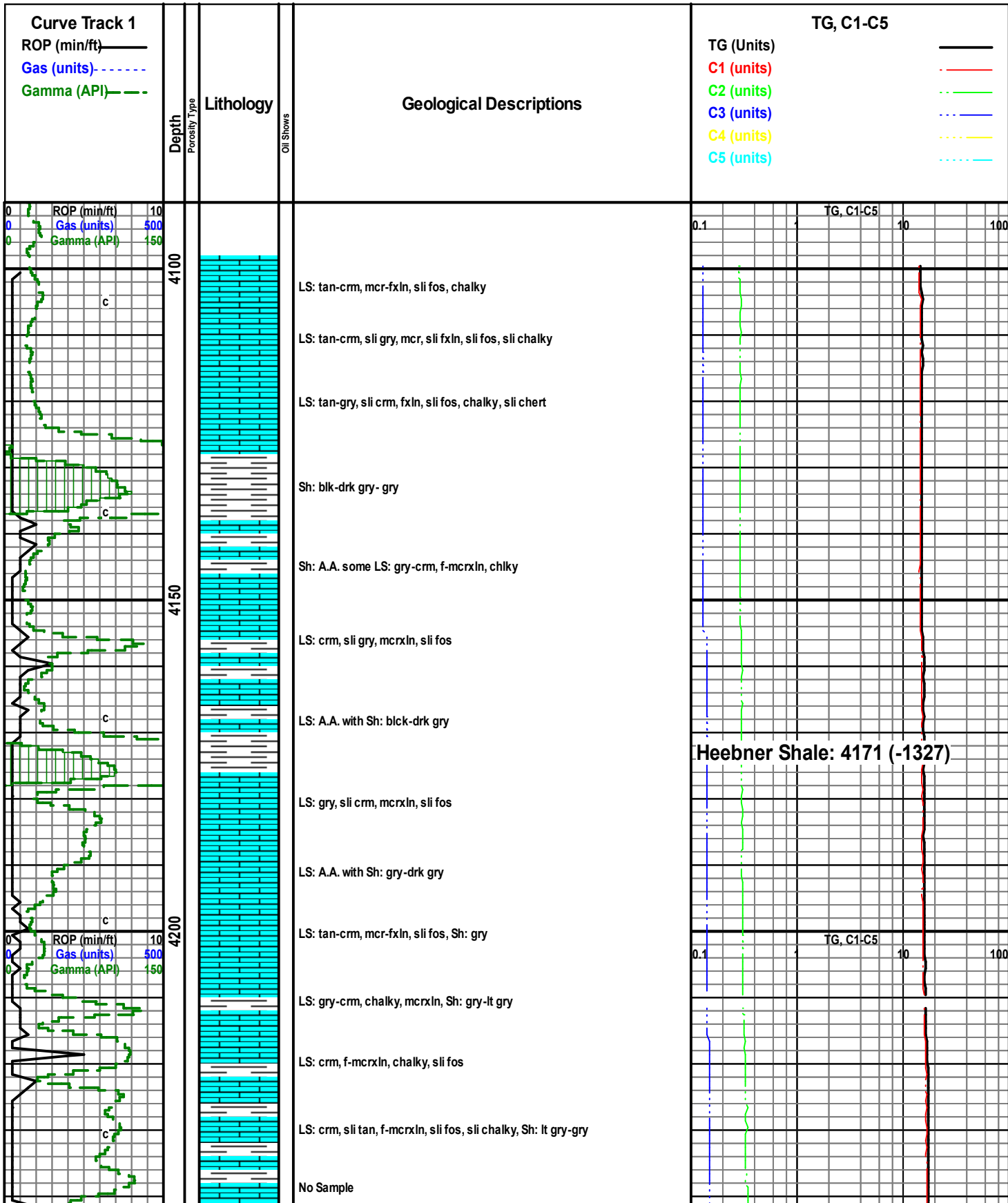
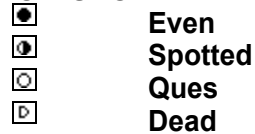


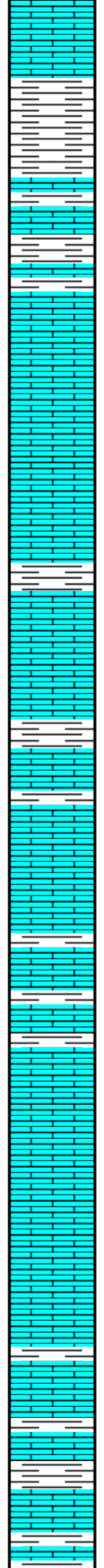
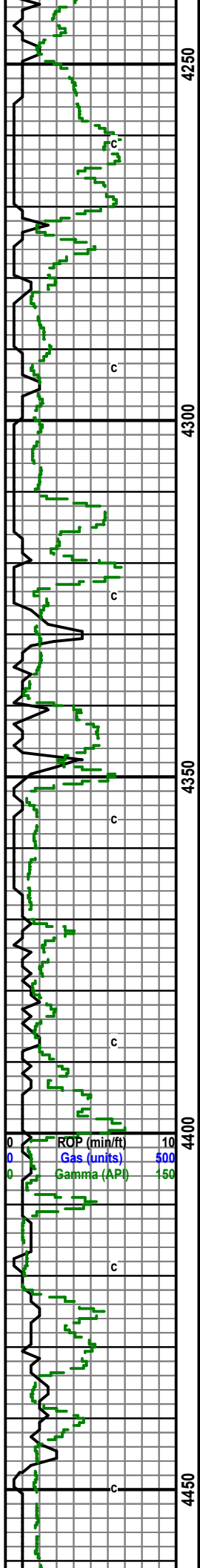
ROCK TYPES

