



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:
 Yes No

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: _____

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 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				

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 <i>(Amount and Kind of Material Used)</i>	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 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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Summary of Changes

Lease Name and Number: K&K FARMS 1-25

API/Permit #: 15-179-21390-00-00

Doc ID: 1315407

Correction Number: 3

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	08/24/2016	08/25/2016
Completion Or Recompletion Date	7/22/2016	1/28/2015
Save Link	../kcc/detail/operatorEditDetail.cfm?docID=1315230	../kcc/detail/operatorEditDetail.cfm?docID=1315407

Confidentiality Requested:

Yes No

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:

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- CM (Coal Bed Methane)
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NE NW SE SW

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(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 #: _____

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Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1251953
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

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Location of fluid disposal if hauled offsite: _____

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

County: _____ Permit #: _____

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- 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
--	---

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	Samuel Gary Jr. & Associates, Inc.
Well Name	K&K FARMS 1-25
Doc ID	1251953

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4006-4010		4006-4010

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 910

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-19-15	25	10	30	Sheridan	KS		12:30 AM

Location Grinnell 2 1/2 N E into

Lease	Well No.	Owner	
K+K Farms	1-25	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor			
Discovery #4			
Type Job			
Surface			
Hole Size	T.D.	Charge To	
12 1/4	344'	Sam Gary Jr.	
Csg.	Depth	Street	
8 5/8	344'		
Tbg. Size	Depth	City	
		State	
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered 225 220 3% cc 2% Gel	
Cement Left in Csg.	Shoe Joint	com	
20'			
Meas Line	Displace		
	20 1/2 bbl		

EQUIPMENT

Pumptrk	No.	Cementer	Common
20		Helper David	225
Bulktrk	No.	Driver	Poz. Mix
19		Doug	4
Bulktrk	No.	Driver	Calcium
Pu		Brett	7

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 112#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 236
	Mileage

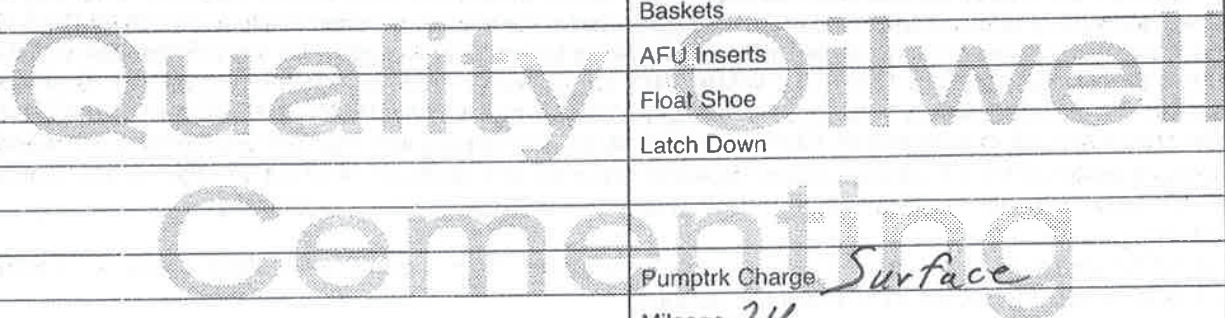
Cement Circulated!

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down
Pumptrk Charge
Surface
Mileage
24

Tax
Discount
Total Charge

X Signature Mike [Signature]



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1083

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-28-2015	25	10	30	SHERIDAN	KANSAS		8:30 PM
Location GRINNELL KS. 2N 1/4 E INTD							

Lease	Well No.	Owner	
K-K FARMS	1-25	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	Rig #	Charge To	
Discovery DRG	4	SAMUEL GARY JR. ASSOCIATES INC	
Type Job	(Ciac - cement)	Street	
PRODUCTION STRING			
Hole Size	T.D.	City	
7 7/8	4550	State	
Csg.	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
5 1/2 New	45 45	Cement Amount Ordered 480 sx 8% QMDG 3% CC 3% GEL	
Tbg. Size	Depth	180 sx Q-PRO-C 10% SALT, 5% GUMMITE 1/4" FLO-SEAL	
#CSG		Common 180	
Tool	Shoe Joint	POZ. MIX QMDG 8% 480	
LATCH Down Plug Assy @ 4501	43 1/4	Gel. 5	
Cement Left in Csg. 43.4	Displace 107.14 BBL	Calcium 5	
Meas Line		Hulls	

EQUIPMENT

Pumptrk	No.	Cementor	GLINN G.
18		Helper	CODY B.
Bulktrk	No.	Driver	CHAD. M.
19		Driver	
Bulktrk	No.	Driver	TYLOR O.
15		Driver	

JOB SERVICES & REMARKS

Remarks: 4:15 pm

Rat Hole

Mouse Hole TURBO Cent, 1, 3, 5, 7, 9, 11, 13, 15

Centralizers 49, 66, 79, 89, 97

Baskets 50, 67, 80, 90, 98

D/V or Port Collar

Set @ 4545 15.50" csg.

DROP AFU BALL, LOAD Csg. + Received CIRCULATION, ROTATE Csg. + LOST CIRCULATION, MIXED MORE MUD w/ EXTRA LCM. + Received CIRCULATION Pump 500 GAL - MUD - CLR - 48, Plug Rot w/ 30 sx mouse w/ 15 sx. Mixed 435 sx QMDG & 180sx Q-PRO-C. w/ ROTATING. Clear-Line, Release LATCH DOWN Plug & Displaced A TOTAL OF 99/BBL + PRESSURED TO 4,000, STOP PUMPING + Release Pressure, (AFU - HELD).

* Cement DID CIRCULATE TO SURFACE. PUT APPROX 30 SX IN PIT.

Salt	16
Flowseal	285#
Kol-Seal	900#
Mud CLR 48	500 Gal
CFL-117 or CD110 CAF 38	
20 BBL KCL	
Handling	695
Mileage	

FLOAT EQUIPMENT

Guide Shoe	Reg. Centralizer	X 5
Centralizer	TURBO	X 8
Baskets	Blue	X 5
AFU Inserts		
Float Shoe	X	1
Latch Down Plug Assy		X 1
ROTATING HEAD		
Pumptrk Charge		prod string
Mileage	24	

X Signature *[Signature]*

Tax	
Discount	
Total Charge	



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61142

DST#: 1

Test Start: 2015.01.24 @ 09:00:20

GENERAL INFORMATION:

Formation: **Tor, LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:26:45

Time Test Ended: 17:28:44

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

Interval: 3938.00 ft (KB) To 4011.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4011.00 ft (KB) (TVD)

2897.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018 Inside

Press @ Run Depth: 407.97 psig @ 3943.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.24 End Date: 2015.01.24

Last Calib.: 2015.01.24

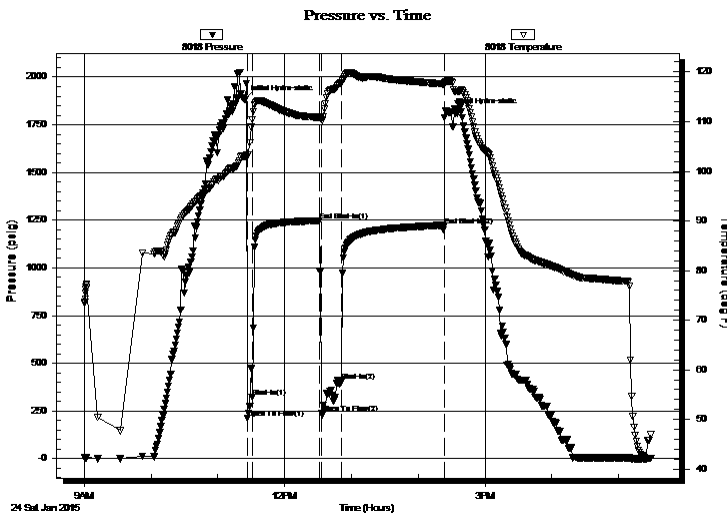
Start Time: 09:00:20 End Time: 17:28:44

Time On Btm: 2015.01.24 @ 11:23:45

Time Off Btm: 2015.01.24 @ 14:27:44

TEST COMMENT: 5-IFP-strg bl in 2 min
60-ISIP-no bl , 1st. 10 min ,then w k bl built to 3"bl
20-FFP-strg bl in 2min
90-FSIP-2" bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.09	103.01	Initial Hydro-static
3	213.79	103.21	Open To Flow (1)
7	322.91	110.38	Shut-In(1)
68	1246.61	110.92	End Shut-In(1)
69	239.55	110.32	Open To Flow (2)
88	407.97	117.89	Shut-In(2)
180	1220.73	117.56	End Shut-In(2)
184	1815.30	118.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	MGO 20%G15%M65%O	4.50
560.00	CO	7.86
0.00	340'GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61142

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Tester: Ray Schwager

Unit No: 70

Interval: 3938.00 ft (KB) To 4011.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4011.00 ft (KB) (TVD)

2897.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8700

Outside

Press @RunDepth: psig @ 3943.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.24

End Date:

2015.01.24

Last Calib.:

2015.01.24

Start Time: 09:00:09

End Time:

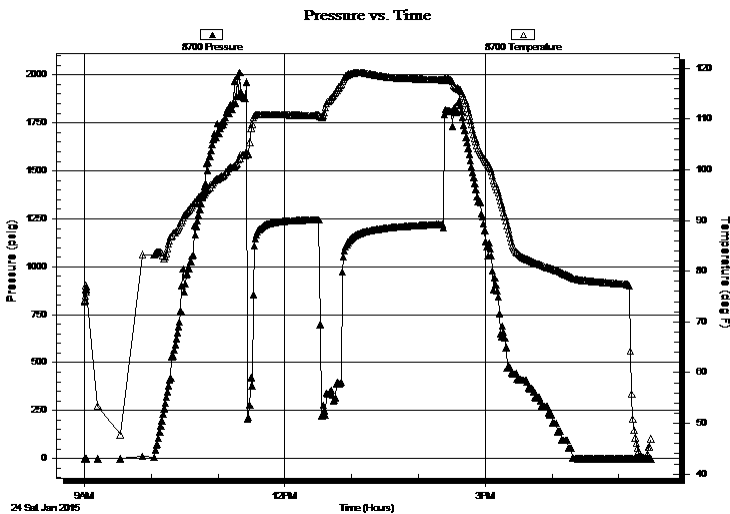
17:28:33

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP-strg bl in 2 min
60-ISIP-no bl , 1st. 10 min ,then w k bl built to 3"bl
20-FFP-strg bl in 2min
90-FSIP-2" bl bk

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
340.00	MGO 20%G15%M65%O	4.50
560.00	CO	7.86
0.00	340'GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61142

DST#: 1

Test Start: 2015.01.24 @ 09:00:20

GENERAL INFORMATION:

Formation: **Tor, LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:26:45

Time Test Ended: 17:28:44

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

Interval: 3938.00 ft (KB) To 4011.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4011.00 ft (KB) (TVD)

2897.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374 Fluid

Press @ Run Depth: psig @ 3905.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.24

End Date:

2015.01.24

Last Calib.:

1899.12.30

Start Time: 09:00:29

End Time:

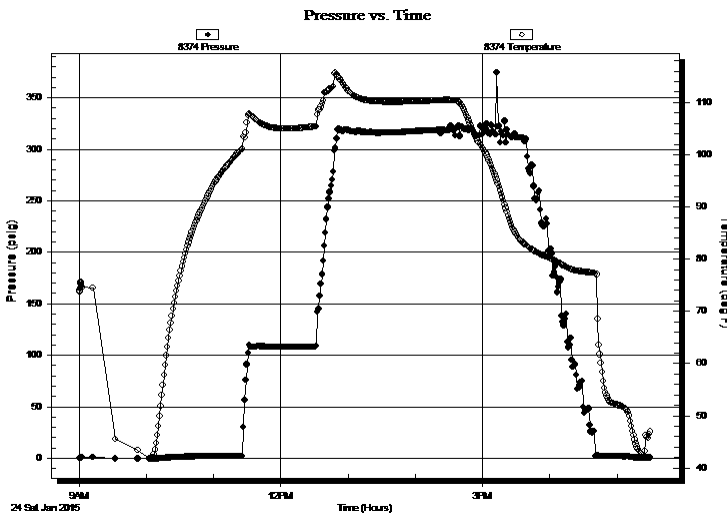
17:29:53

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP-strg bl in 2 min
60-ISIP-no bl, 1st. 10 min, then w k bl built to 3"bl
20-FFP-strg bl in 2min
90-FSIP-2" bl bk

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
340.00	MGO 20%G15%M65%O	4.50
560.00	CO	7.86
0.00	340'GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61142

DST#: 1

Test Start: 2015.01.24 @ 09:00:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
340.00	MGO 20%G15%M65%O	4.496
560.00	CO	7.855
0.00	340'GIP	0.000

Total Length: 900.00 ft Total Volume: 12.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

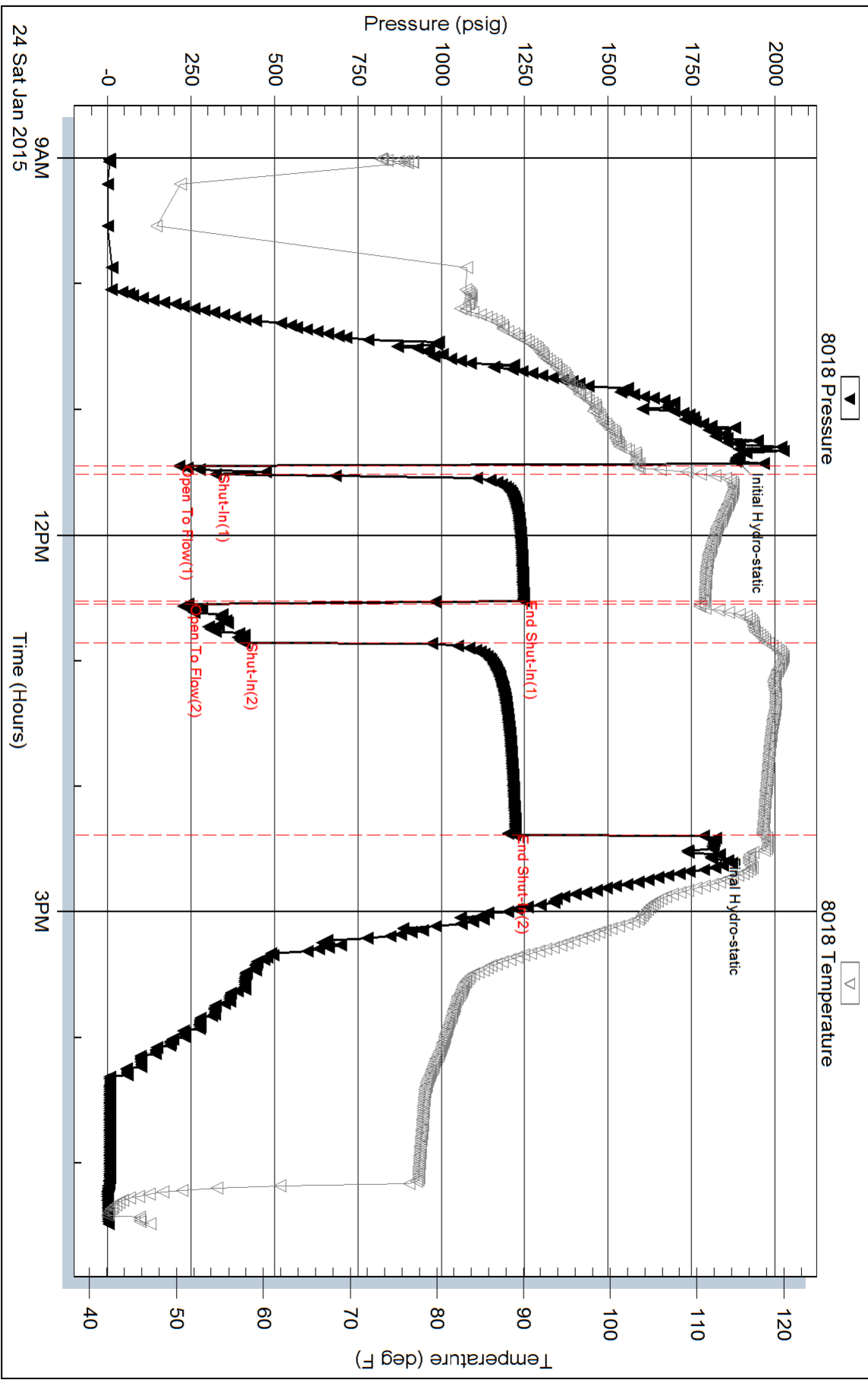
Serial #:

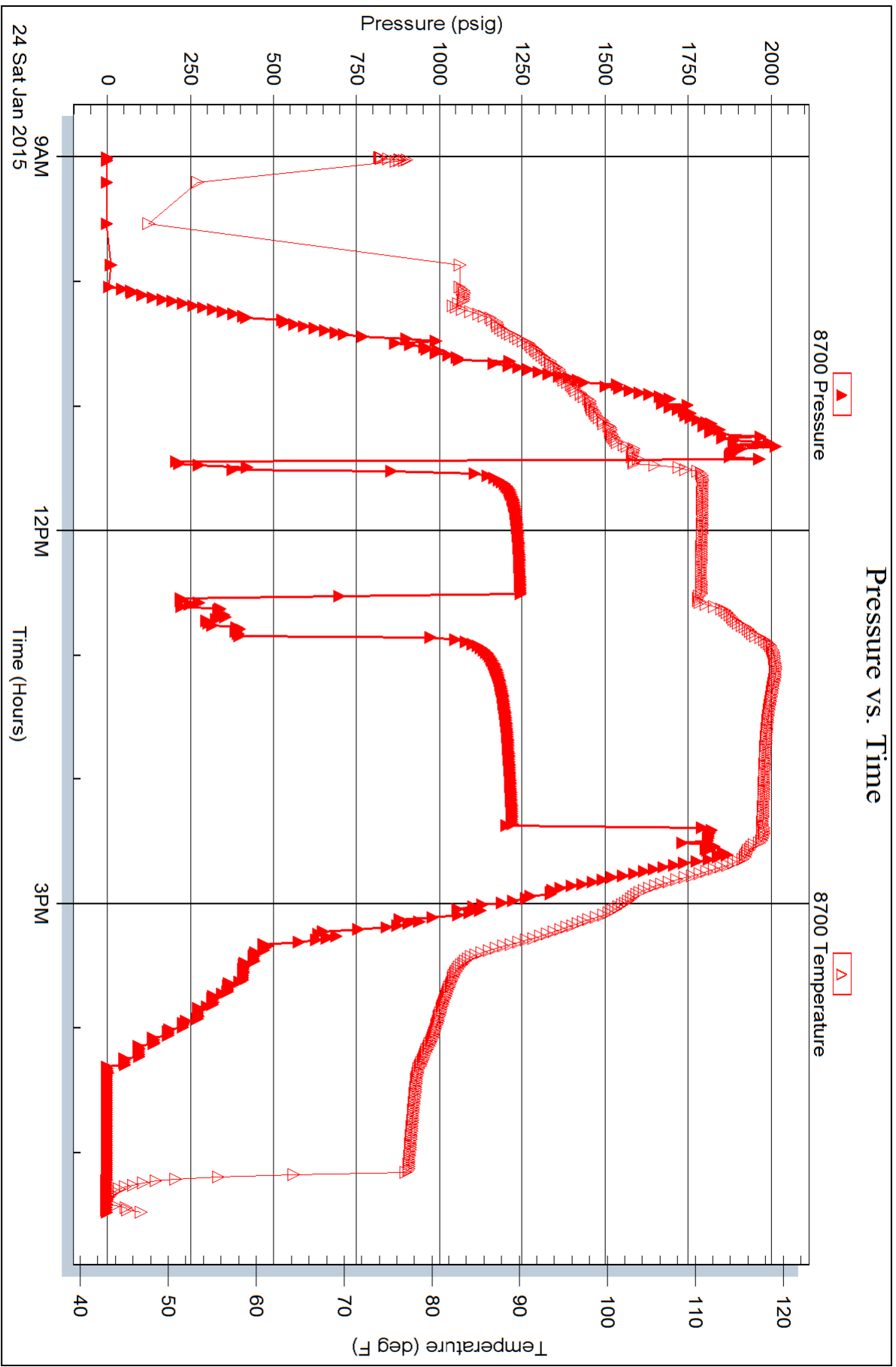
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





