

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1234661

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

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

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: _____

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

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 <i>(Attach Additional Sheets)</i>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ Used Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

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

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

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			Depth
TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: ☐ Yes ☐ No			
Date of First, Resumed Production, SWD or ENHR.			Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____					
Estimated Production Per 24 Hours	Oil	Bbbs.	Gas	Mcf	Water	Bbbs.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>		METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> ☐ Other <i>(Specify)</i> _____		PRODUCTION INTERVAL: _____ _____	
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Form	ACO1 - Well Completion
Operator	AGV Corp.
Well Name	AR15 Yarmer 1
Doc ID	1234661

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	958	Light and Common	400	2%gel, 3% cc

ALLIED OIL & GAS SERVICES, LLC

055603

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

DATE <u>12.2.14</u>	SEC. <u>30</u>	TWP. <u>15</u>	RANGE <u>15</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>AK-15</u>	WELL # <u>1</u>	LOCATION <u>Russell</u>			COUNTY <u>Russell</u>	STATE <u>Kc</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Fossil Drilling

TYPE OF JOB 12 1/2" Surface (Long)

HOLE SIZE 8 7/8 T.D.

CASING SIZE 8 7/8 DEPTH 958'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 44.52

CEMENT LEFT IN CSG. 44.52

PERFS.

DISPLACEMENT 57.18 6 1/2

EQUIPMENT

PUMP TRUCK CEMENTER Danny Afford

417 HELPER Danny S

BULK TRUCK

985-292 DRIVER Tracy J.

BULK TRUCK

378 DRIVER Tim P

REMARKS:

See Cementing Job Log

Cement to Surface

CHARGE TO: AGV Corp.

STREET

CITY STATE ZIP

To: Allied Oil & Gas Services, LLC.

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

PRINTED NAME Craig E. Russell

SIGNATURE Craig E. Russell

OWNER

CEMENT

AMOUNT ORDERED 20050c Allied Lite.

31cc 4 1/4 ccl

20050c Com + 31cc 2 1/2"

Allied Lite. 20050c

COMMON	<u>20050c</u>	@	<u>19.88</u>	\$ <u>3,976.00</u>
POZMIX		@		
GEL	<u>376 lb</u>	@	<u>.50</u>	\$ <u>188.00</u>
CHLORIDE	<u>1,128 lb</u>	@	<u>1.10</u>	\$ <u>1,240.00</u>
ASC		@		
Common - 20050c		@	<u>17.90</u>	\$ <u>3,580.00</u>
		@		
Cell Flite 2 100lb		@	<u>2.97</u>	\$ <u>297.00</u>
		@		
		@		
		@		
		@		
HANDLING	<u>400sk Ft</u>	@	<u>2.48</u>	\$ <u>992.00</u>
MILEAGE	<u>188 Tim</u>	@	<u>2.75</u>	\$ <u>517.00</u>
TOTAL				\$ <u>10,790.00</u>

SERVICE

DEPTH OF JOB 958'

PUMP TRUCK CHARGE 7 2058.50

EXTRA FOOTAGE @

MILEAGE Heavy 10 @ 7.7 \$ 77.0

MANIFOLD light 10 @ 4.4 \$ 44.0

1x 8 7/8 Plug Container @ — \$ 275.00

TOTAL \$ 2,454.50

PLUG & FLOAT EQUIPMENT

1x 1 3/8 Top Rubber Plug	@	<u>—</u>	\$ <u>131.00</u>
3x 8 7/8 Porting Lines	@	<u>75.0</u>	\$ <u>225.00</u>
1x 8 7/8 Flapper Line	@	<u>—</u>	\$ <u>447.00</u>
	@		
	@		
TOTAL \$ <u>803.00</u>			

SALES TAX (If Any)

TOTAL CHARGES \$ 14,048.30

DISCOUNT \$ 3,933.30 IF PAID IN 30 DAYS

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "ALLIED" shall mean Allied Oil & Gas Services, LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate. Any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:**

1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES:

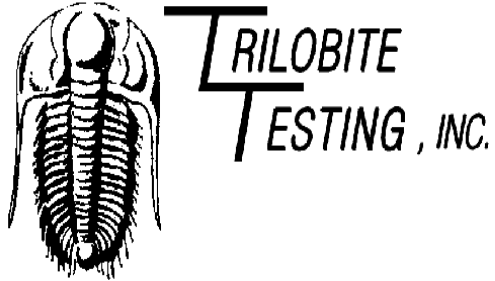
1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent, and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



DRILL STEM TEST REPORT

Prepared For: **AGV corp**

Po Box 377 Attica KS 67009+0377

ATTN: Kent Roberts

AR 15 Yarmer #1

30-15s-15w Russell

Start Date: 2014.12.06 @ 11:00:00

End Date: 2014.12.06 @ 16:03:57

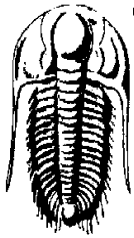
Job Ticket #: 61891 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.12.11 @ 13:05:00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

AGV corp

Po Box 377 Attica KS 67009+0377

ATTN: Kent Roberts

30-15s-15w Russell

AR 15 Yarmer #1

Job Ticket: 61891

DST#: 1

Test Start: 2014.12.06 @ 11:00:00

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:56:16

Time Test Ended: 16:03:57

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: S5-Great Bend-70

Interval: 3186.00 ft (KB) To 3236.00 ft (KB) (TVD)

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3236.00 ft (KB) (TVD)

1841.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8400

Press@RunDepth: 40.07 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.12.06

End Date:

2014.12.06

Last Calib.:

2014.12.06

Start Time: 11:00:01

End Time:

16:03:56

Time On Btm:

2014.12.06 @ 12:55:57

Time Off Btm:

2014.12.06 @ 14:25:42

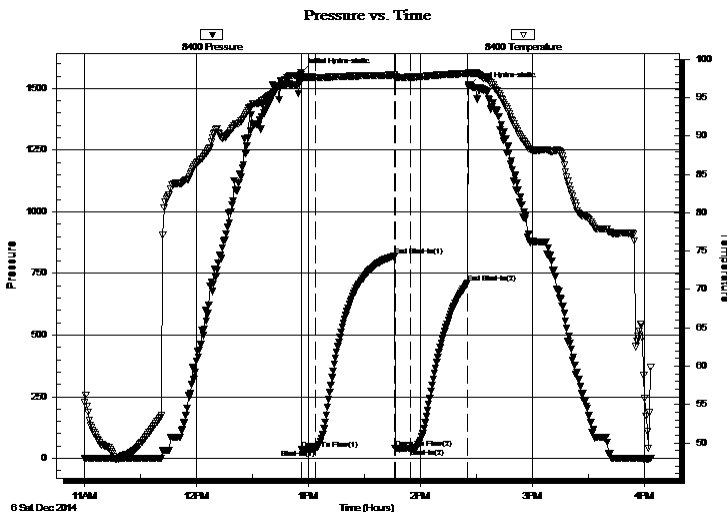
TEST COMMENT: IFP- 5 Minutes-Weak blow built 1 inch into bucket

ISIP-45 Minutes-No blow back

FFP-5 Minutes-Very weak surge did not build

FSIP-30 Minutes-No blow back

PRESSURE SUMMARY



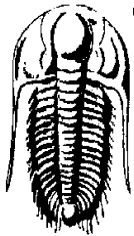
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1565.00	97.99	Initial Hydro-static
1	37.53	97.60	Open To Flow (1)
8	37.72	97.67	Shut-In(1)
51	819.57	97.94	End Shut-In(1)
51	39.84	97.56	Open To Flow (2)
59	40.07	97.69	Shut-In(2)
90	710.04	98.14	End Shut-In(2)
90	1505.52	98.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