LITHOLOGY



OIL SHOW





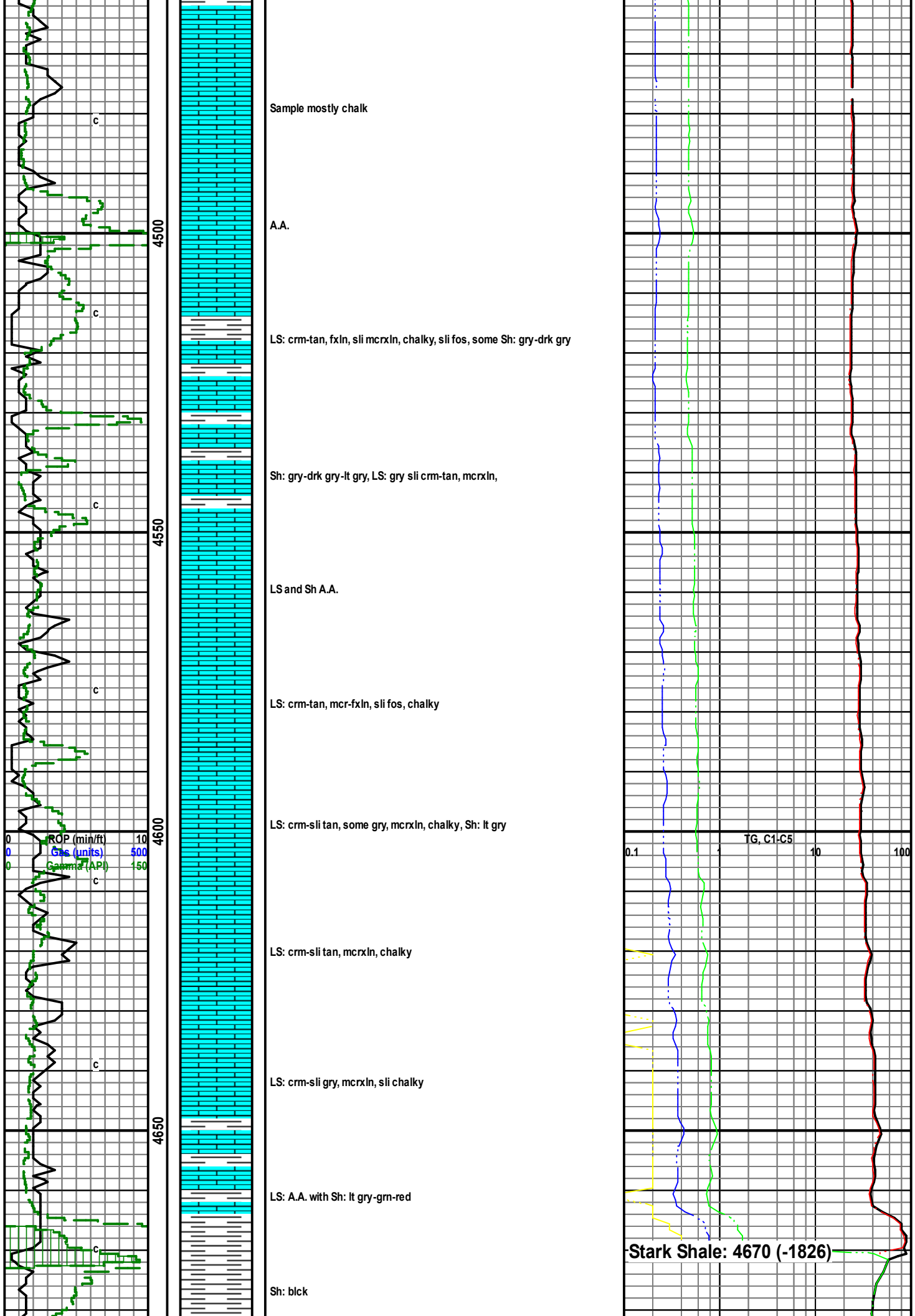
Sh: gry-grm, sli brn, with some LS: A.A.
 Sh: A.A.
 Sh: gry-drk gry
 Sh: A.A. with LS: gry, sli crm, mcr-fxln
 No Sample
 LS: crm, few gry, mcr-fxln, chalky
 LS: A.A. sli cherty
 LS: crm-tan, mcr-fxln, sli chalky, cherty some Sh: gry
 LS: crm-gry, mcrxln
 LS: crm, sli gry, mcrxln, chalky, sli fos
 LS: crm, sli gry, mcr-fxln, Sh: gry
 LS: crm-gry-tan, mcr-fxln, sli fos, chalky, Sh: gry
 LS: crm-tan, mcr-fxln, sli chalky
 LS: tan- crm, chalky, mcr-fxln, Sh: grn-gry
 LS: A.A.
 LS: tan-gry, fxln, fos
 LS: A.A., chalky
 sample mostly chalk
 LS: crm-tan-gry, mcrxln, Sh: gry-lt gry
 LS: tan-crm sli gry, mcrxln some fxln, Sh: gry
 LS: tan-sli gry, mcr-fxln, sli ool, sli fos, sli chert, chalky, Sh: gry- lt gry

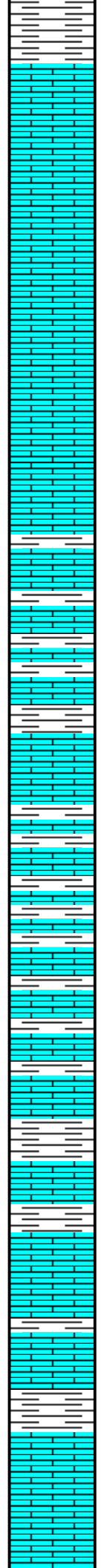
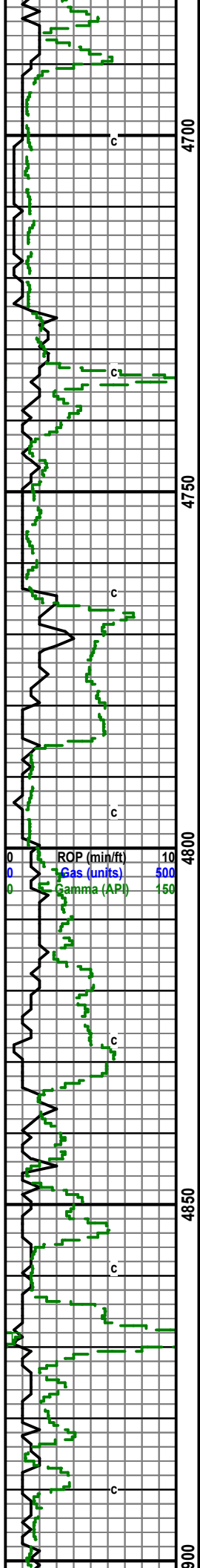
Lansing: 4271 (-1427)

TG, C1-C5
 0.1 10 100

Gas detector down
 gas test

Started 20' samples





Sh: gry-lt gry, LS: tan-crm, sli gry, mcr-fxln, friable, chalky, sli fos

LS: tan, oom-ool, pr-fr vis por, sub friable, sli chalky, no odor, no fluor, no show

LS: A.A.

LS: A.A. with some gry-crm mcrxln, sli chalky

LS: gry-crm, sli tan, mcrxln, sli chalky, Sh: gry

Sh: gry-drk gry, with some LS: A.A.

Sh: A.A. with some LS: tan, mcrxln, ool

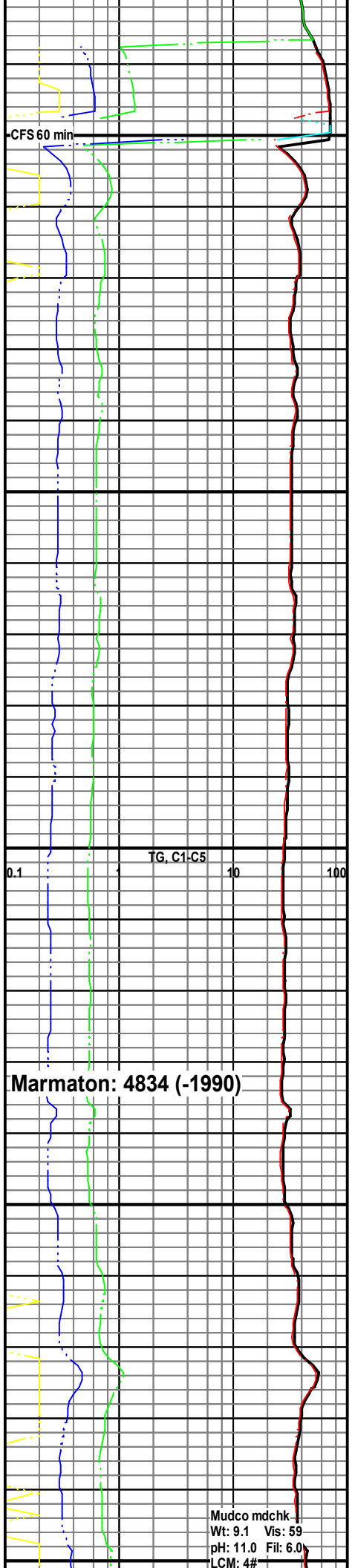
LS: gry-sli crm, mcrxln, sli chalky, Sh: gry