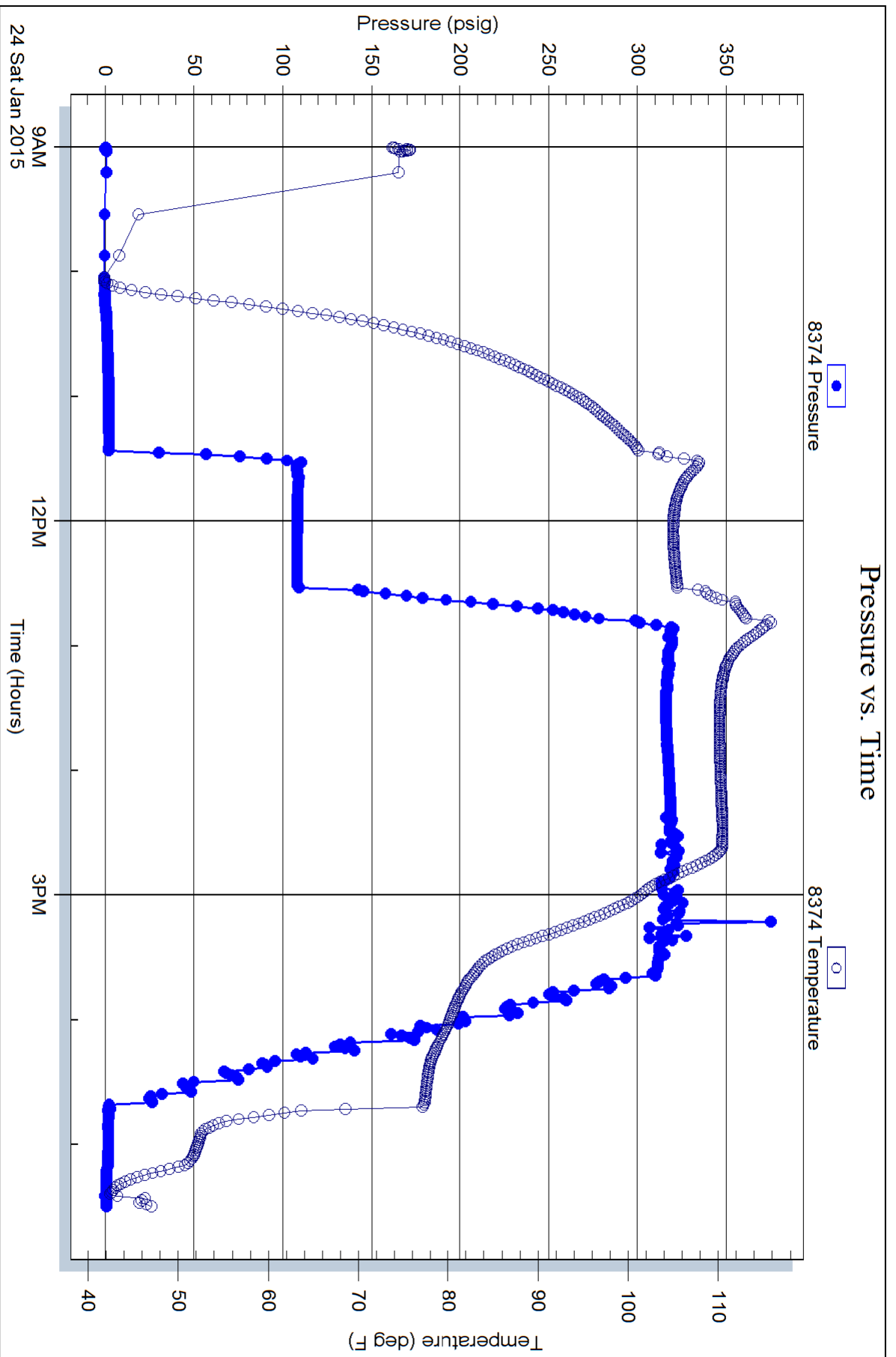
Serial #: 8374

Fluid

Samuel Gary Jr & Associates

K&K Farms 1-25

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61143

DST#: 2

Test Start: 2015.01.25 @ 02:35:07

GENERAL INFORMATION:

Formation: **LKC F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:39:02

Time Test Ended: 09:53:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 4030.00 ft (KB) To 4064.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4064.00 ft (KB) (TVD)

2897.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 93.62 psig @ 4035.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.25

End Date:

2015.01.25

Last Calib.:

2015.01.25

Start Time: 02:35:07

End Time:

09:53:01

Time On Btm:

2015.01.25 @ 04:36:32

Time Off Btm:

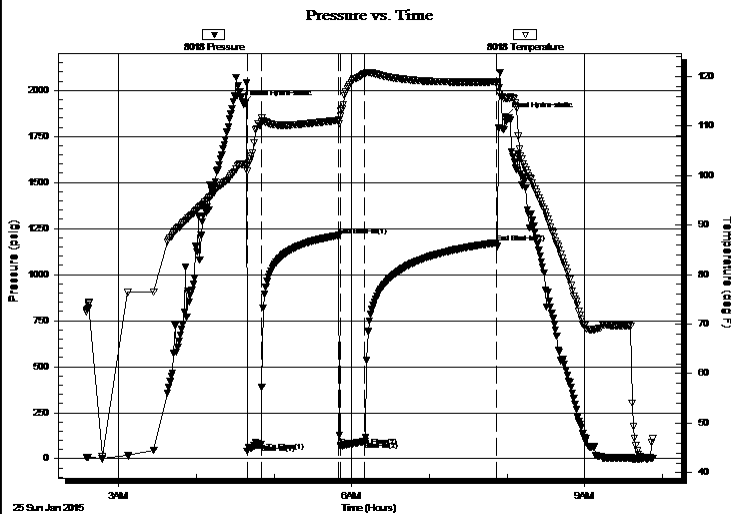
2015.01.25 @ 07:58:31

TEST COMMENT: 10-IFP-w k to a fr bl 1/2"to 4"bl

60-ISIP-no bl

20-FFP-w k bl thru-out 1/4"to 3"bl

90-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1924.98	102.22	Initial Hydro-static
3	39.52	100.86	Open To Flow (1)
14	77.59	110.78	Shut-In(1)
74	1212.29	111.14	End Shut-In(1)
75	66.87	111.96	Open To Flow (2)
94	93.62	120.53	Shut-In(2)
195	1172.20	118.90	End Shut-In(2)
202	1855.60	115.54	Final Hydro-static

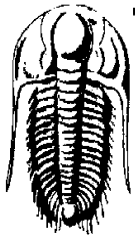
Recovery

Length (ft)	Description	Volume (bbl)
60.00	Water	0.57
60.00	MW 20%M80%W w/show of oil	0.84
20.00	SOCWM 2%O25%W73%m	0.28
2.00	CO	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61143

DST#: 2

Test Start: 2015.01.25 @ 02:35:07

GENERAL INFORMATION:

Formation: **LKC F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:39:02

Time Test Ended: 09:53:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 4030.00 ft (KB) To 4064.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4064.00 ft (KB) (TVD)

2897.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8700 Outside

Press @ Run Depth: psig @ 4035.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.25

End Date:

2015.01.25

Last Calib.:

2015.01.25

Start Time: 02:35:17

End Time:

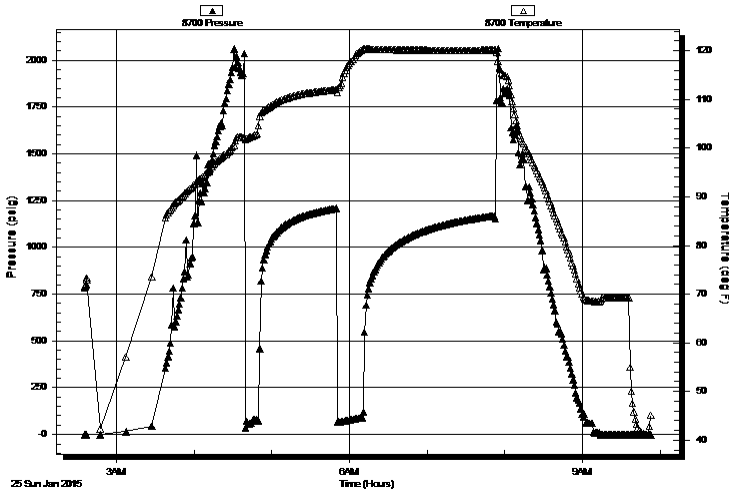
09:53:11

Time On Btm:

Time Off Btm:

TEST COMMENT: 10-IFP-w k to a fr bl 1/2" to 4" bl
60-ISIP-no bl
20-FFP-w k bl thru-out 1/4" to 3" bl
90-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

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

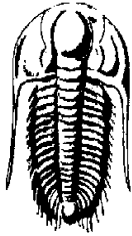
Recovery

Length (ft)	Description	Volume (bbl)
60.00	Water	0.57
60.00	MW 20%M80%W w/show of oil	0.84
20.00	SOCWM 2%O25%W73%m	0.28
2.00	CO	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61143 **DST#: 2**
Test Start: 2015.01.25 @ 02:35:07

GENERAL INFORMATION:

Formation: LKC F-G
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:39:02
Time Test Ended: 09:53:01
Interval: 4030.00 ft (KB) To 4064.00 ft (KB) (TVD)
Total Depth: 4064.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches **Hole Condition:** Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 70
Reference Elevations: 2905.00 ft (KB)
 2897.00 ft (CF)
KB to GR/CF: 8.00 ft

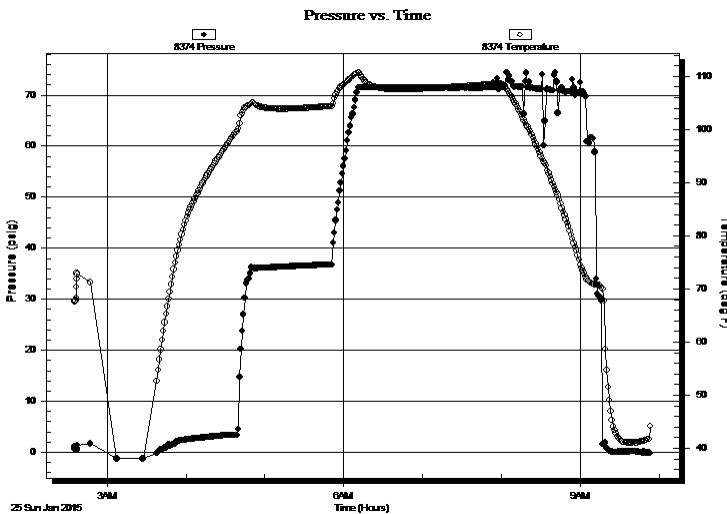
Serial #: 8374

Fluid

Press @ RunDepth: psig @ 3997.00 ft (KB) **Capacity:** 8000.00 psig
Start Date: 2015.01.25 **End Date:** 2015.01.25 **Last Calib.:** 2015.01.25
Start Time: 02:35:30 **End Time:** 09:53:24 **Time On Btm:**
Time Off Btm:

TEST COMMENT: 10-IFP-w k to a fr bl 1/2"to 4"bl
 60-ISIP-no bl
 20-FFP-w k bl thru-out 1/4"to 3"bl
 90-FSIP-no bl

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Water	0.57
60.00	MW 20%M80%W w/show of oil	0.84
20.00	SOCWM 2%O25%W73%m	0.28
2.00	CO	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61143

DST#: 2

Test Start: 2015.01.25 @ 02:35:07

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 7.59 in³
Resistivity: ohm.m
Salinity: 700.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 65000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Water	0.568
60.00	MW 20%M80%W w/show of oil	0.842
20.00	SOCWM 2%O25%W73%m	0.281
2.00	CO	0.028