AGV corp

30-15s-15w Russell

Po Box 377 Attica KS 67009+0377

AR 15 Yarmer #1

Job Ticket: 61891

DST#: 1

ATTN: Kent Roberts

Test Start: 2014.12.06 @ 11:00:00

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

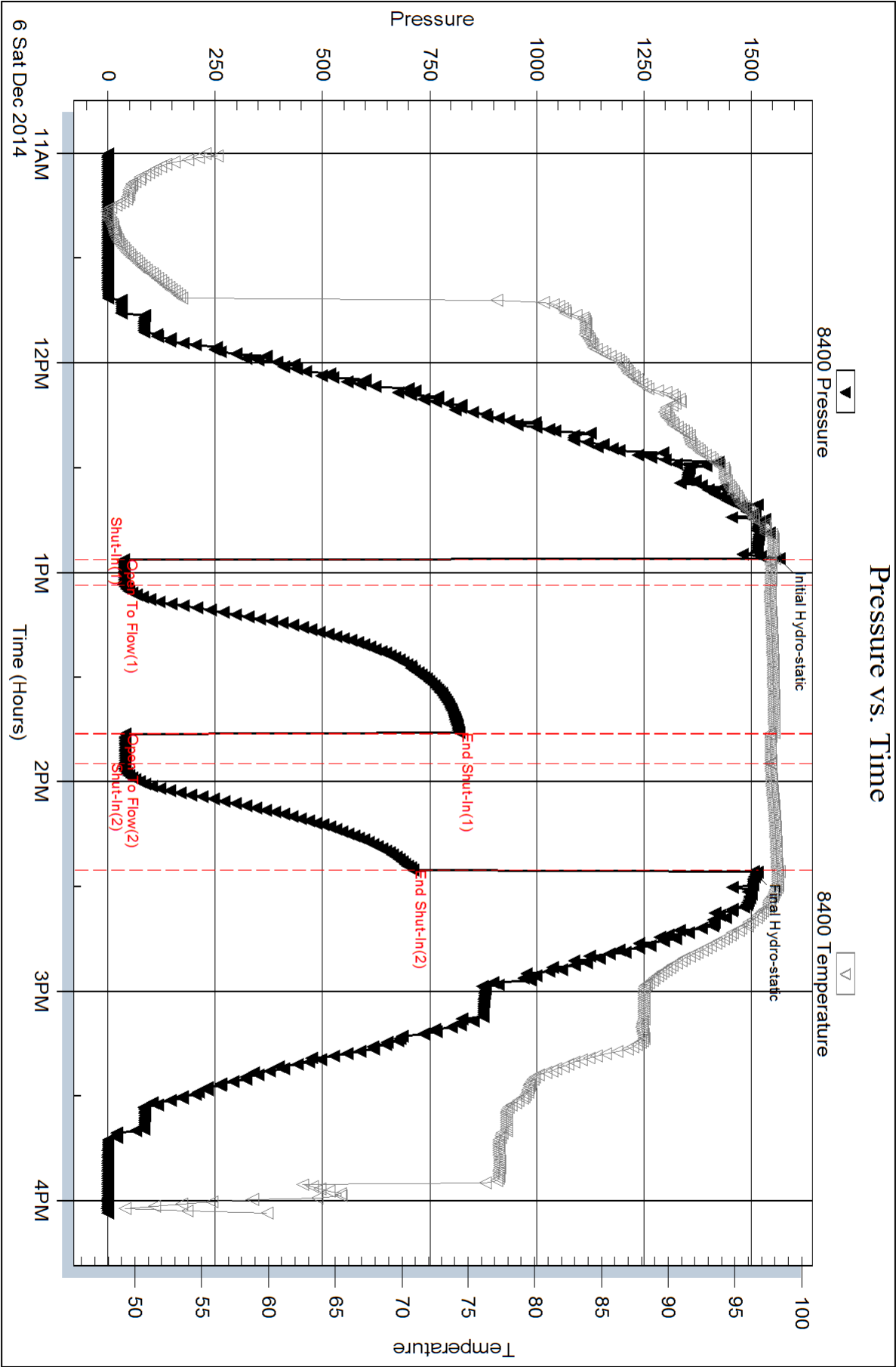
Recovery Comments:

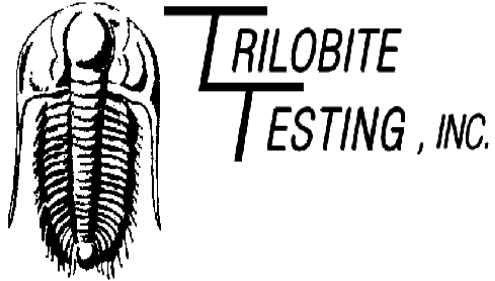
Serial #: 8400

AGV corp

AR 15 Yarner #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **AGV corp**

Po Box 377 Attica KS 67009+0377

ATTN: Kent Roberts

AR 15 Yarmer #1

30-15s-15w Russell

Start Date: 2014.12.07 @ 03:20:00

End Date: 2014.12.07 @ 09:50:25

Job Ticket #: 61892 DST #: 2

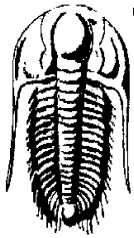
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.12.11 @ 13:05:55

AGV corp
30-15s-15w Russell
AR 15 Yarmer #1
DST # 2
LKC ' I J K'
2014.12.07



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

AGV corp

Po Box 377 Attica KS 67009+0377

ATTN: Kent Roberts

30-15s-15w Russell

AR 15 Yarmer #1

Job Ticket: 61892

DST#: 2

Test Start: 2014.12.07 @ 03:20:00

GENERAL INFORMATION:

Formation: **LKC ' I J K'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:18:28

Time Test Ended: 09:50:25

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: S5-Great Bend -70

Interval: 3274.00 ft (KB) To 3354.00 ft (KB) (TVD)

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3354.00 ft (KB) (TVD)

1841.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8400

Press@RunDepth: 53.99 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.12.07

End Date:

2014.12.07

Last Calib.: 2014.12.07

Start Time: 03:20:01

End Time:

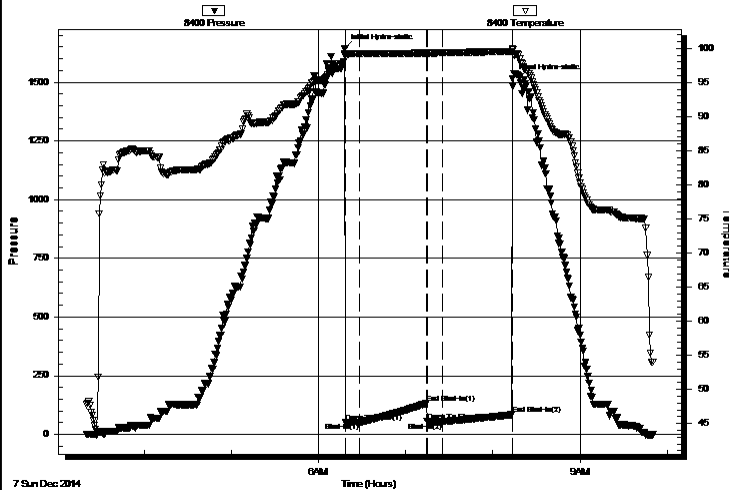
09:50:25

Time On Btm: 2014.12.07 @ 06:17:54

Time Off Btm: 2014.12.07 @ 08:13:24

TEST COMMENT: IFP-10 Minutes-Weak blow built 1 inch into water
ISIP-45 Minutes-No blow back
FFP-10 Minutes-Very weak surge did not build
FSIP-45 Minutes-No blow back