LS: crm-gry, mcrxln, sli chalky, some Sh: gry

LS: crm-gry, mcrxln, some Sh: gry

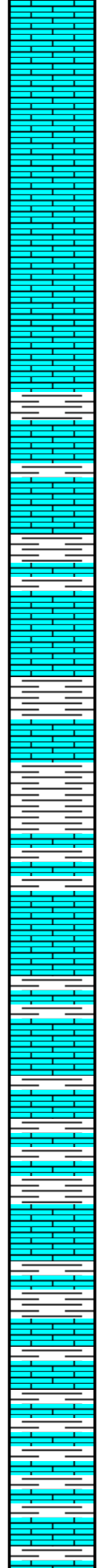
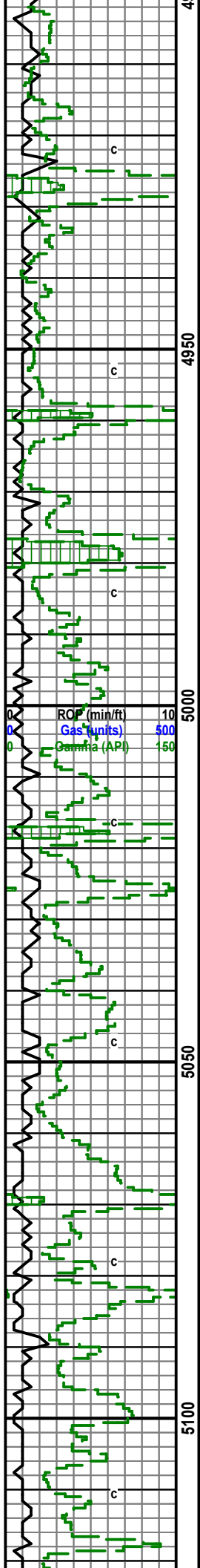
LS: gry-crm, sli tan, mcrxln, few fxln, sli fos, Sh: gry

LS: gry-crm, sli tan, mcrxln, sli fos.



Marmaton: 4834 (-1990)

Mudco mdchk
 Wt: 9.1 Vis: 59
 pH: 11.0 Fil: 6.0
 LCM: 4#



LS: crm-gry, sli tan, mcrxln, sli fos

LS: gry-crm, mcrxln, some fxln

LS: crm-gry, mcrxln sli fxln, Sh: drk gry-blck

LS: gry-crm, some tan, mcrxln few fxln, sli fos, Sh: blck

LS: crm-gry, mcrxln, Sh: lt gry-gry

Sh: gry-drk gry-lt gry, some LS: gry, sli crm, mcrxln,

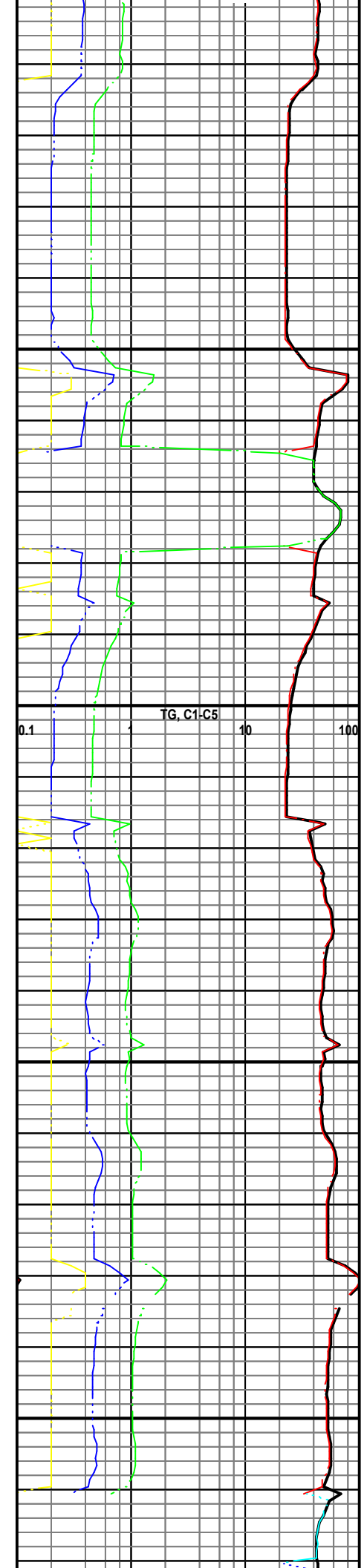
LS: gry, sli crm, mcrxln, sli fos, Sh: gry

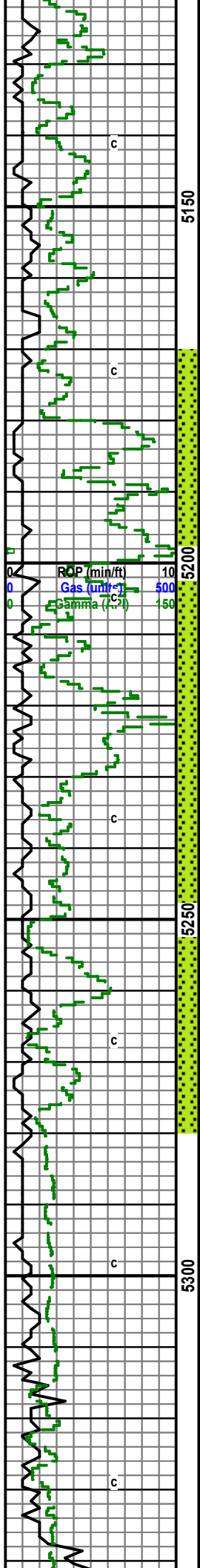
Ls and Sh: A.A.

LS: crm-tan, some gry, mcrxln, sli fxln, some Sh: gry-drk gry

LS: crm-gry, sli tan, mcr-fxln, sli fos, sli cherty, some Sh: blck-drk gry

LS: gry/crm-brwn/tan, mcrxln, sli fos, Sh: gry-drk gry





LS: crm-gry, some tan, mcr-fxln, sli fos, few pieces had vvpr ques sli show gas, no odor, pr dull yell fluor

LS: crm, sli tan-gry, mcrxln, some fxln, some Sh: gry-drk gry

LS: gry/crm, mcrxln, sli cherty, Sh: gry-drk gry-bck

LS: A.A. some crm-tan, mcr-fxln, sli chalky, Sh: gry-drk gry

LS: crm-gry, some tan/crm, mcrxln, sli fxln, few sandy, Sh: drk gry-gry, sli bck

LS: gry-crm, mcr-fxln, some sli sandy, vvr pos sho gas/condensate, pos dead oil

LS: crm-tan, sli gry, f-mcrxln, some sandy, quest stain on few, pos show fo, gas/condensate, pr vis por, no-sli odor, no fluor,

LS: crm-tan, mcr-fxln, some sandy, stain on few, sli SFO, sli gas, no odor, pr-no fluor, pr vis pp por