Total Length: 142.00 ft Total Volume: 1.719 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

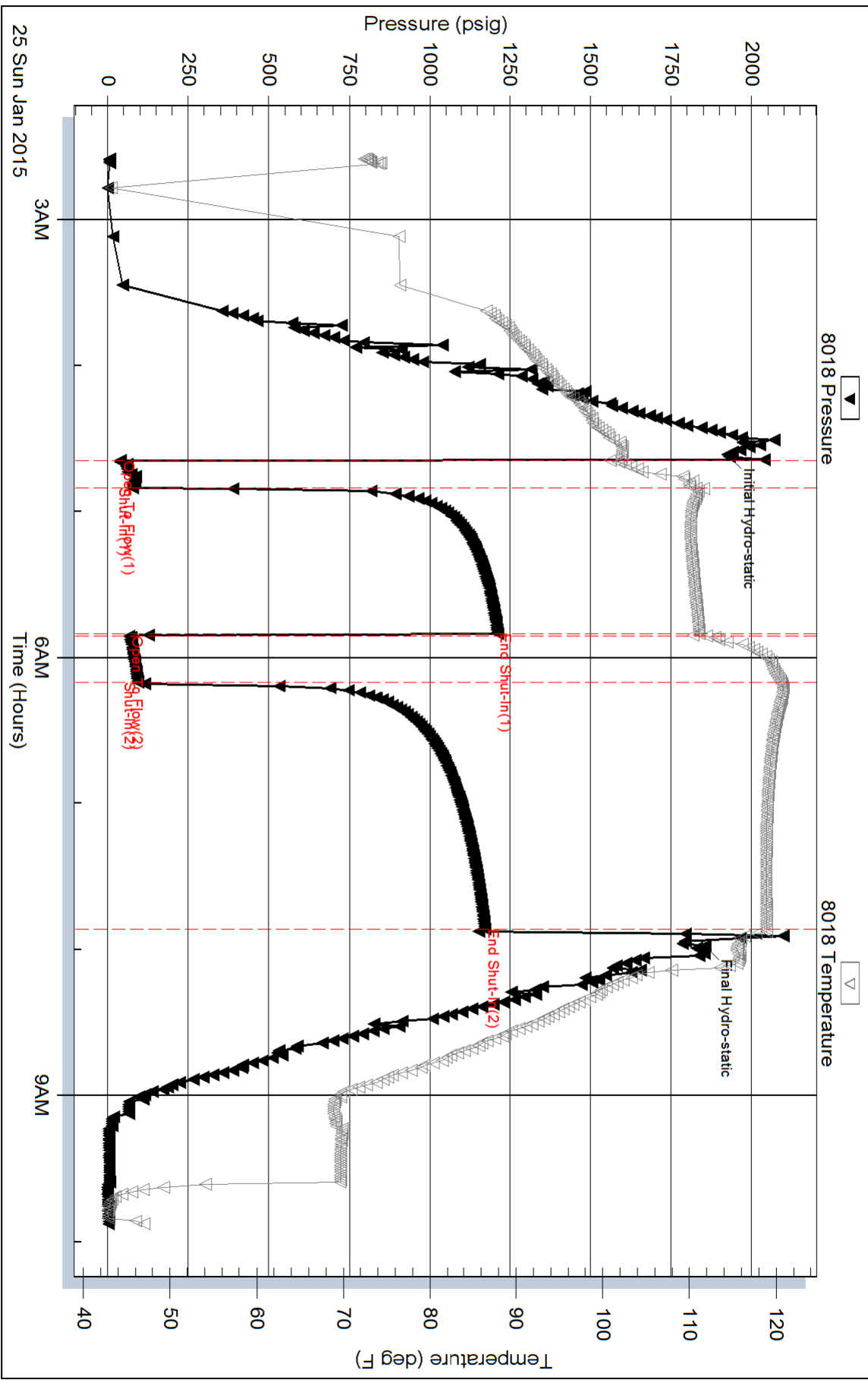
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .17 @ 50F

Pressure vs. Time

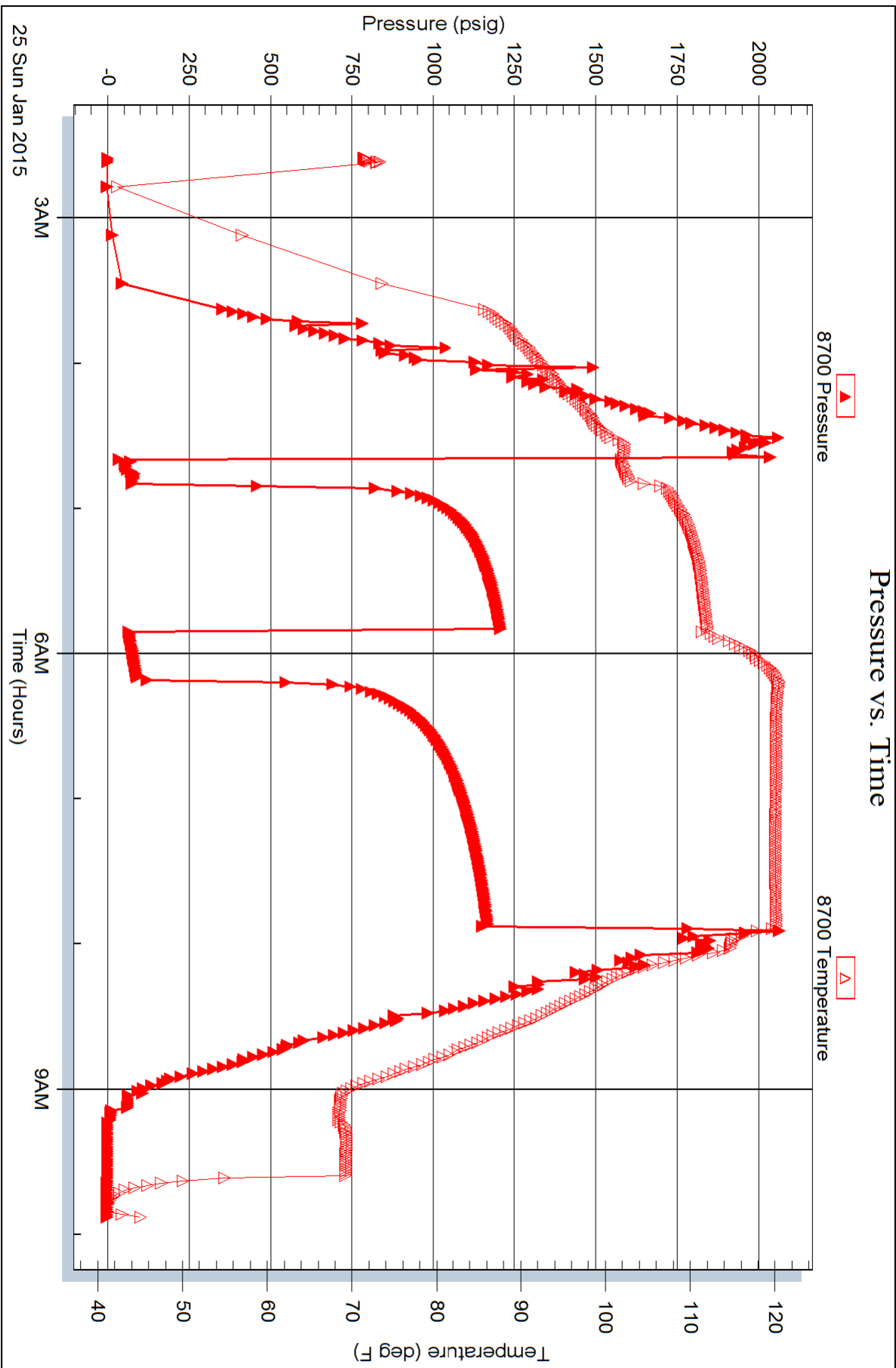


Serial #: 8700

Outside Samuel Gary Jr & Associates

K&K Farms 1-25

DST Test Number: 2



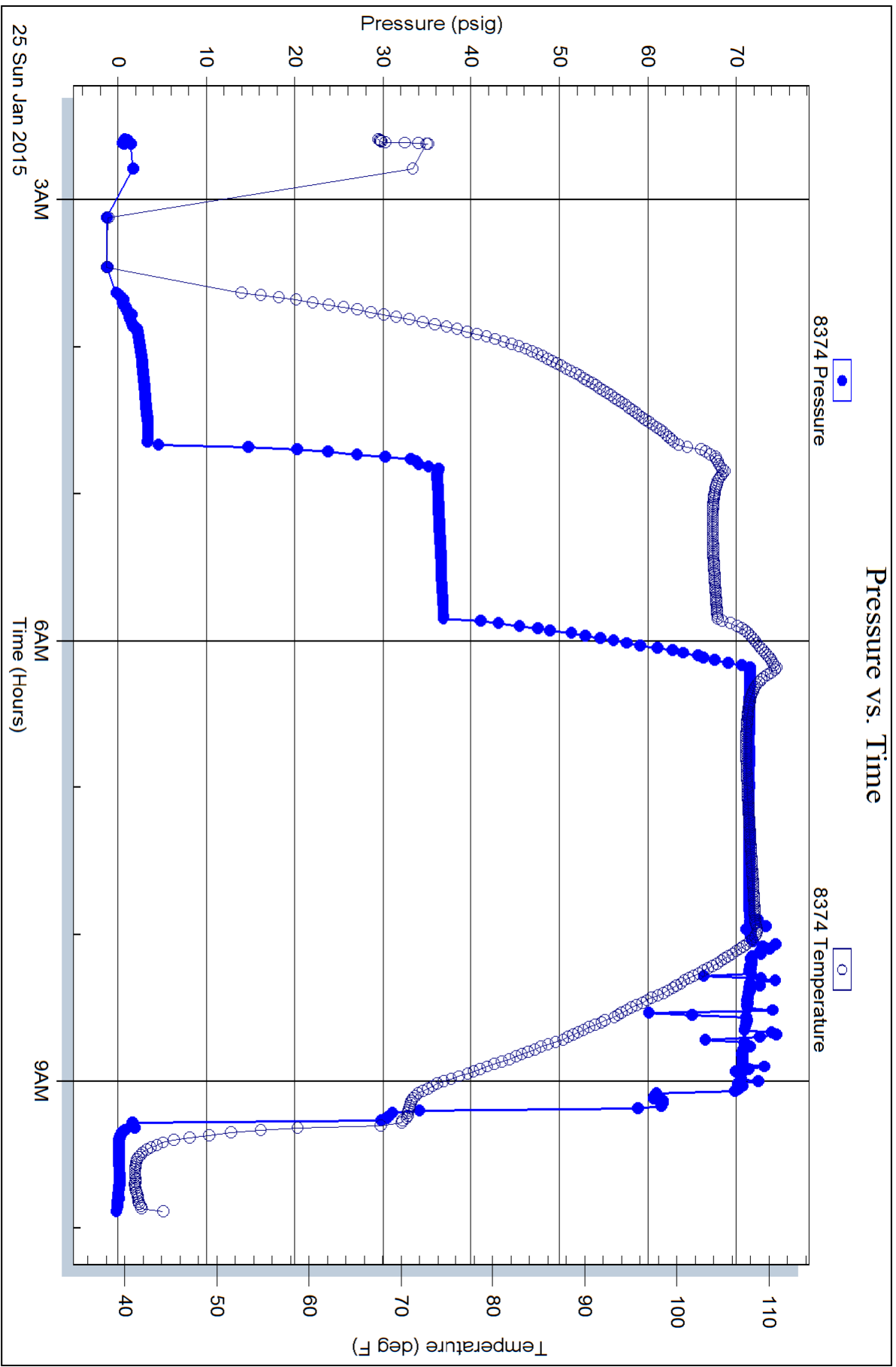
Serial #: 8374

Fluid

Samuel Gary Jr & Associates

K&K Farms 1-25

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61143

Printed: 2015.01.25 @ 13:49:53



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61144

DST#: 3

Test Start: 2015.01.27 @ 15:51:02

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:31:57

Time Test Ended: 22:02:26

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 4157.00 ft (KB) To 4179.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4552.00 ft (KB) (TVD)