Pressure vs. Time



PRESSURE SUMMARY

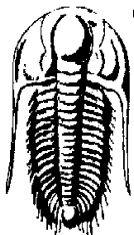
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.65	99.22	Initial Hydro-static
1	52.55	99.11	Open To Flow (1)
11	52.40	99.22	Shut-In(1)
57	132.69	99.33	End Shut-In(1)
57	55.98	99.29	Open To Flow (2)
68	53.99	99.35	Shut-In(2)
116	83.81	99.57	End Shut-In(2)
116	1516.57	100.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud spot oil 1%oil 99% mud	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

AGV corp

30-15s-15w Russell

Po Box 377 Attica KS 67009+0377

AR 15 Yarmer #1

Job Ticket: 61892

DST#: 2

ATTN: Kent Roberts

Test Start: 2014.12.07 @ 03:20:00

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud spot oil 1%oil 99%mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

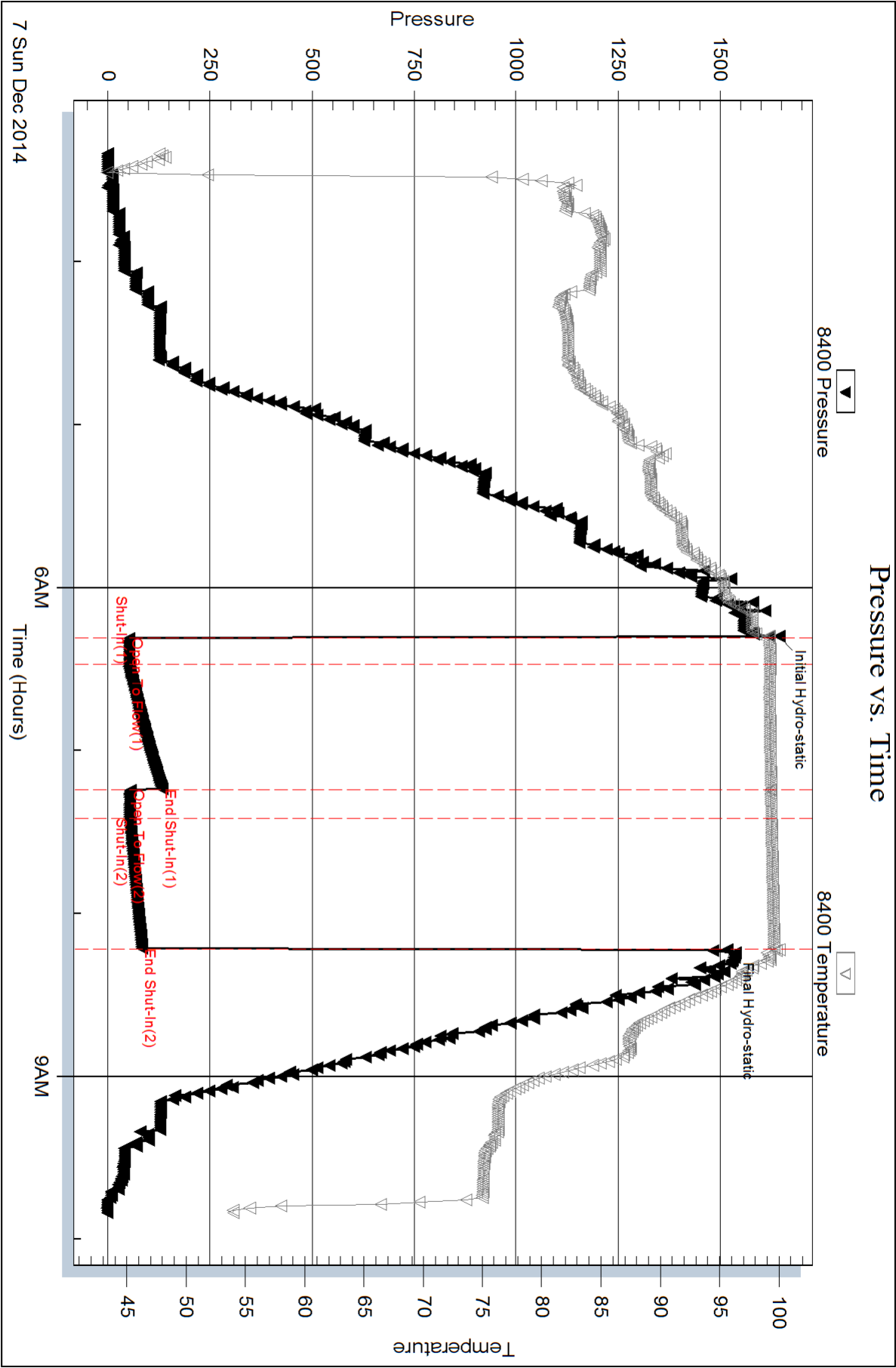
Recovery Comments:

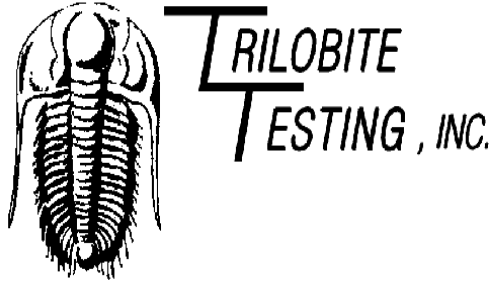
Serial #: 8400

AGV corp

AR 15 Yarner #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **AGV corp**

Po Box 377 Attica KS 67009+0377

ATTN: Kent Roberts

AR 15 Yarmer #1

30-15s-15w Russell

Start Date: 2014.12.08 @ 19:25:00

End Date: 2014.12.09 @ 01:19:58

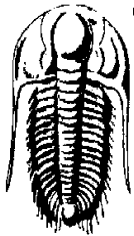
Job Ticket #: 61893 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.12.11 @ 13:06:35



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

AGV corp

Po Box 377 Attica KS 67009+0377

ATTN: Kent Roberts

30-15s-15w Russell

AR 15 Yarmer #1

Job Ticket: 61893

DST#: 3

Test Start: 2014.12.08 @ 19:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:51:23

Time Test Ended: 01:19:58

Interval: **3430.00 ft (KB) To 3440.00 ft (KB) (TVD)**

Total Depth: 3440.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: S5-Great Bend-70

Reference Elevations: 1850.00 ft (KB)

1841.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8400

Press@RunDepth: 77.36 psig @ ft (KB)

Start Date: 2014.12.08

End Date:

2014.12.09

Start Time: 19:25:01

End Time:

01:19:58

Capacity: 5000.00 psig

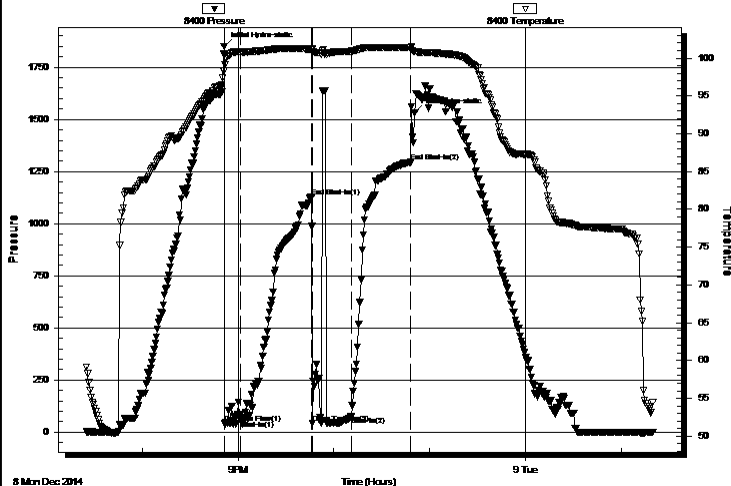
Last Calib.: 2014.12.08

Time On Btm: 2014.12.08 @ 20:51:08

Time Off Btm: 2014.12.08 @ 22:50:35

TEST COMMENT: IFP-10 Minutes-Weak blow built 1 1/2 inches into bucket
ISIP-45 Minutes-No blow back
FFP-10 Minutes-No blow flushed tool weak surge did not build
FSIP-45 Minutes-No blow back