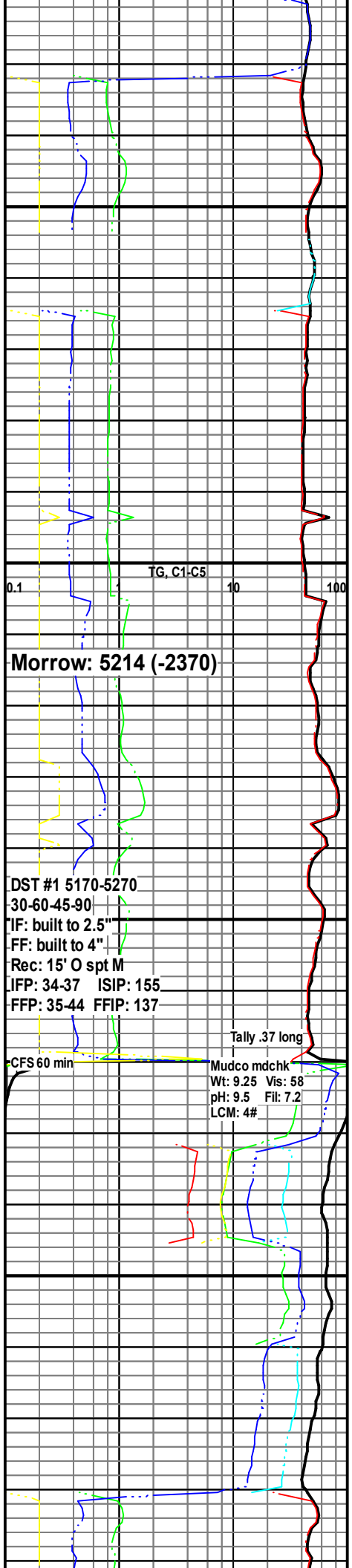
Some LS: A.A. with Sh: gry-grn

Sh: grn-gry-rd, some LS: crm-tan-gry, mcr-fxln, sli fos

Sh: grn-lt gry-gry, some red-yellow, some LS: crm-tan, mcr-fxln, sli sandy in prt, few pieces pos dead oil stn, cherty

Sh: gry-grn, sli red, LS: crm-gry, sli tan, mcr-fxln, some sli sandy,

Sh: lt gry, some grn, LS: crm-gry, mcrxln, sli fos, sli cherty, sli chalk



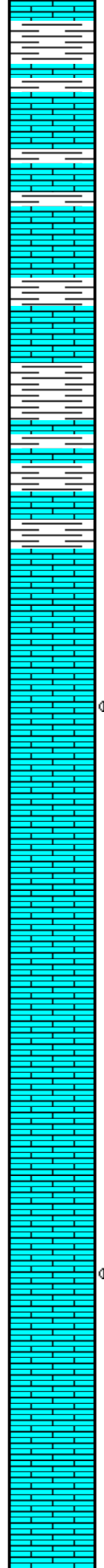
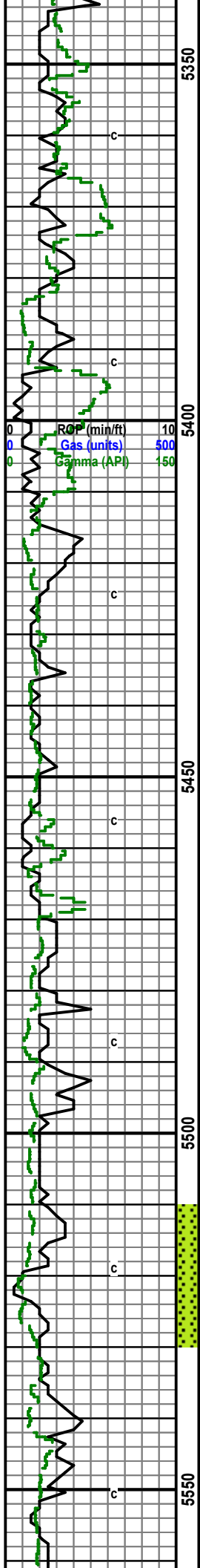
Morrow: 5214 (-2370)

DST #1 5170-5270
 30-60-45-90
 IF: built to 2.5"
 FF: built to 4"
 Rec: 15' O spt M
 IFP: 34-37 ISIP: 155
 FFP: 35-44 FFIP: 137

Tally .37 long

CFS 60 min

Mudco mdchk
 Wt: 9.25 Vis: 58
 pH: 9.5 Fil: 7.2
 LCM: 4#



5350
LS: crm-gry, mcrxln, some fxln, sli chalky, sli cherty, few pieces ool, Sh: A.A.

LS: crm-gry, mcrxln, few fxln, sli cherty, Sh: lt gry

5400
Sh: grn-red-lt gry, LS: crm, sli tan-gry, mcrxln, few fxln, sli fos, sli cherty, some chalk

Sh: A.A. with LS: crm, mcr-fxln, ool in prt,

LS: crm, mcr-fxln, ool in prt, few pieces have drk stain, and vssfo, no odor, dull fluor

5450
LS: crm, mcr-fxln, ool-sandy

LS: A.A. with some cherty pieces

5500
LS: A.A.

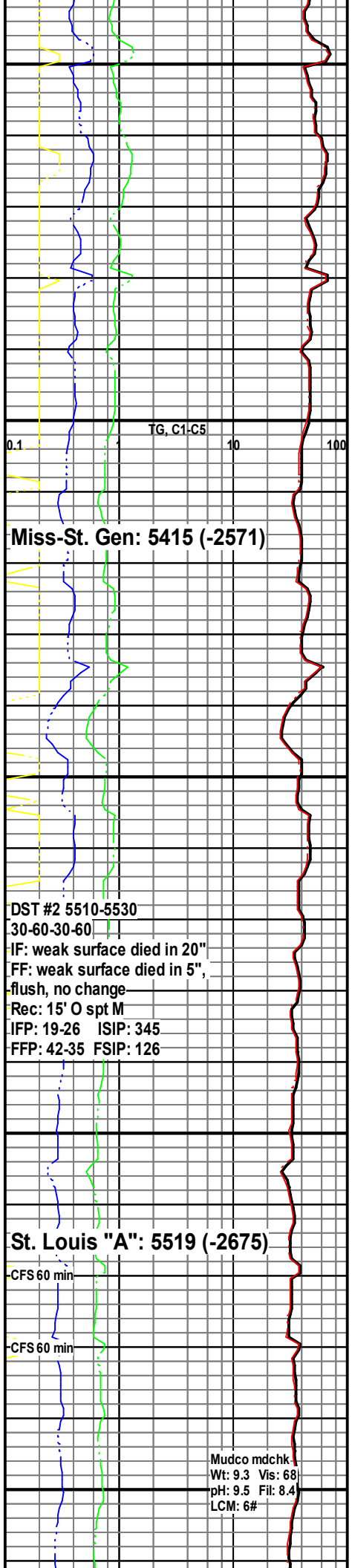
LS: A.A. with, crm-tan, mcrxln, cherty

LS: crm-tan fxln ool, fr stn, fr odor pr dull fluor, fr sfo in a few pieces

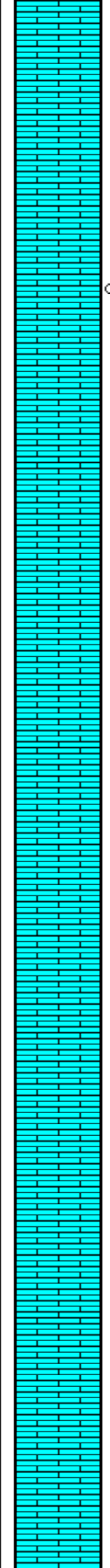
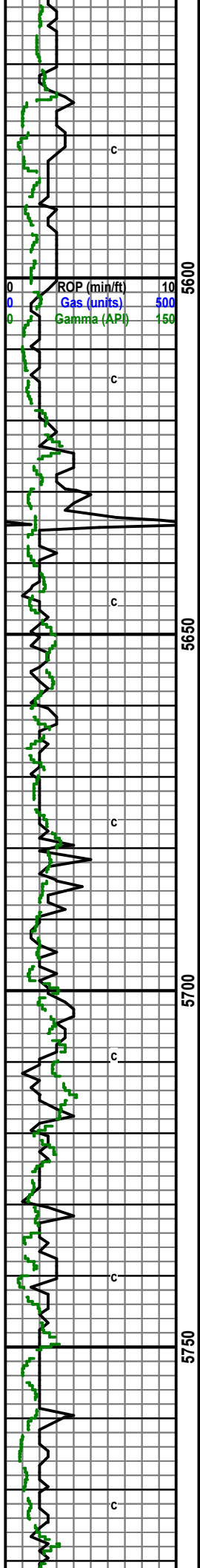
LS: crm-tan, mcrxln some chert