2897.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 31.74 psig @ 4162.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.27 End Date: 2015.01.27

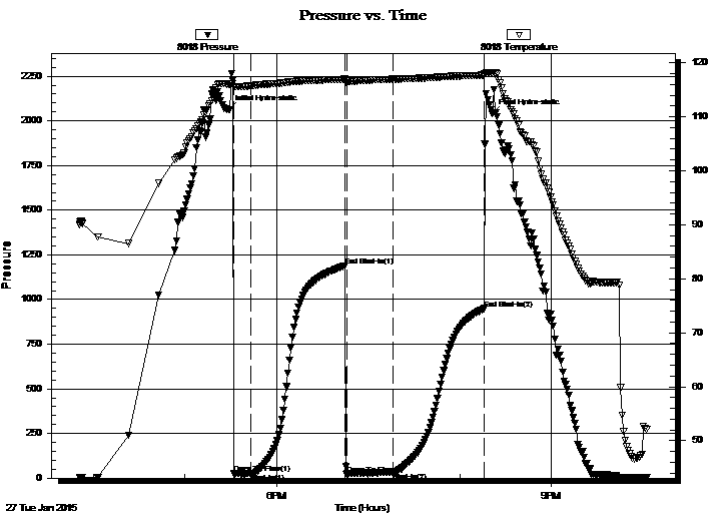
Last Calib.: 2015.01.27

Start Time: 15:51:02 End Time: 22:02:26

Time On Btm: 2015.01.27 @ 17:28:57

Time Off Btm: 2015.01.27 @ 20:21:26

TEST COMMENT: 10-IFP-w k bl thru-out surface to 3/4"bl
60-ISIP-no bl
30-FFP-w k to a gd bl 1/8"to 7"bl
60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.79	116.05	Initial Hydro-static
3	24.88	115.63	Open To Flow (1)
14	25.29	115.74	Shut-In(1)
76	1189.31	116.96	End Shut-In(1)
77	22.48	116.64	Open To Flow (2)
107	31.74	116.95	Shut-In(2)
167	949.20	117.70	End Shut-In(2)
173	2039.31	118.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	O&GCM 5%G15%O80%M	0.12
0.00	220 'GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61144 **DST#: 3**
Test Start: 2015.01.27 @ 15:51:02

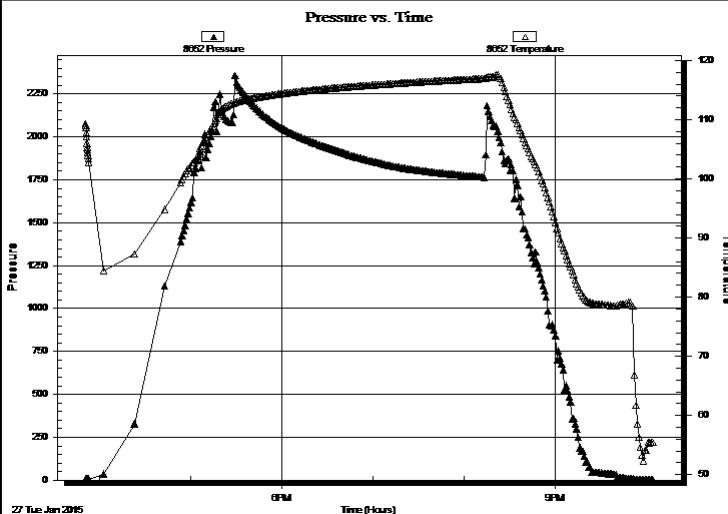
GENERAL INFORMATION:

Formation: **LKC " J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 17:31:57
 Tester: Ray Schwager
 Time Test Ended: 22:02:26
 Unit No: 70
Interval: 4157.00 ft (KB) To 4179.00 ft (KB) (TVD)
 Reference Elevations: 2905.00 ft (KB)
 Total Depth: 4552.00 ft (KB) (TVD)
 2897.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8652 Below (Straddle)

Press@RunDepth: psig @ 4206.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.27 End Date: 2015.01.27 Last Calib.: 2015.01.27
 Start Time: 15:50:44 End Time: 22:04:08 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10-IFP-w k bl thru-out surface to 3/4"bl
 60-ISIP-no bl
 30-FFP-w k to a gd bl 1/8"to 7"bl
 60-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	O&GCM 5%G15%O80%M	0.12
0.00	220 'GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61144 **DST#: 3**

Test Start: 2015.01.27 @ 15:51:02

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:31:57

Time Test Ended: 22:02:26

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 4157.00 ft (KB) To 4179.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4552.00 ft (KB) (TVD)

2897.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374

Fluid

Press@RunDepth: psig @ 4124.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.27

End Date:

2015.01.27

Last Calib.:

2015.01.27

Start Time: 15:50:25

End Time:

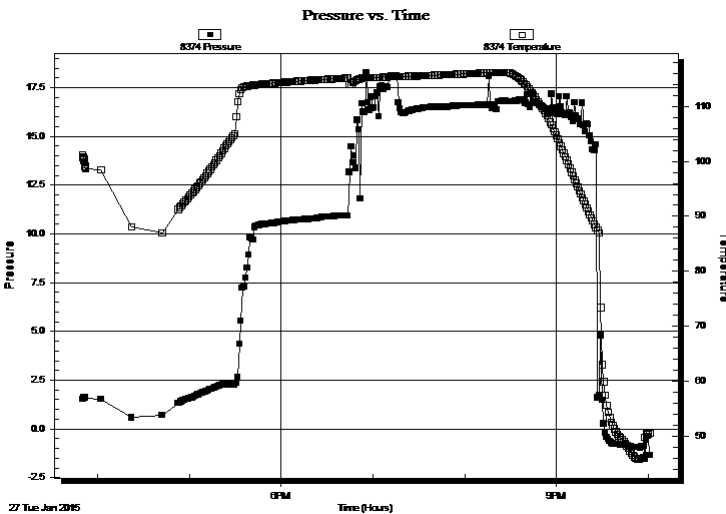
22:00:49

Time On Btm:

Time Off Btm:

TEST COMMENT: 10-IFP-w k bl thru-out surface to 3/4"bl
60-ISIP-no bl
30-FFP-w k to a gd bl 1/8"to 7"bl
60-FSIP-no bl

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
25.00	O&GCM 5%G15%O80%M	0.12
0.00	220 'GIP	0.00

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61144

DST#: 3

Test Start: 2015.01.27 @ 15:51:02

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 7.17 in³
Resistivity: ohm.m
Salinity: 700.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	O&GCM 5%G15%O80%M	0.123
0.00	220 'GIP	0.000