Pressure vs. Time



PRESSURE SUMMARY

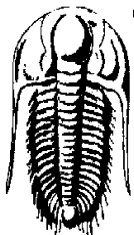
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.91	98.34	Initial Hydro-static
1	43.08	98.35	Open To Flow (1)
11	55.47	100.84	Shut-In(1)
55	1129.65	101.19	End Shut-In(1)
56	43.17	100.78	Open To Flow (2)
80	77.36	100.91	Shut-In(2)
118	1294.78	101.34	End Shut-In(2)
120	1530.54	100.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

AGV corp

30-15s-15w Russell

Po Box 377 Attica KS 67009+0377

AR 15 Yarmer #1

Job Ticket: 61893

DST#: 3

ATTN: Kent Roberts

Test Start: 2014.12.08 @ 19:25:00

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

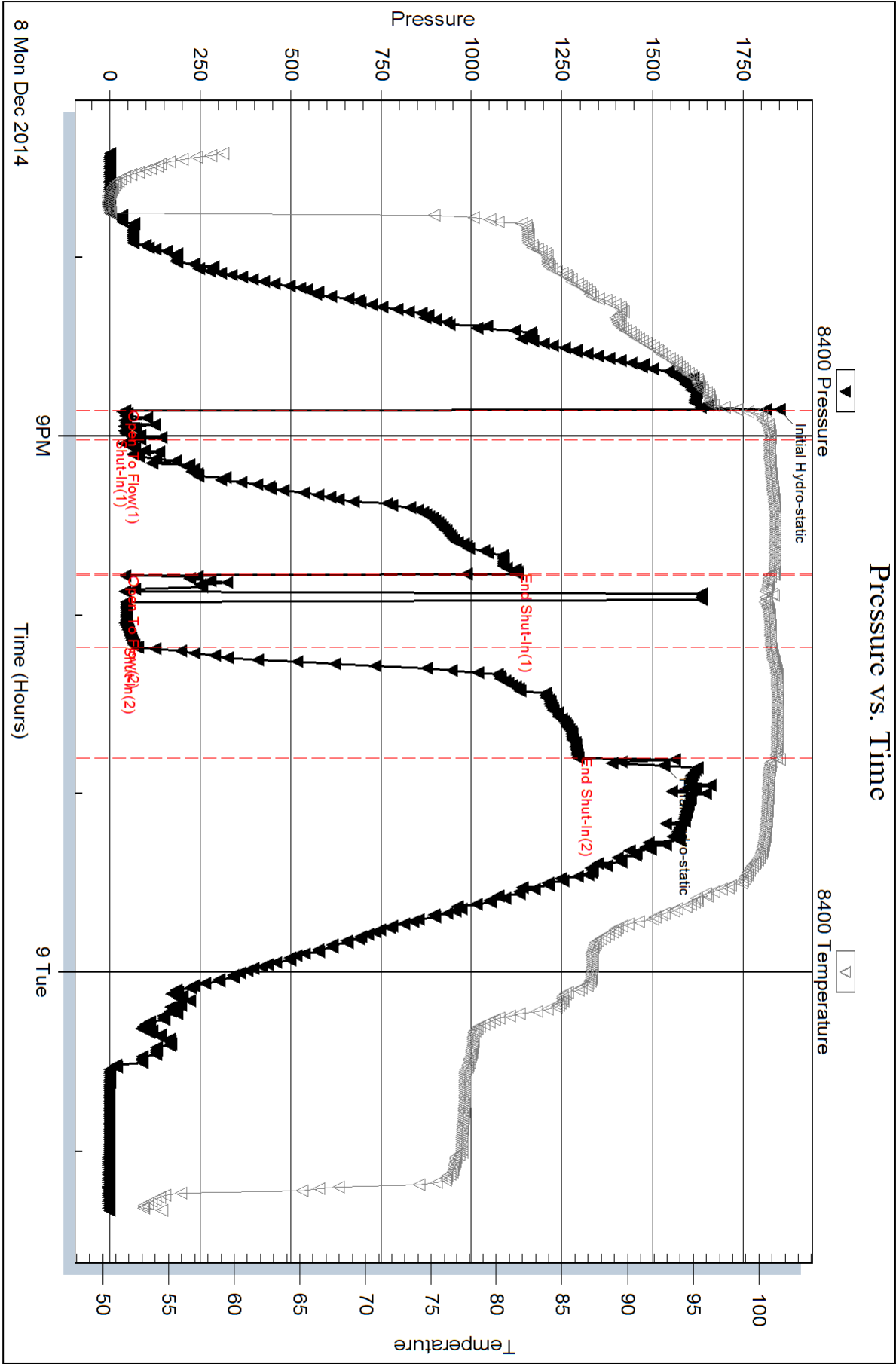
Recovery Comments:

Serial #: 8400

AGV corp

AR 15 Yarner #1

DST Test Number: 3



AGV CORP.

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

Well Name: AR-15 Yarmer #1
Location: Sec. 30-T15S-R15W Russell County, Kansas
Licence Number: 15-167-24019-00-00
Spud Date: 12/1/2014
Surface Coordinates: 2279' FSL & 3024' FEL
Region: Wildcat
Drilling Completed: 12/8/2014

Bottom Hole
Coordinates:
Ground Elevation (ft): 1841' K.B. Elevation (ft): 1849'
Logged Interval (ft): 2500' To: RTD Total Depth (ft): 3472'
Formation: Arbuckle
Type of Drilling Fluid: Chemical Mud by Mud-Co

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

GEOLOGIST

Name: Kent Roberts
Company: Roberts Resources, Inc.
Address: 2020 N. Tyler, Suite 106
Wichita, KS 67212
Phone 316-721-2817

INFORMATION

DRILLING CONTRACTOR: Fossil Drilling Rig #2

MUD TYPE: Chemical

DRILLING TIME KEPT FROM: 2500' to RTD

SAMPLES SAVED FROM: 2500' to RTD

SAMPLES EXAMINED FROM: 2850' to RTD

GEOLOGICAL SUPERVISION FROM: 2600' to RTD

ELECTRICAL SURVEYS: None

DAILY ACTIVITY @ 0700 HRS

12/01/2014 MIRT, Spud well 7:30 PM
12/02/2014 Depth 725', drilling w/ 12-1/4 bit
12/03/2014 Depth 965', Wait on Cement (12 hrs)
12/04/2014 Depth 1820', Drilling
12/05/2014 Depth 2703', Drilling
12/06/2014 Depth 3236'. Short trip prior to DST #1
12/07/2014 Depth 3354'. On bottom w/ DST #2
12/08/2014 Depth 3448'. Drilling after DST #3

CASING DATA

CONDUCTOR CASING: None

SURFACE CASING: 8-5/8" x 24# LS @ 958' w/ 200 sx Allied Light and 200 sx Common (2% gel, 3% cc)