LS: crm-gry, fxln, sli mcrxln, chalky, Sample contained mostly Shale

5550
LS: crm, sli gry, fxln, few mcrxln, ool in prt, chalky



Mudco mdchk
Wt: 9.3 Vis: 68
pH: 9.5 Fil: 8.4
LCM: 6#



LS: A.A.

LS: crm, sli tan, fxln, some mcrxln, ool in prt, sli show gas/condesate, no vis por, no fluor, fr odor

LS: crm-gry, mcr-fxln, ool in prt, sli fos, chalky

LS: crm-gry, mcrxln,

LS: crm, sli tan, mcrxkn, cherty

LS: crm, sli tan, mcrxln, sli dolo, sli cherty, sli fos

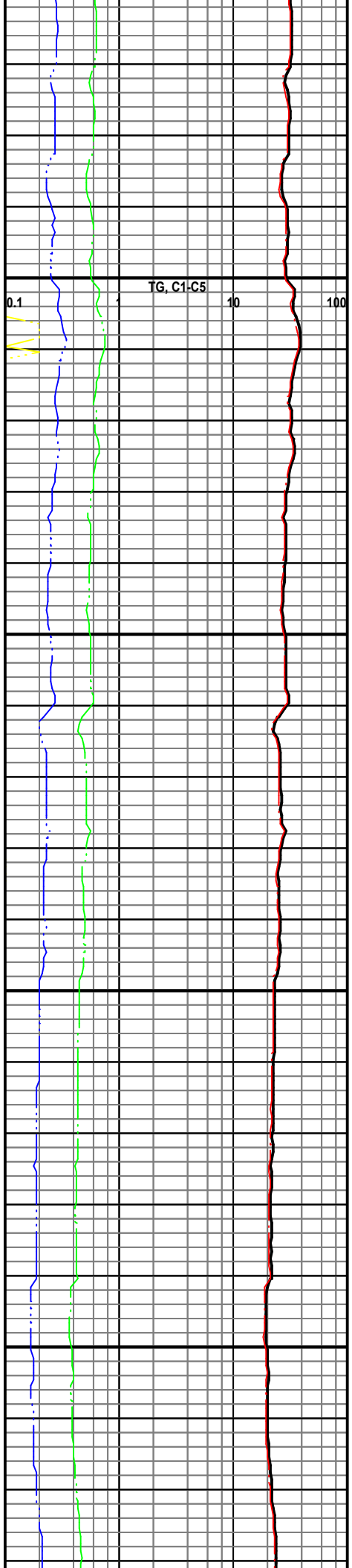
LS: crm-tan, mcrxln, sli dolo, sli fos

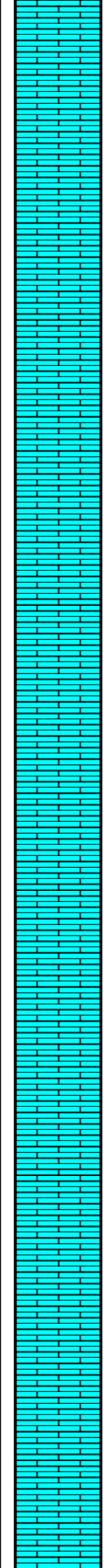
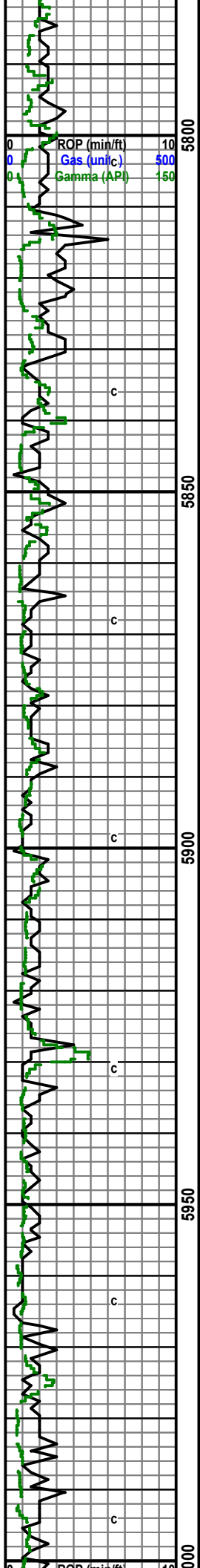
Dolo: gry, mcrxln,

LS: crm-tan, mcrxln, cherty dolomitic, some Dolo: A.A.

Sample A.A.

LS: crm tan gry mcr fxln Dolo: gry mcrxln





LS: crm-tan-gry, mcrxln, Dolo: gry, mcrxln

LS: crm, sli tan-gry, mcrxln, sli fos, few pieces Dolo: A.A.

LS: crm, sli gry, few tan, mcrxln, cherty, sli chalky

LS: crm-sli tan, sli gry, mcrxln, cherty, some Dolo: gry-tan, mcrxln

LS: crm-tan, mcrxln, cherty, sli chalky, Dolo: gry-tan, mcrxln

Sample A.A.

LS: crm, sli tan, mcrxln, fos, sli chalky, dolomitic

Sample A.A.

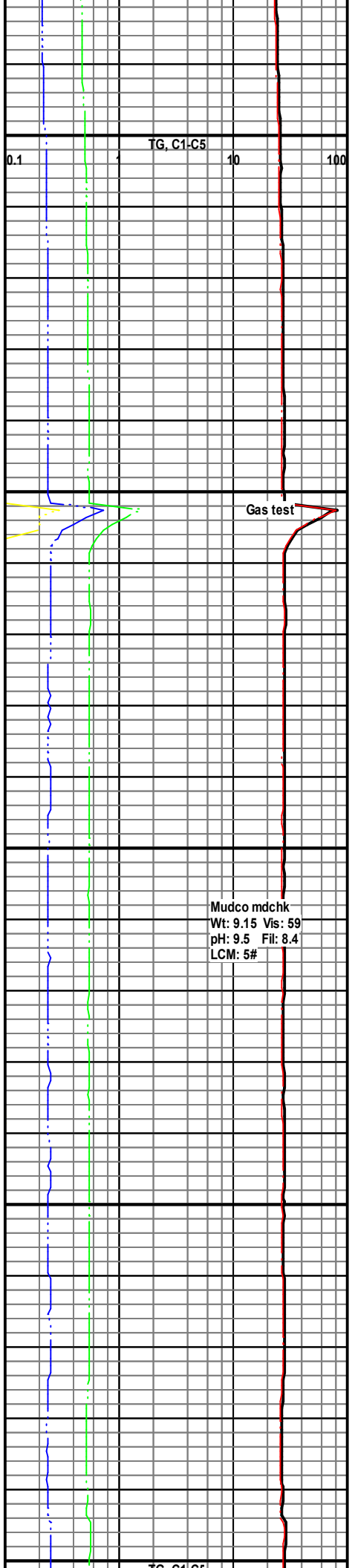
LS: crm, sli gry-tan, mcrxln, sli chalky, sli dolo