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

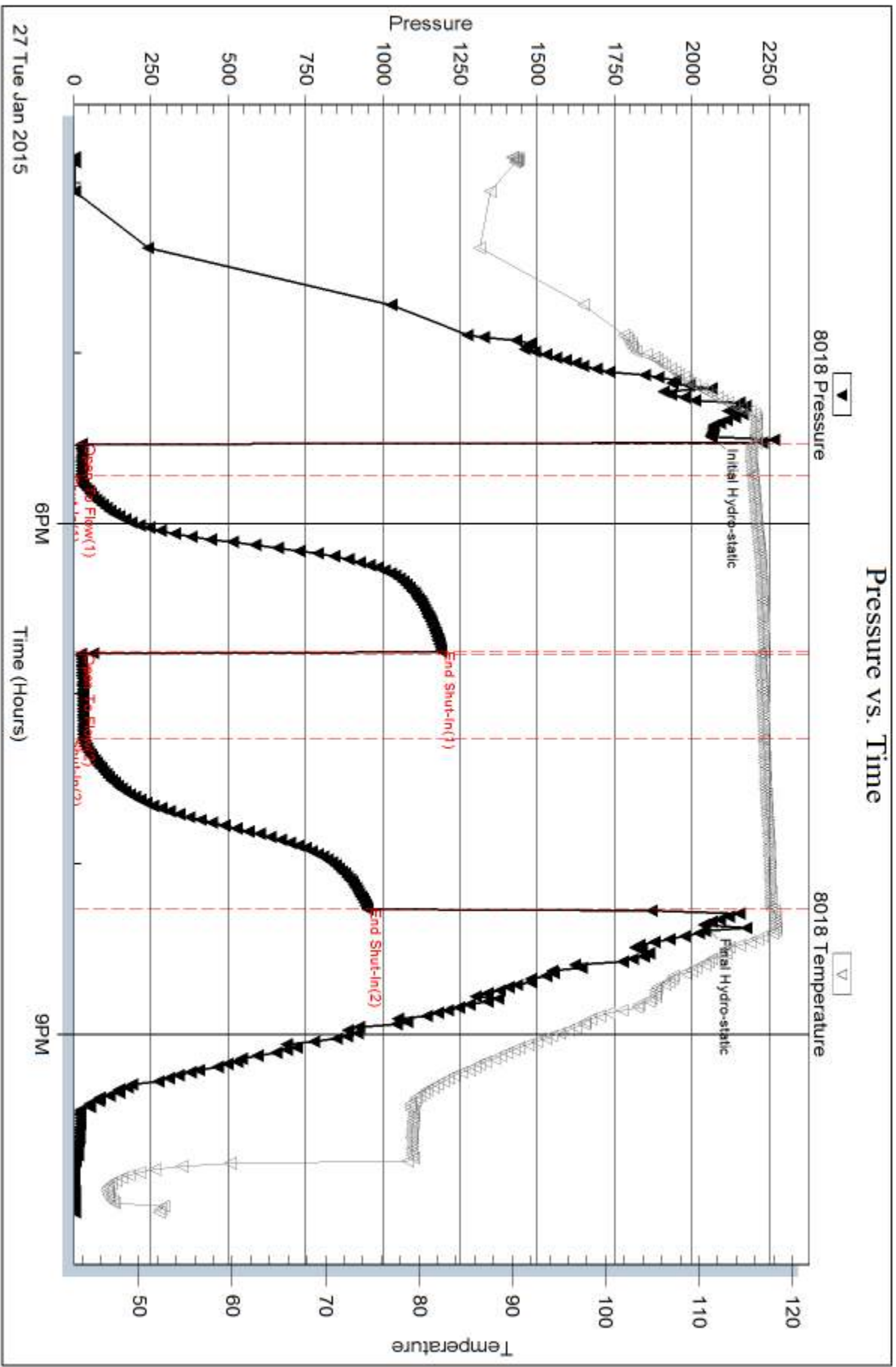
Num Gas Bombs: 0

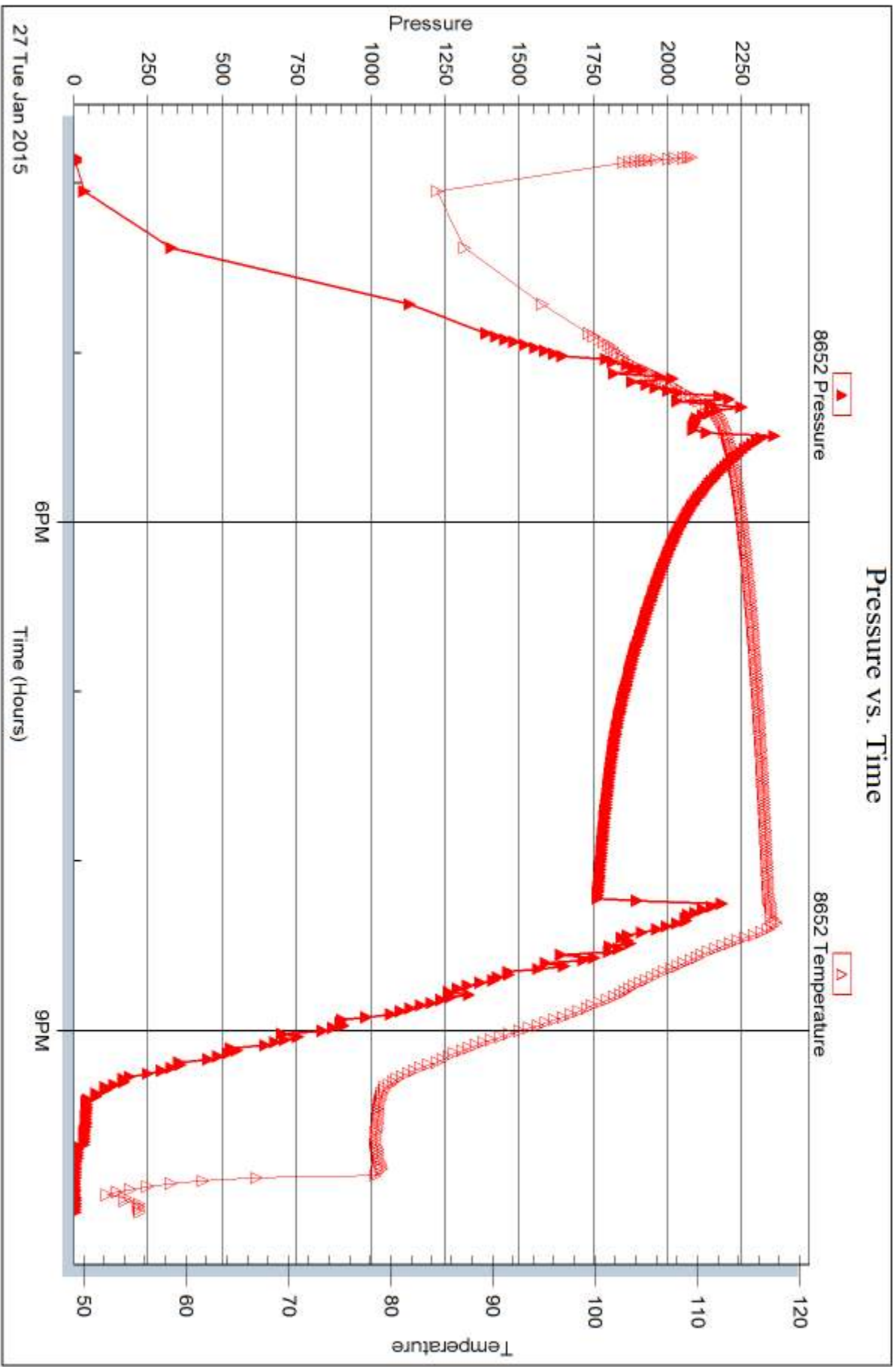
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





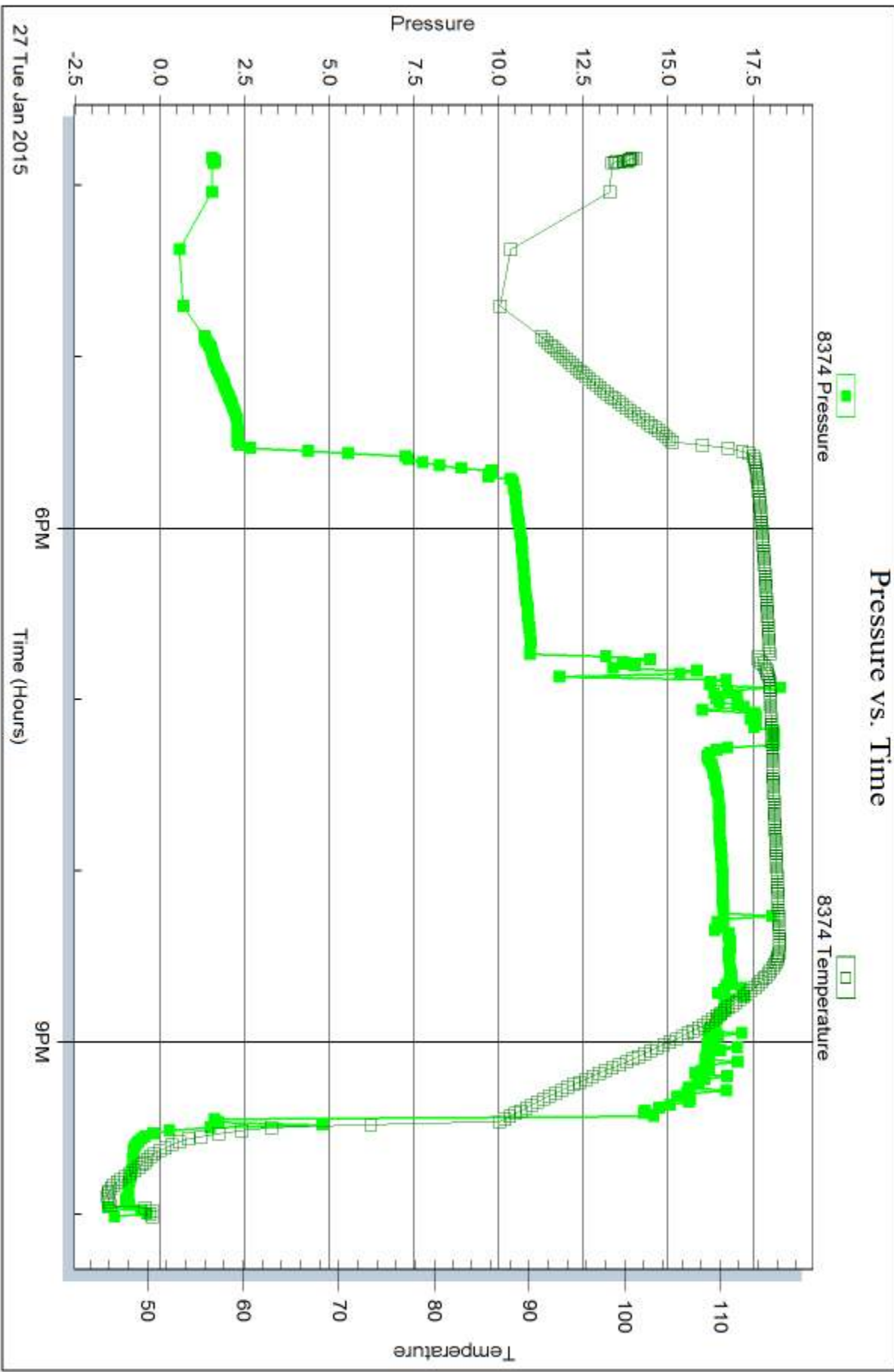
Serial #: 8374

Fluid

Samuel Gary Jr & Associates

K&K Farms 1-25

DST Test Number: 3





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61145 **DST#: 4**

Test Start: 2015.01.27 @ 22:30:57

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:49:52

Time Test Ended: 06:51:51

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 4342.00 ft (KB) To 4387.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4552.00 ft (KB) (TVD)

2897.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 237.92 psig @ 4345.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.27 End Date: 2015.01.28

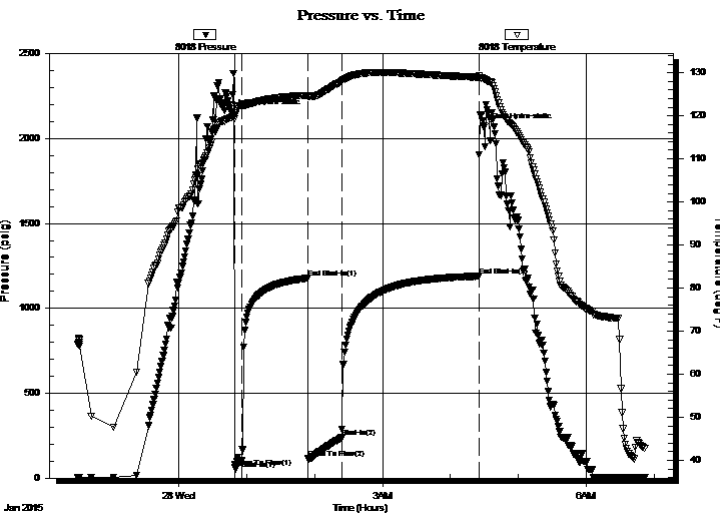
Last Calib.: 2015.01.28

Start Time: 22:30:57 End Time: 06:51:51

Time On Btm: 2015.01.28 @ 00:46:52

Time Off Btm: 2015.01.28 @ 04:29:51

TEST COMMENT: 5-IFP-w k to strg in 5 min
60-ISIP-no bl
30-FFP-w k to strg in 3 min
120-FSIP-surface bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.71	119.65	Initial Hydro-static
3	62.14	120.20	Open To Flow (1)
9	103.81	122.43	Shut-In(1)
67	1178.10	124.75	End Shut-In(1)
68	114.71	124.42	Open To Flow (2)
97	237.92	127.98	Shut-In(2)
218	1190.01	128.95	End Shut-In(2)
223	2066.71	128.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	580' GIP	0.00
125.00	SOCW 1%O99%W	1.48
410.00	HO&GCMW 25%G20%O25%M30%W	5.75