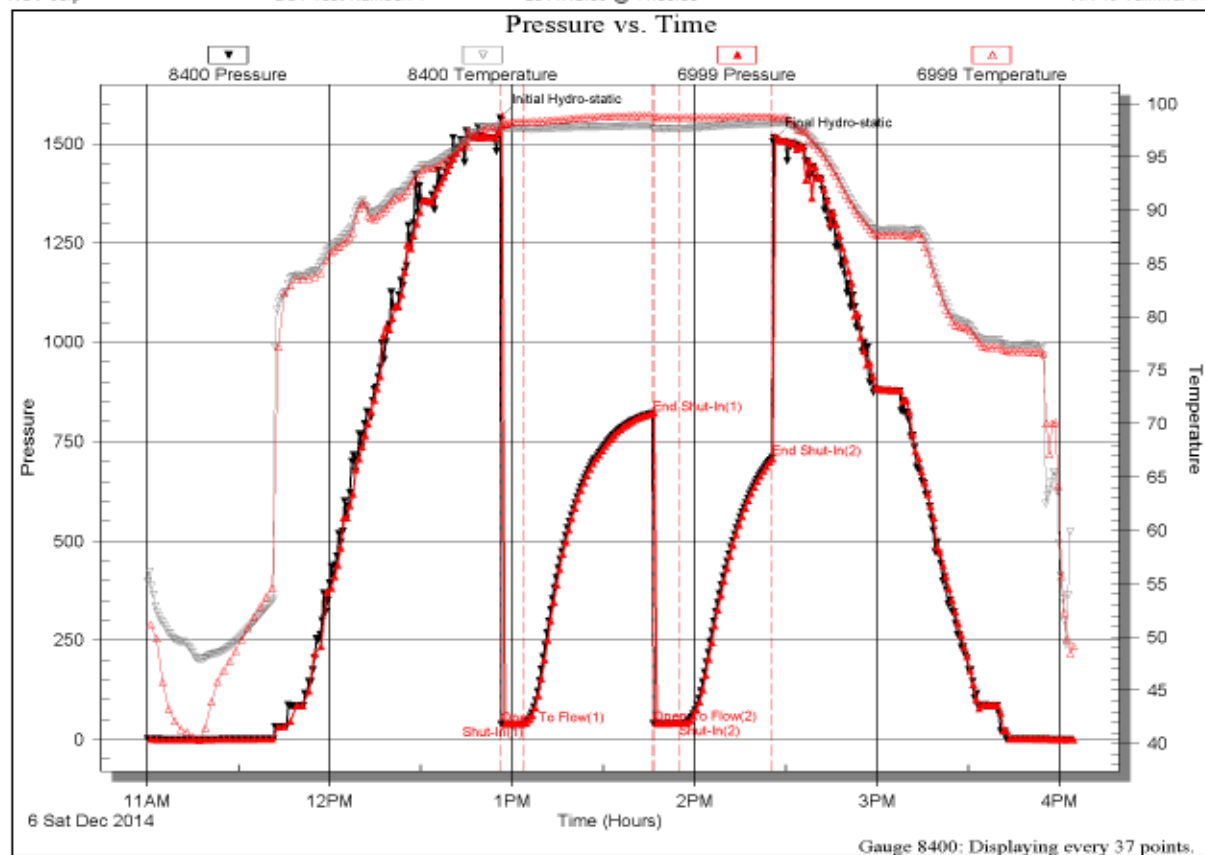
PRODUCTION : None

FORMATION TOPS

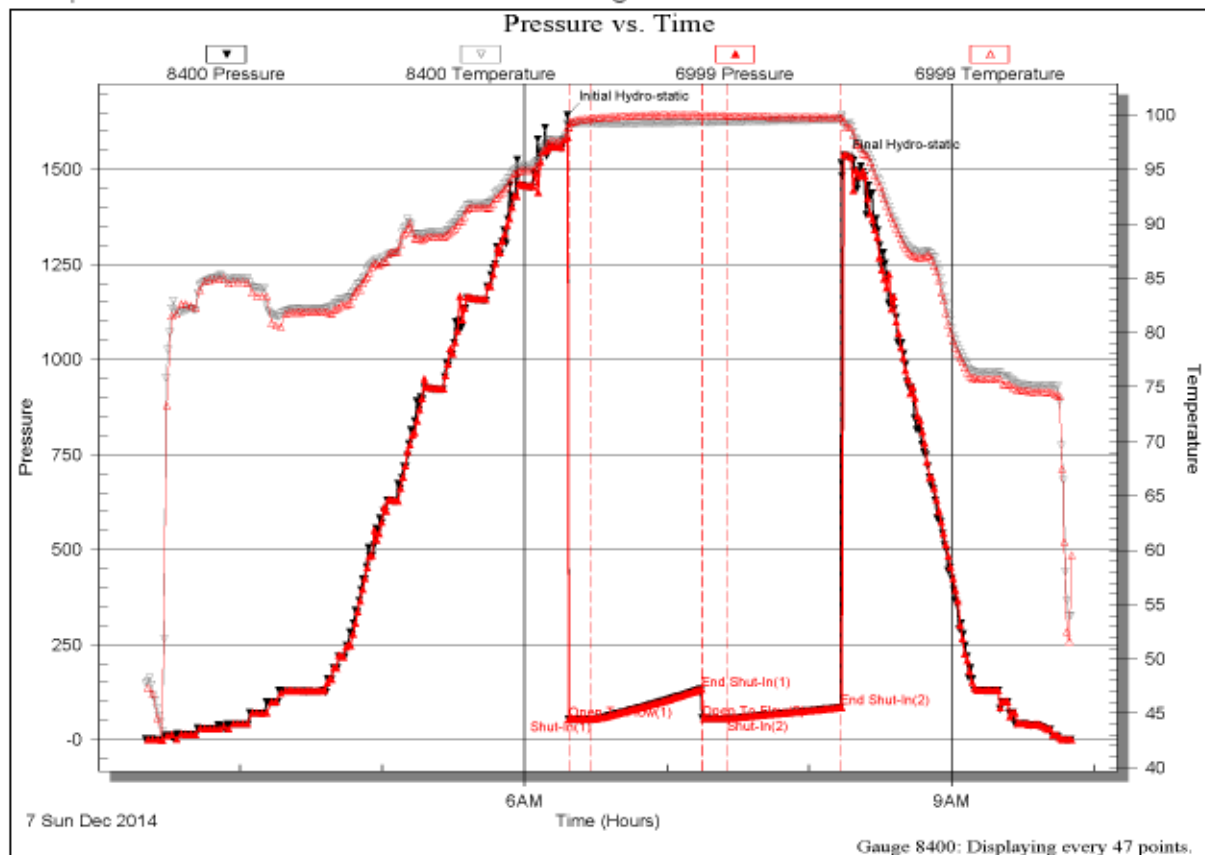
WELL NAME: AR-15 Yarmer #1

ELEV. K.B.= 1849

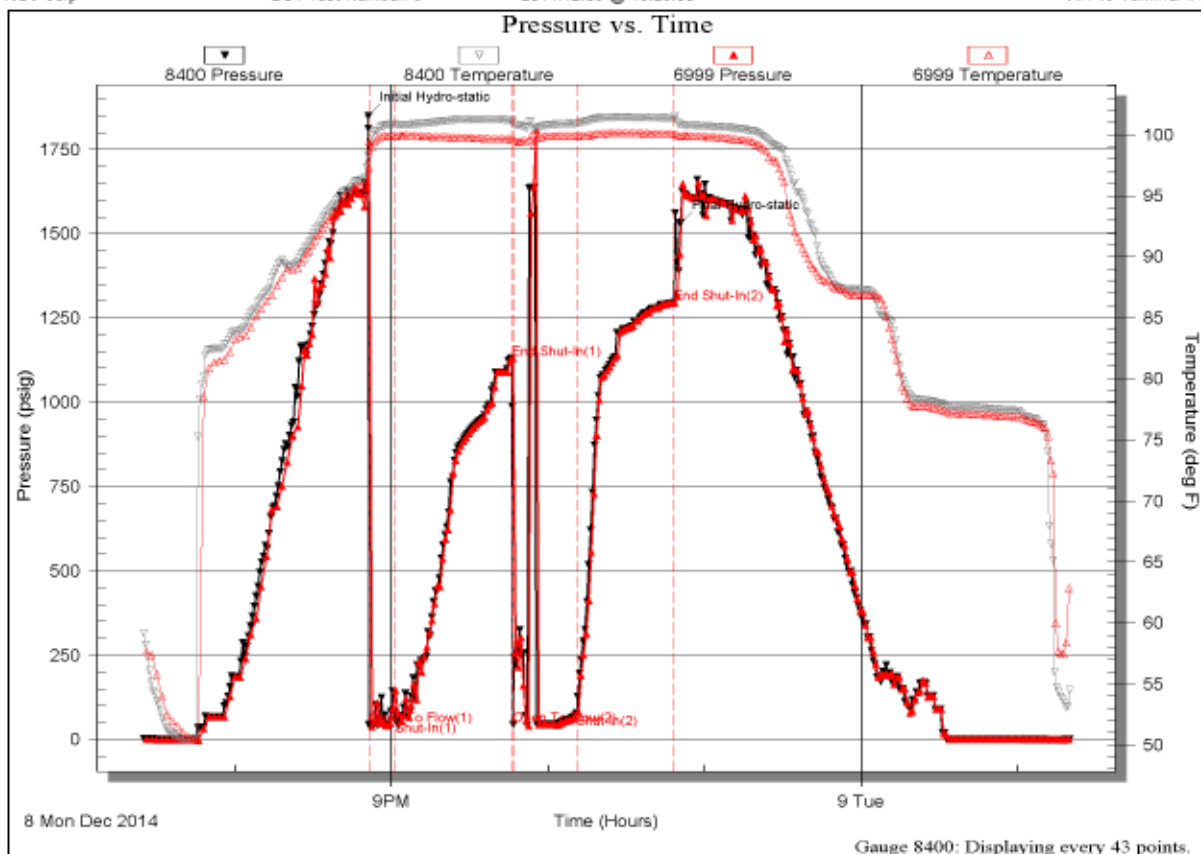
FORMATION TOPS	Sample	E- Log
Anhydrite	924	925
Heebner	3070	-1221
Lansing	3127	-1278
B/KC	3354	-1505
Arbuckle	3425	-1576
TD	3472	-1623



DST #1
 3186' to 3236'
 5-45-5-30
 IF: Weak built to 1
 Inch
 ISI: No blow
 FF: Weak surge,
 then died
 FSI: No blow
 Rec: 5' Mud
 HP: 1565-1505
 FP: 37-37 / 39-40
 SIP: 819-710



DST #2
 3274' to 3354'
 10-45-10-45
 IF: Weak built to 1
 inch
 ISI: No blow
 FF: Weak surge,
 did not build
 FSI: No blow
 Rec: 5' Oil spotted
 mud
 HP: 1643-1516
 FP: 52-52 / 55-53