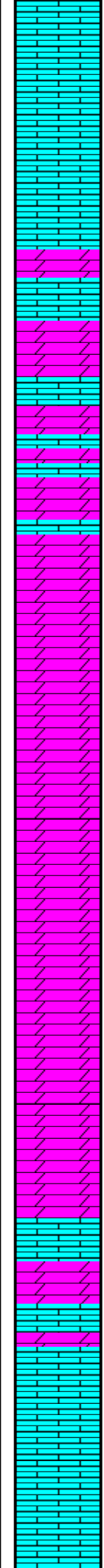
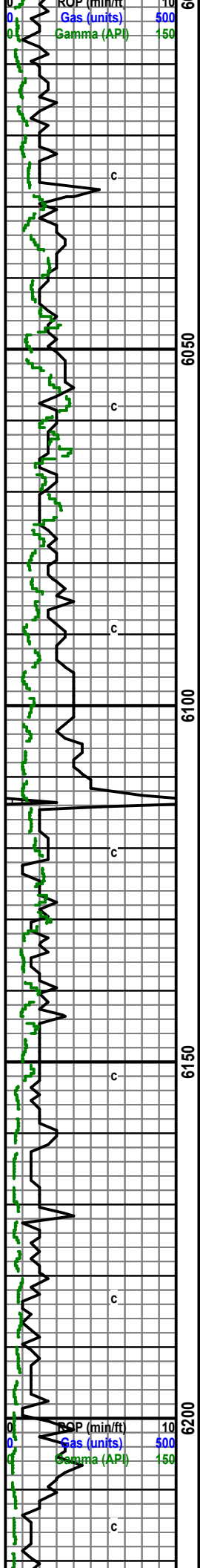
LS: crm, sli gry-tan, mcrxln, sli chalky, cherty, dolo

Sample mostly chalk, some LS: crm, few tan, mcrxln, sli fos, sli dolo

LS: crm-gry, dolo, mcrxln, sli fos, sli chert, chalky

Sample A.A.





A.A.

Dolo: gry, mcrxln, with LS: crm, sli tan-gry, mcrxln, sli cherty

Dolo: gry, mcrxln, some LS: crm, sli tan, mcrxln, chalky

Dolo: A.A.

No Sample

No Sample

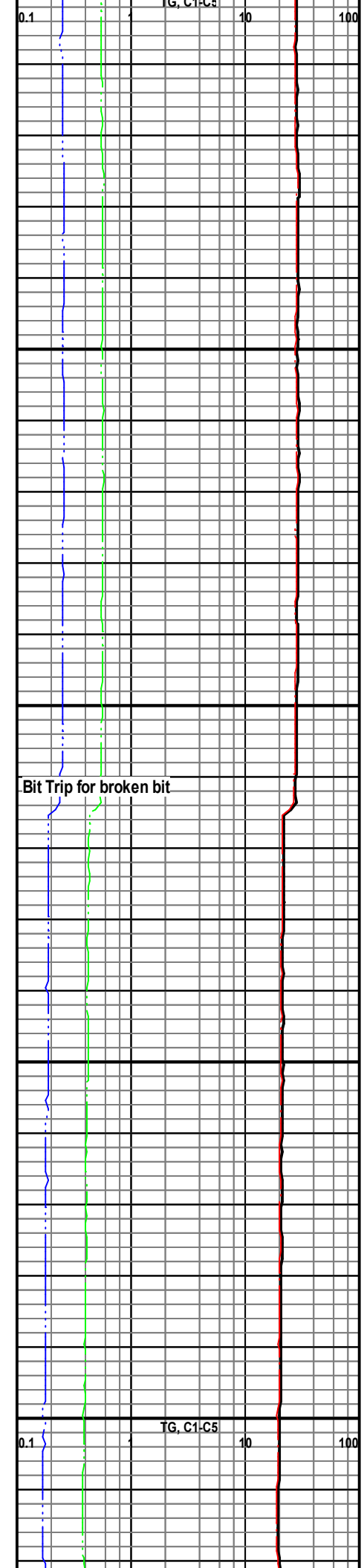
Dolo: gry, sli crm, mcrxln, sli cherty, some chalk

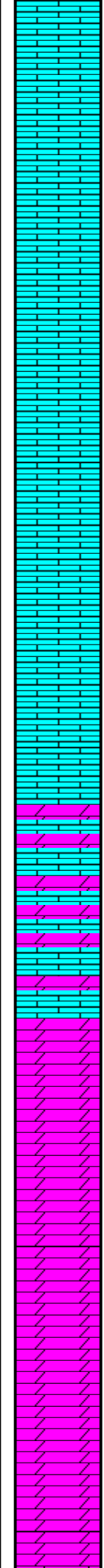
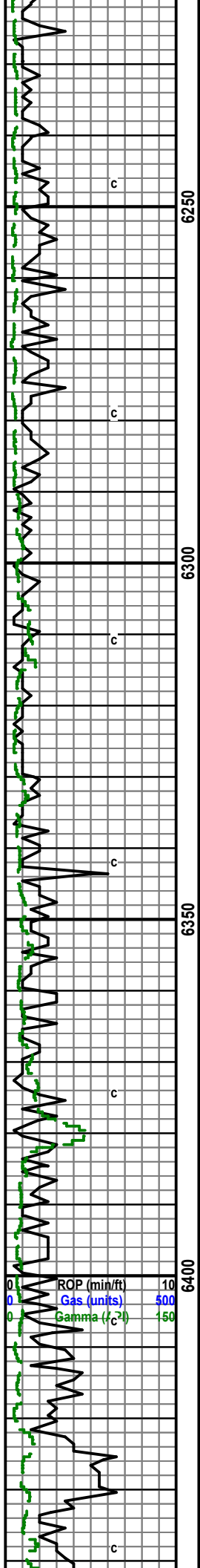
Dolo: gry-crm, mcrxln, sli limey, cherty, sli chalky

Dolo: A.A. some LS: crm, mcrxln, chalky

LS: crm, sli gry, mcrxln, sli dolo, cherty, sli chalky

LS: A.A. with Dolo: gry, mcrxln





LS: crm, sli gry-tan, mcrxln, chalky, cherty, sli dolo

LS: A.A.

Sample A.A.