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61145 **DST#: 4**

Test Start: 2015.01.27 @ 22:30:57

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:49:52

Time Test Ended: 06:51:51

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 4342.00 ft (KB) To 4387.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4552.00 ft (KB) (TVD)

2897.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374 Below (Straddle)

Press@RunDepth: psig @ 4401.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.27 End Date: 2015.01.28

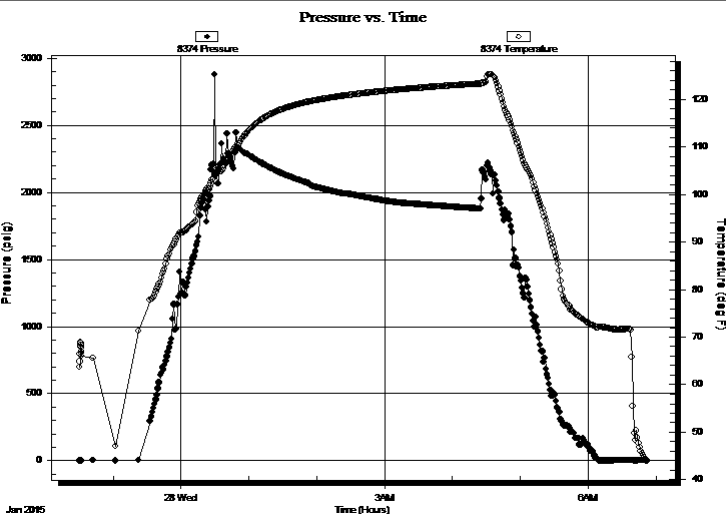
Last Calib.: 2015.01.28

Start Time: 22:30:20 End Time: 06:52:14

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP-w k to strg in 5 min
60-ISIP-no bl
30-FFP-w k to strg in 3 min
120-FSIP-surface bl bk



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	580' GIP	0.00
125.00	SOCW 1%O99%W	1.48
410.00	HO&GCMW 25%G20%O25%M30%W	5.75

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61145 **DST#: 4**
Test Start: 2015.01.27 @ 22:30:57

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)

Time Tool Opened: 00:49:52 Tester: Ray Schwager

Time Test Ended: 06:51:51 Unit No: 70

Interval: 4342.00 ft (KB) To 4387.00 ft (KB) (TVD) Reference Elevations: 2905.00 ft (KB)

Total Depth: 4552.00 ft (KB) (TVD) 2897.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

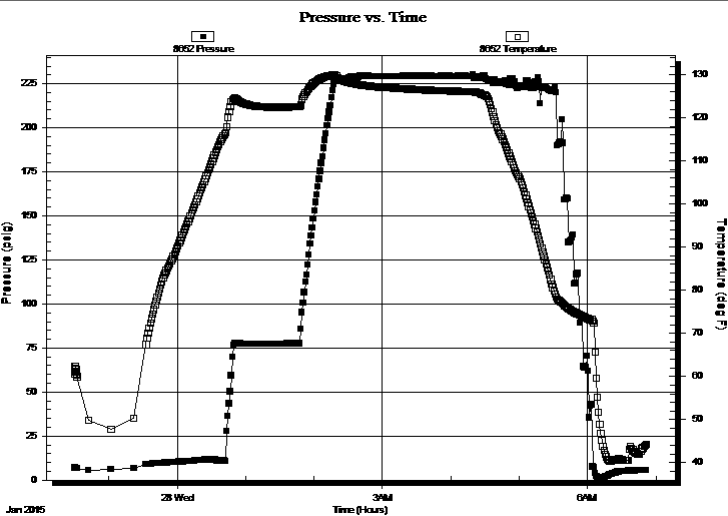
Serial #: 8652 Fluid

Press@RunDepth: psig @ 4309.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2015.01.27 End Date: 2015.01.28 Last Calib.: 2015.01.28

Start Time: 22:30:06 End Time: 06:52:00 Time On Btm: Time Off Btm:

TEST COMMENT: 5-IFP-w k to strg in 5 min
60-ISIP-no bl
30-FFP-w k to strg in 3 min
120-FSIP-surface bl bk



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	580' GIP	0.00
125.00	SOCW 1%O99%W	1.48
410.00	HO&GCMW 25%G20%O25%M30%W	5.75

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61145

DST#: 4

Test Start: 2015.01.27 @ 22:30:57

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 7.16 in³
Resistivity: ohm.m
Salinity: 750.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 43000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	580' GIP	0.000
125.00	SOCW 1%O99%W	1.480
410.00	HO&GCMW 25%G20%O25%M30%W	5.751