 SIP: 132-83



DST #3
 3430' to 3440'
 10-45-10-45
 IF: Weak built to
 1-1/2 inch
 ISI: No blow
 FF: Weak surge,
 did not build,
 Flushed Tool,
 surge and died
 FSI: No blow
 Rec: 5' mud
 HP: 1849-1530
 FP: 43-55 / 43-77
 SIP: 1129-1294

COMMENTS

Based upon sample analysis and negative DST results it is recommended the AR-15 Yammer #1 be plugged and abandoned as a dry hole.

Respectfully Submitted

Kent R. Roberts
 Geologist

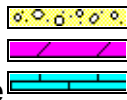
ROCK TYPES



Anhy

Cht

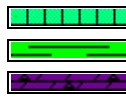
Black shale



Congl

Dolomite

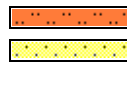
Limestone



Salt

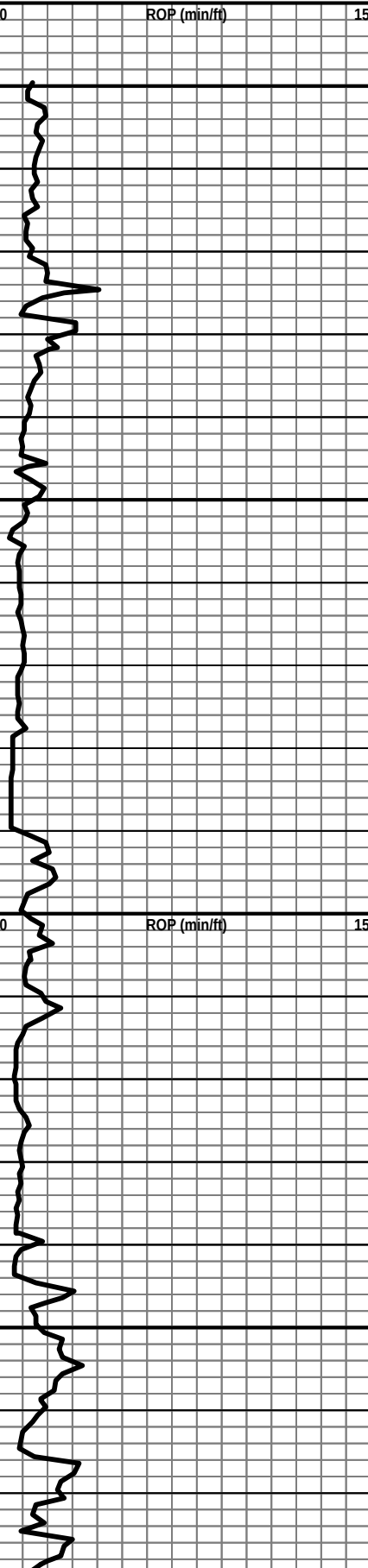
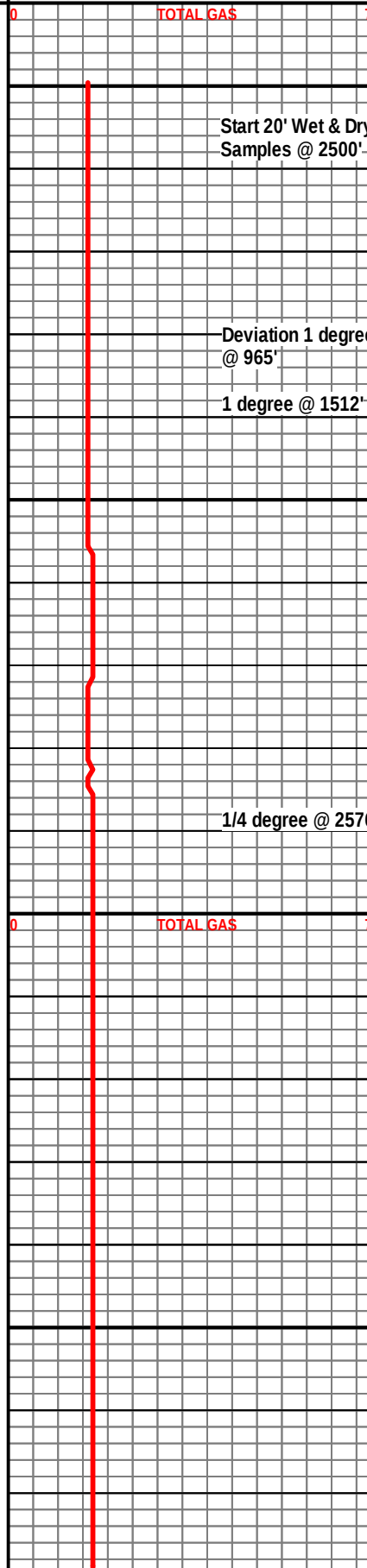
Shale