LS: crm, mcrxln, sli chalky, sli cherty

LS: crm, sli gry, mcrxln, chalky, sli dolo

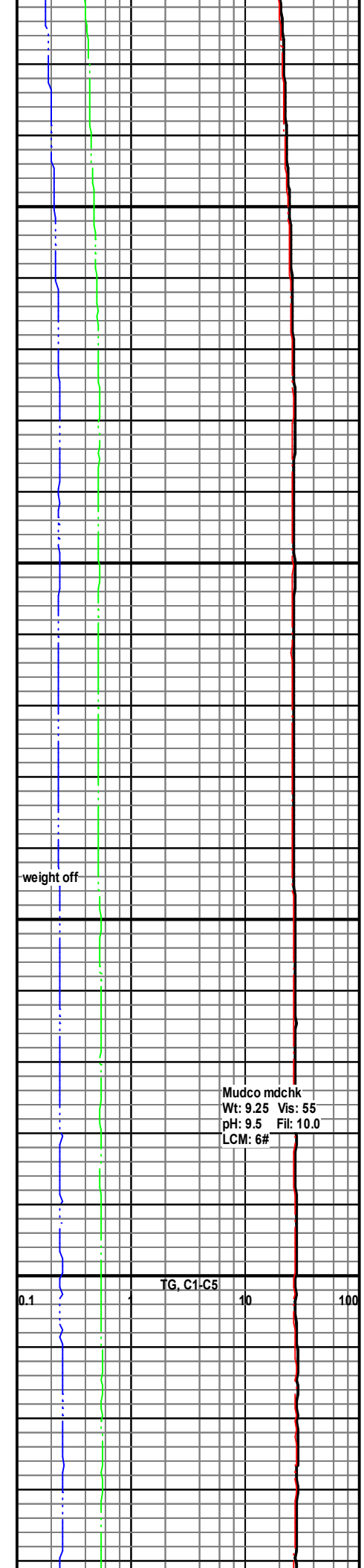
LS: A.A., Dolo: gry-tan, mcrxln, sli cherty

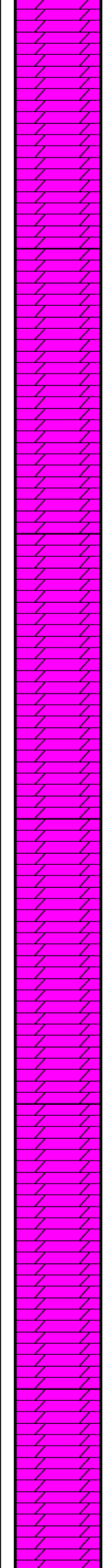
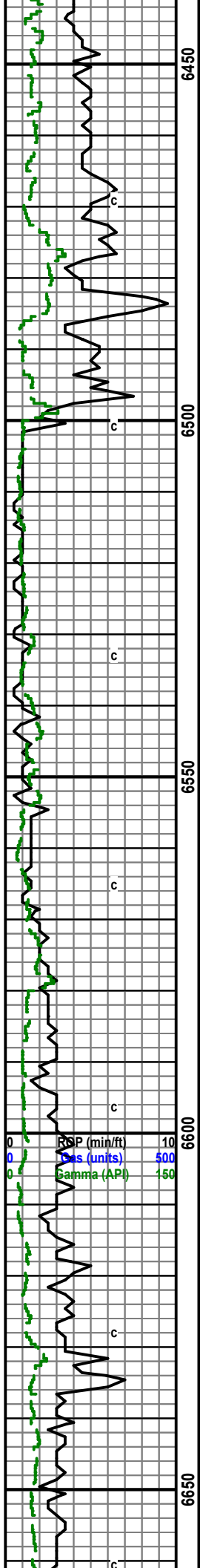
Sample A.A.

Dolo: gry, sli crm, mcrxln, some LS: crm, sli tan, mcrxln, cherty

Sample A.A.

Dolo: gry, sli crm, mcrxln, some LS: crm, mcrxln, sli chalky, cherty





Dolo: gry, sli crm, mcrxln, some LS: crm, mcrxln, cherty

Dolo: gry, sli crm, mcrxln, cherty

Dolo: gry-tan, sli crm, mcrxln, cherty

Dolo: A.A.

Dolo: gry-crm, mcrxln, chalky, cherty

Dolo: tan-sli gry, mcrxln, cherty, chalky

A.A.

Dolo: crm, sli gry, mcrxln, cherty, sli chalky

Dolo: crm, sli tan, mcrxln, cherty, sli chalky

Dolo: crm-tan, sli gry, mcrxln, cherty, sli chalky

Dolo: A.A.

Dolo: crm-tan, mcrxln, cherty, sli chalky

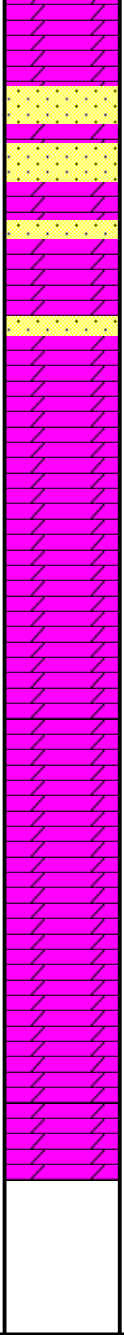
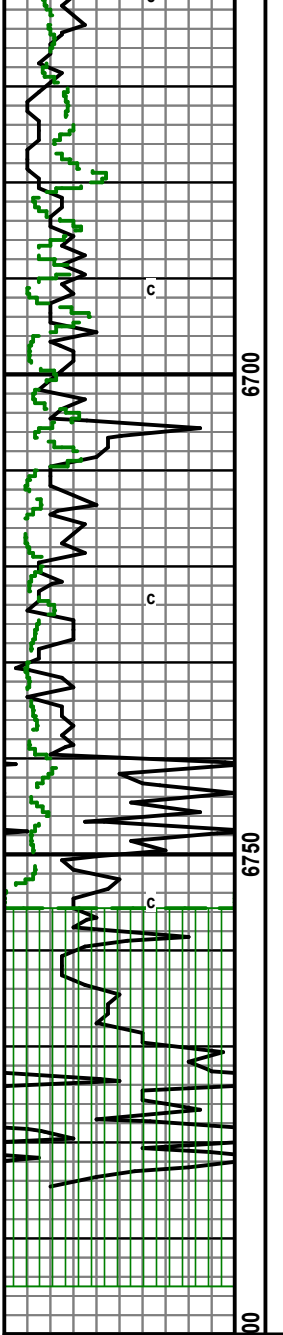
Dolo: crm-gry, sli tan/brwn, mcrxln, cherty

Viola: 6466 (-3622)

adjust WOB and RPM

CFS 90 min

TG, C1-C5
0.1 10 100



Dolo: A.A. with Sh: gry-lt gry, some SS: clear-opaque, sub-well round, well sort, dolo,

Dolo: tan-crm, sli gry, mcr-fxln, chalky, cherty, some SS: A.A.

Dolo: tan-crm, mcr-fxln, sli chalky, cherty

Dolo: tan-crm, mcr-fxln, sli chalky, cherty

Dolo: crm-tan, sli gry, mcrxln, cherty

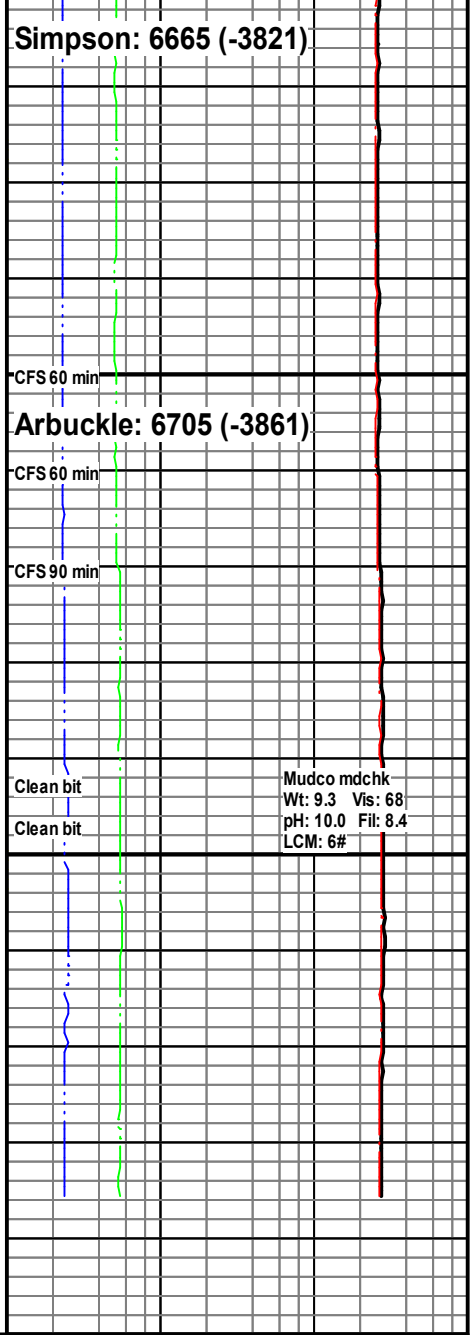
Dolo: crm-tan, mcrxln, few fxln, cherty

Dolo: A.A. with chalk

Dolo: A.A.