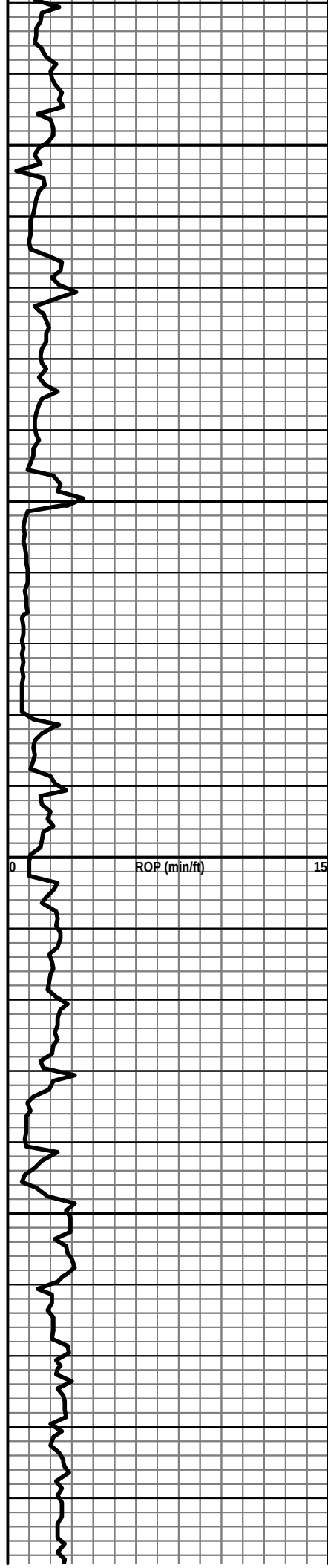
Cherty dol.



Siltstone

Sandstone

Curve Track 1		Depth	Lithology	Geological Descriptions	TOTAL GAS, C1-C5	
ROP (min/ft)					TOTAL GAS (Units)	
0 ROP (min/ft) 15 	2500 2550 2600 2650			0 TOTAL GAS 75 	Start 20' Wet & Dry Samples @ 2500' Deviation 1 degree @ 965' 1 degree @ 1512' 1/4 degree @ 2576'	



2700

2750

2800

2850

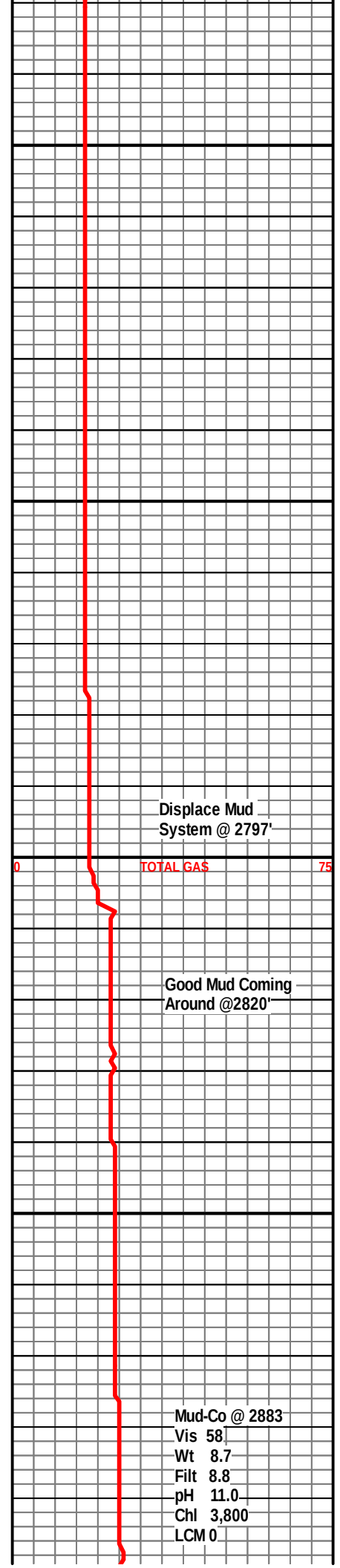
Sh, gry soft

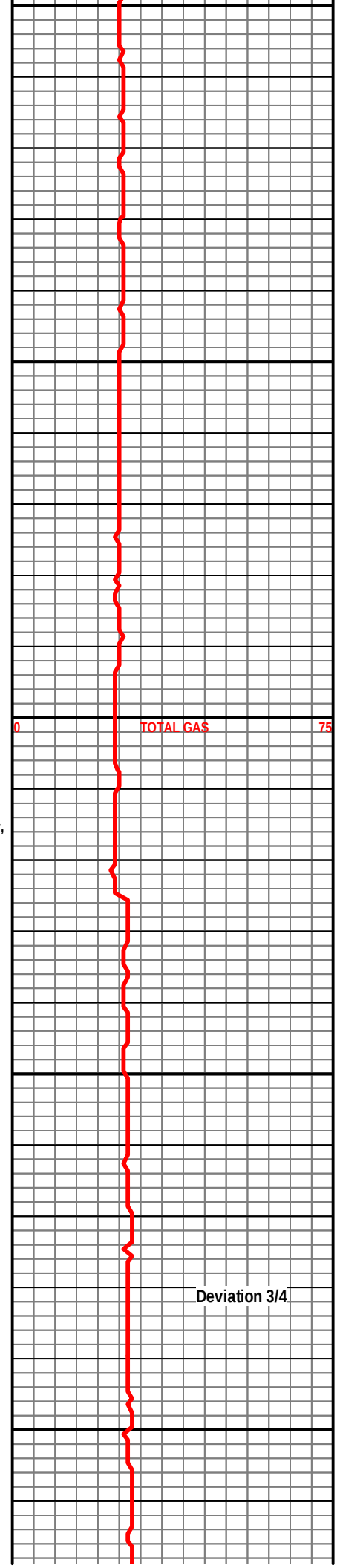
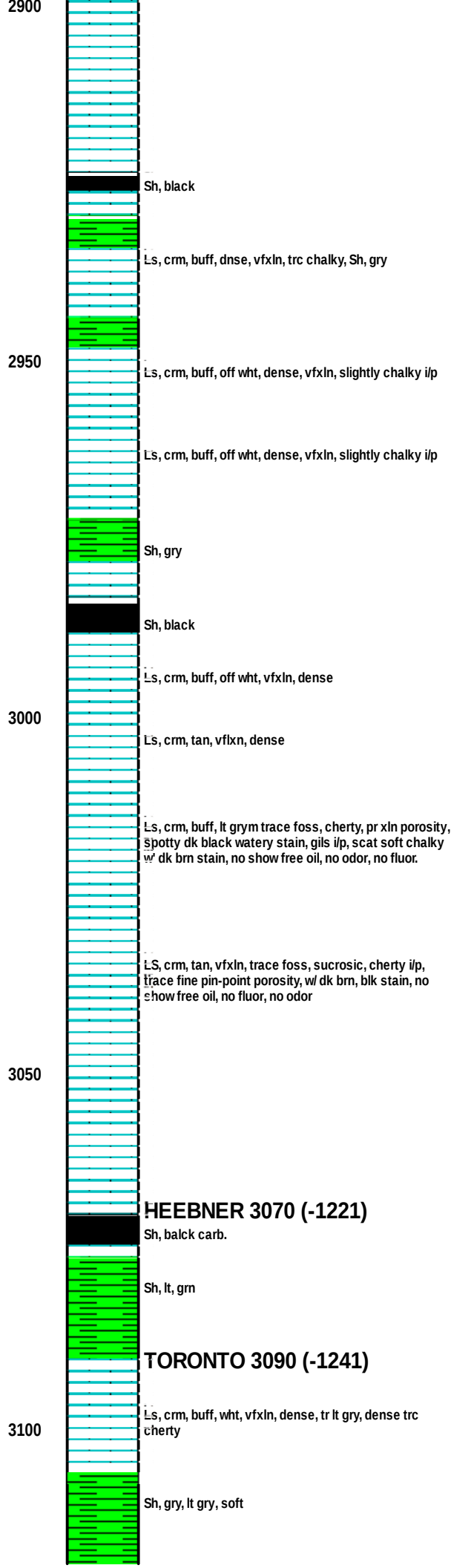
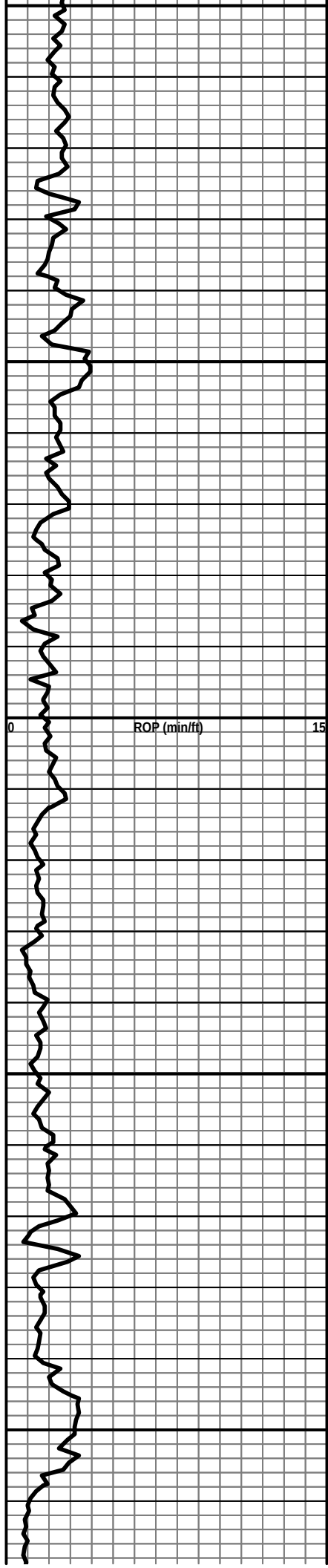
TOPEKA 2841 (-992)