Dolo: crm-tan, mcrxln, cherty

RTD: 6785
LTD: 6787



Attached to ACO-1 form for
WHITE EXPLORATION, INC.
JACOBS-WOOD #2
1530' FNL and 2245' FWL
Section 1-30S-31W
API # 15-081-22154-00-00

Surface Casing Cement

Cemented with 400 sacks H-Con Cement with 6% gel, 3% CC and ¼#/sack Pheno-seal.
Followed by 225 sacks of Common Cement with 2% CC and ¼#/sack of Pheno-seal.

TREATMENT REPORT



HURRICANE SERVICES INC

Customer: White Exploration Inc.	Date: 1/26/2017 2/24/17	Ticket No.: 100723
Field Rep: Terry Baird		
Address:		
City, State:		
County, Zip:		

Field Order No.: 100723	Open Hole: 1781'	Perf Depths (ft)	Perfs
Well Name: Jacobs-Wood #2	Casing Depth: 1781'		
Location: Copeland	Casing Size: 8 5/8 24#		
Formation:	Tubing Depth:		
Type of Service: Surface	Tubing Size:		
Well Type: Oil	Liner Depth:		
Age of Well: New	Liner Size:		
Packer Type:	Liner Top:		
Packer Depth:	Liner Bottom:		
Treatment Via: Casing	Total Depth: 1782'	Total Perfs	0

TIME	INJECTION RATE FLUID	H2CO2	STP	PRESSURE ANNULUS	REMARKS	PROP (lb)	HCL (qt)	FLUID (bbl)
7:30 AM					Called Out			
12:00 PM					On Location W/FE			
1:30 PM					On Location W/ Trucks			
					Hold Safety Meeting Spot & Set Up Trucks			
					Run 44 Joints 8 5/8 24# Casing Set @ 1781'			
					Reg Guide Shoe & AFU Insert First Jt @ 40-43'			
					Centralizers on Jt's 1/2 way First Jt 30-31			
					Cement Basket On Jt Pin 31			
2:30 PM					Start Casing			
4:20 PM					Casing On Bottom Drop Ball			
4:30 PM					Hook Up To Casing & Break Circulation W Rig			
5:20 PM	5.0			150.0	Start Pumping H2O			10.00
5:24 PM	5.0			170.0	Start Mix Lead 400 Sx H Con 3% C.C. 1H/Sx Pheno-Seal			
					11.6 #Gal			
6:07 PM	5.5			220.0	Start Mix Tail 200 Sx Common 2% C.C. 1H/Sx Pheno-Seal			201.00
					14.8 #Gal			
6:32 PM					Shut Down Release 8 5/8 Top Rubber Plug			54.90
6:35 PM	3.0			100.0	Start Displacement H2O			
TOTAL:						-	-	354.22

Max Fl Rate	Avg Fl Rate	Max PSI	Avg PSI
5.5	3.7	1,000.0	328.0

PRODUCTS USED

Treater: Todd Soba

Customer: Terry Baird

TREATMENT REPORT



HURRICANE SERVICES INC

Customer: White Exploration Inc.	Date: 3/7/2017	Ticket No.: 100725
Field Rep: Terry Baird		
Address:		
City, State:		
County, Zip:		

Field Order No.: 100725	Open Hole:	Perf Depths (ft)	Perfs
Well Name: Jacobs-Wood #2	Casing Depth: 6720		
Location: Copeland	Casing Size: 4 1/2 DP		
Formation:	Tubing Depth:		
Type of Service: PTA	Tubing Size:		
Well Type: Oil	Liner Depth:		
Age of Well: New	Liner Size:		
Packer Type:	Liner Top:		
Packer Depth:	Liner Bottom:		
Treatment Via: Drill Pipe	Total Depth: 6785'		
		Total Perfs 0	

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (b/s)	HCL (g/s)	FLUID (b/s)
	FLUID	H ₂ O ₂	STP	ANNULUS				
10:15 AM					Called Out			
2:15 PM					On Location Rig Circulating			
2:20 PM					Hold Safety Meeting Spot & Set Up Trucks			
					1st Plug @ 6720' 50 Sx 60/40 4% Gel 1H 8/3x PS			
					Hook Up To Drill Pipe			
2:50 PM	4.0		400.0		Start Pumping H20			29.00
	4.0		400.0		Start Mix & Pump 50 sx 60/40 4% Gel 1H 8/3x PS @ 13.8			12.65
	4.0		400.0		Start Displacement H20			5.00
3:00 PM					Shut Down Rig Displace w/Mud			87.60
					Rig LDDP			
					2nd Plug @ 1785' 50 Sx 60/40 4% Gel 1H 8/3x PS @ 13.8			
6:10 PM					Hook Up To Drill Pipe			
6:12 PM	4.0		200.0		Start Pumping H20			
	4.0		200.0		Start Mix & Pump 50 sx 60/40 4% Gel 1H 8/3x PS @ 13.8			12.65
	4.0		200.0		Start Displacement H20			22.00
6:24 PM					Shut Down			
					RLODP			
					3rd Plug @ 610' 40 Sx 60/40 4% Gel 1H 8/3x PS			
TOTAL:								

Max FL Rate	Avg FL Rate	Max PSI	Avg PSI
4.0	3.5	400.0	216.7

PRODUCTS USED

Treater: Todd Seba

Customer: Terry Baird

TREATMENT REPORT



HURRICANE SERVICES INC

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
7:00 PM					Hook Up To Drill Pipe			
7:03 PM	4.0		150.0		Start Pumping H2O			
	4.0		150.0		Start Mix & Pump 40 Sx 60/40 4%Gel 1/4#/SxPS @13.8			10.12
	4.0		150.0		Start Displacement H2O			7.00
7:11 PM					Shut Down			
					RLDDP			
7:30 PM	2.0		150.0		4 th Plug 60' 20 sx 60/40 4%Gel 1/4#/Sx PS @ 13.8			6.06
	2.0		100.0		Mouse Hole 20 Sx 60/40 4%Gel 1/4 #/Sx PS @13.8			7.59
7:45 PM	2.0		100.0		Rat Hole 30 Sx 60/40 4%Gel 1/4 #/Sx PS @13.8			5.06
					Wash Up Truck & Rack Up Truck			
					Total 210 Sx 60/40 4% Gel 1/4 #/Sx PS			
					Off Location			
					Thank You			
					Please Call Again			
					Todd Tony Dave			