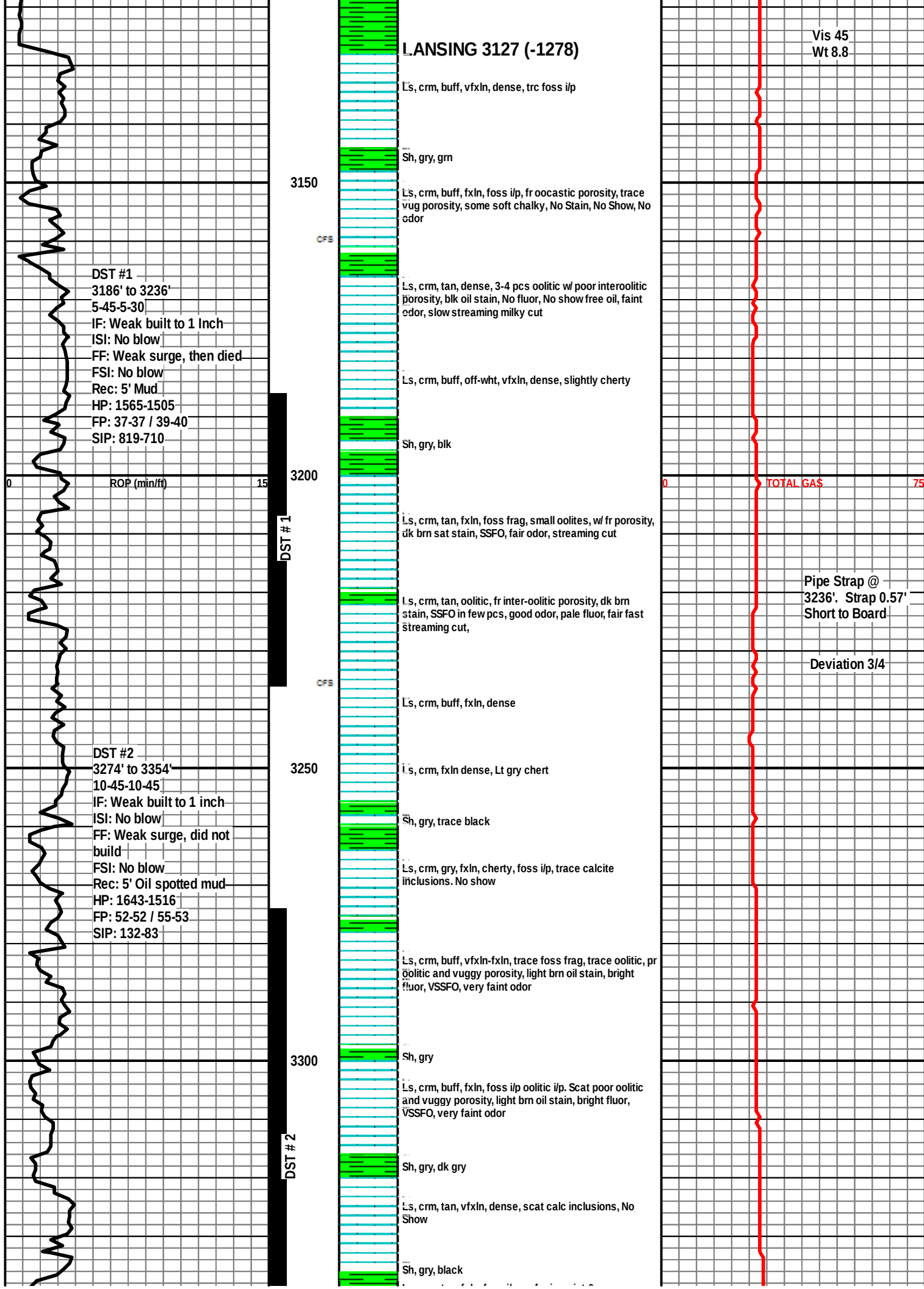
Ls, crm, buff, lt gry, trace foss i/p mostly soft chalky

i s, crm, buff, lt gry, trace foss i/p mostly soft chalky

Ls, crm, buff, lt gry, trace foss i/p mostly soft chalky







3350

Ls, crm, tan, fxln, foss i/p, pr-tr pin-point & vuggy porosity. Even brn stain, SSFO, bright fluor, fair odor, 1 pc w/ good sucrosic, xln porosity, sat brn stn w/ SFO, fast flash cut

B/KC 3354 (-1505)

Sh, gry, gm, brick red

Ls, crm, off-wht, fxln, dense, trc sandy i/p, mostly vari-colored sh

Sh, vari-colored

Ls, crm, off-white, trc sandy i/p

Trace of tan-brn, fine-grain friable Sd clusters, ? oil stain most is clear, wht med-grain calcareous

WASH RED

Sh, red, soft, gumbo, w/ Sd, clr f-m grain, Cht, wht, off-wht, foss, oolitic

Sh, red, soft, gumbo, w/ Sd, clr f-m grain, Cht, wht, off-wht, foss, oolitic

ARBUCKLE 3425 (-1576)

Dol, crm, buff, fxln, dense w/ Dol tan, lt gry, f-mxln, sucrosic, pr-fr xln porosity, even brn dk brn stain, trc saturated, fair SFO few pcs good SFO on break, Trc white chert, pr vug porosity, brn stain, bright fluor, faint to flashy fair odor

Dol, crm, buff, fxln, dense

Dol, crm, buff, tan, f-mxln, cherty i/p, trace pr vuggy porosity, barren, Dull mineral fluor

Dol, crm, tan, buff, fxln, pr xln porosity, abn soft wht chalk and wht foss- oolitic chert, slightly weathered. No Show

DST #3
3430' to 3440'
10-45-10-45
IF: Weak built to 1-1/2 inch
ISI: No blow
FF: Weak surge, did not build, Flushed Tool, surge and died
FSI: No blow
Rec: 5' mud
HP: 1849-1530
FP: 43-55 / 43-77
SIP: 1129-1294

DST#3

3400

CFS

CFS

CFS

3450

CFS

CFS

Background increase after DST

0

TOTAL GAS

75

RTD 3472
No Log
Gave order PTA @
10:30 AM on
12/8/2014