Total Length: 535.00 ft Total Volume: 7.231 bbl

Num Fluid Samples: 0

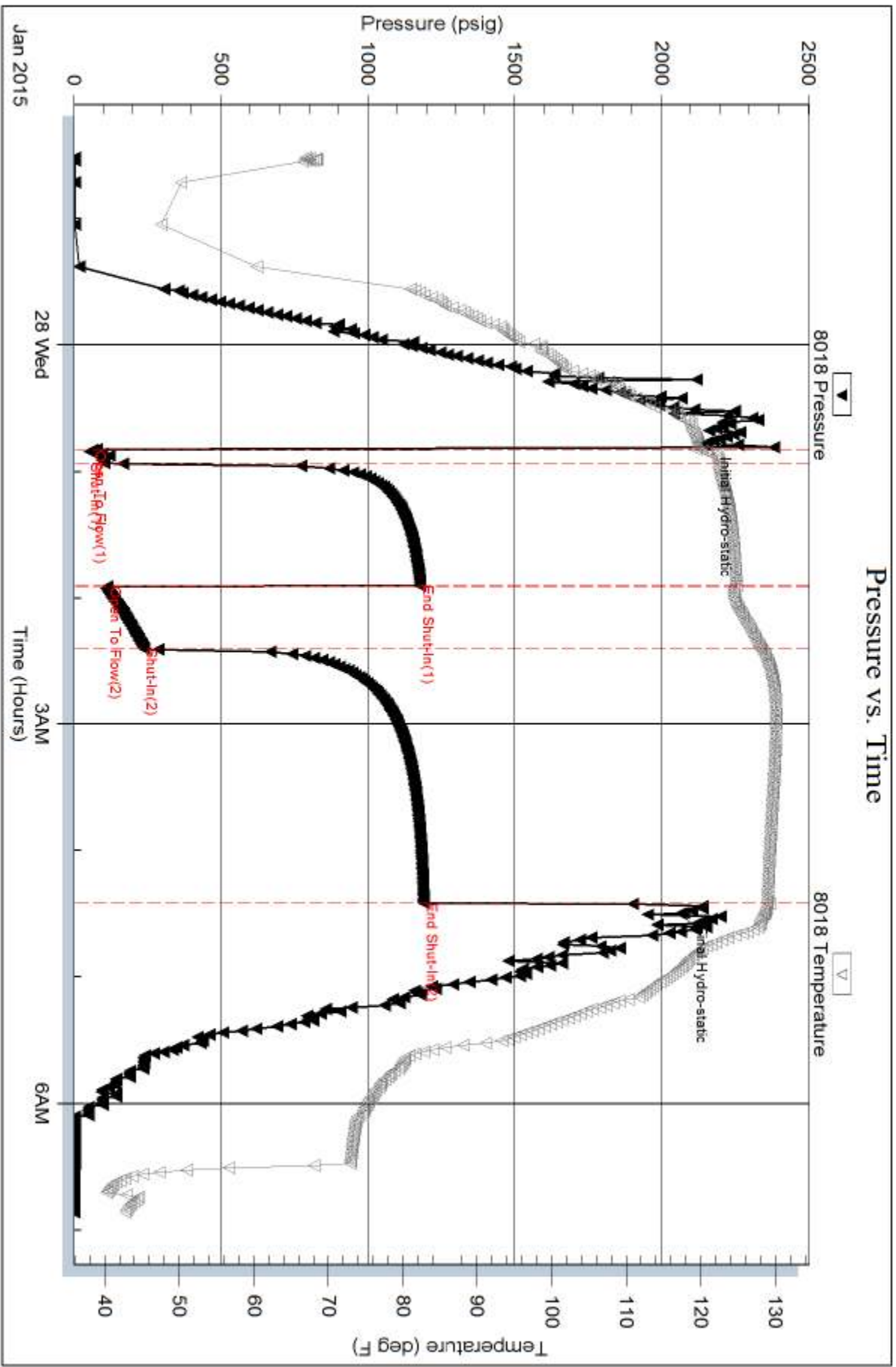
Num Gas Bombs: 0

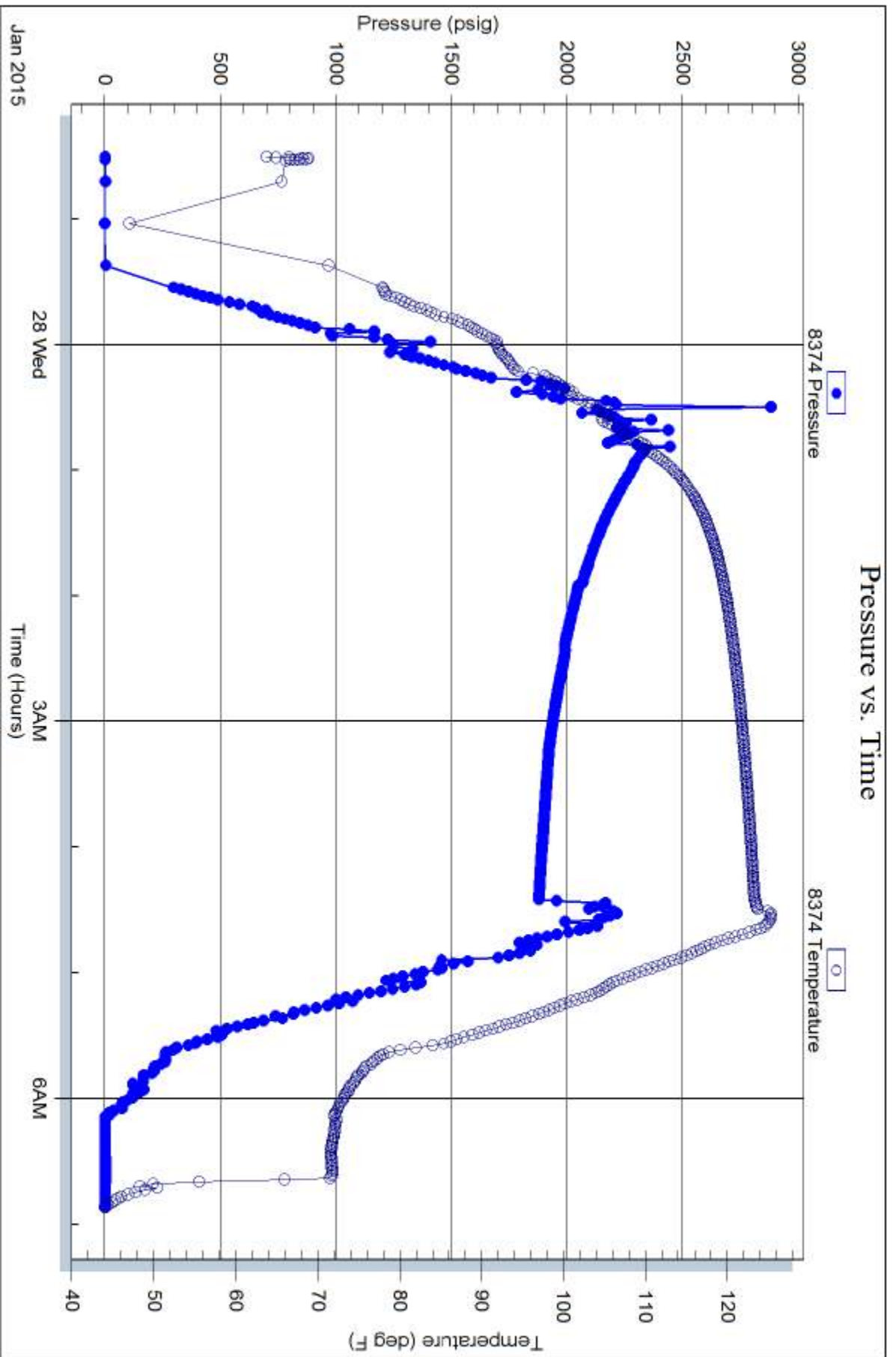
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .23 @ 50F





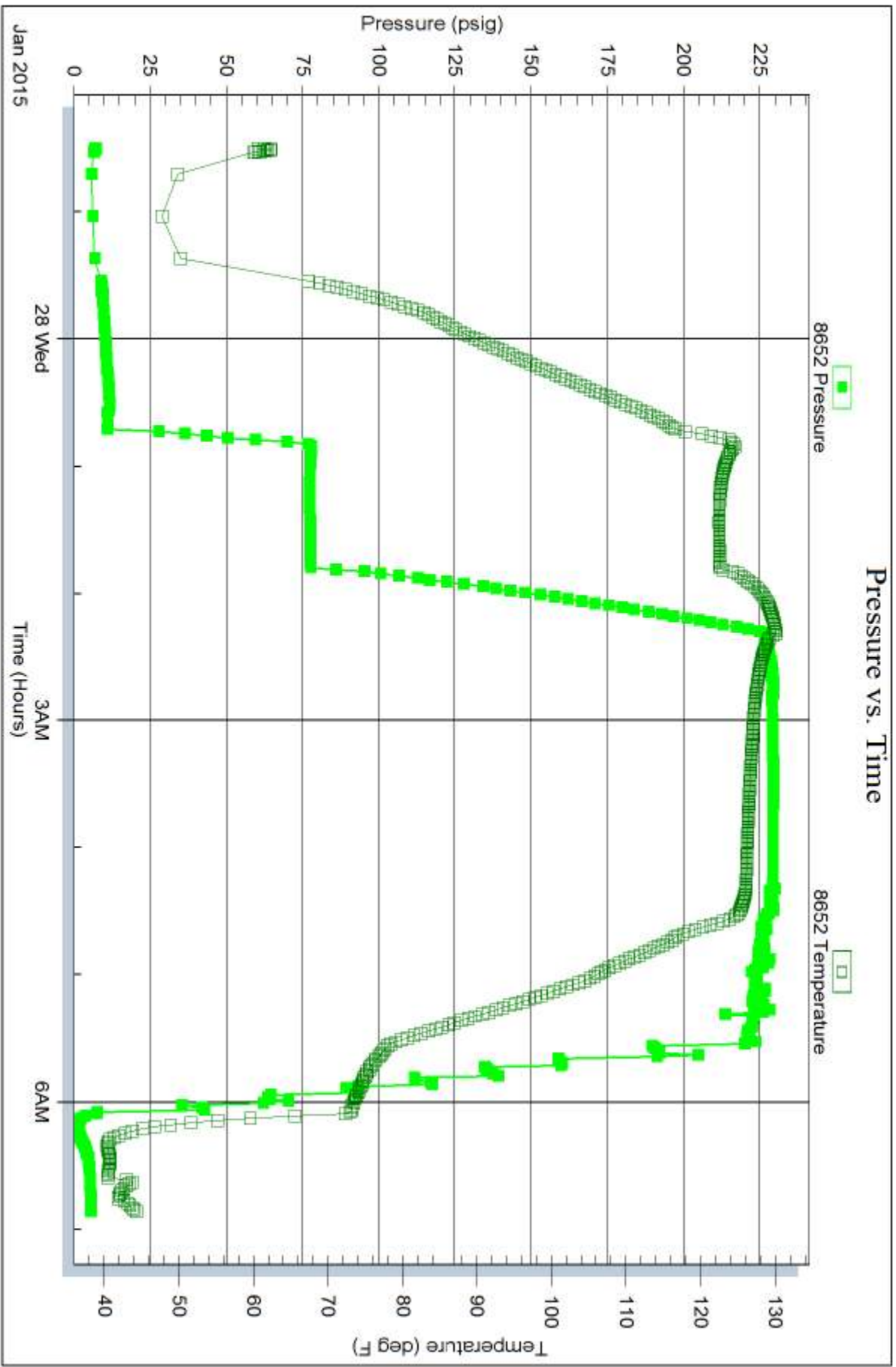
Serial #: 8652

Fluid

Samuel Gary Jr & Associates

K&K Farms 1-25

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 61145

Printed: 2015.01.28 @ 08:18:32



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

Well Name: SGA K & K Farms 1-25
Well Id:
Location: Sec. 25 T10S R30W
License Number: 15-179-21390
Spud Date: Jan 19, 2015
Surface Coordinates: 640' FSL 790' FWL

Region: Wildcat
Drilling Completed: Jan. 27, 2015

Bottom Hole
Coordinates:
Ground Elevation (ft): 2897' K.B. Elevation (ft): 2905'
Logged Interval (ft): 3875' To: 4550' Total Depth (ft): 4550'
Formation: Lansing / Kansas City
Type of Drilling Fluid: Natural Chemical

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

OPERATOR

Company: Samuel Gary Jr. & Assoc.
Address: 1515 Winkoop Street, Suite 700
Denver CO, 80202
Geo: Chris Mitchell

GEOLOGIST

Name: Jeff Kamps
Company: EARTH TECH OGL, Inc.
Address: PO Box 683 8918 5Th St
Hooker, Okla 73945 Great Bend, Ks. 67530
1-580-652-3924 1-888-543-8378



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61142 DST#: 1

Test Start: 2015.01.24 @ 09:00:20

GENERAL INFORMATION:

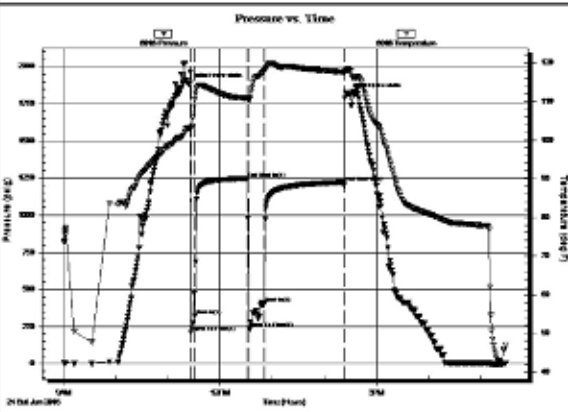
Formation: **Tor, LKC A-C**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:26:45
 Tester: Ray Schwager
 Time Test Ended: 17:28:44
 Unit No: 70
 Interval: 3938.00 ft (KB) To 4011.00 ft (KB) (TVD)
 Reference Elevations: 2905.00 ft (KB)
 Total Depth: 4011.00 ft (KB) (TVD)
 2897.00 ft (CF)
 Hole Diameter: 7.85 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 407.97 psig @ 3943.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.24 End Date: 2015.01.24 Last Callb.: 2015.01.24
 Start Time: 09:00:20 End Time: 17:28:44 Time On Btm: 2015.01.24 @ 11:23:45
 Time Off Btm: 2015.01.24 @ 14:27:44

TEST COMMENT: 5-IFP-strg bl in 2 min
 60-ISIP-no bl, 1st. 10 min, then wk bl built to 3"bl
 20-FFP-strg bl in 2min
 90-FSIP-2" bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.09	103.01	Initial Hydro-static
3	213.79	103.21	Open To Flow (1)
7	322.91	110.38	Shut-in(1)
68	1246.61	110.92	End Shut-in(1)
69	239.55	110.32	Open To Flow (2)
88	407.97	117.89	Shut-in(2)
180	1220.73	117.56	End Shut-in(2)
184	1815.30	118.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	MGO 20%G15%M65%O	4.50
560.00	CO	7.86
0.00	340'GP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-10s-30w Sheridan

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

K&K Farms 1-25

Job Ticket: 61143 DST#: 2

Test Start: 2015.01.25 @ 02:35:07

GENERAL INFORMATION:

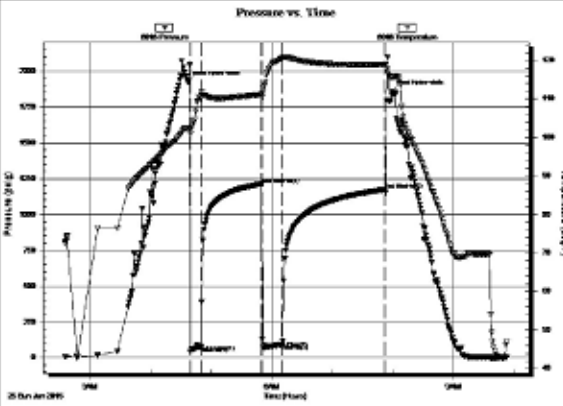
Formation: **LKC F-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:39:02
 Time Test Ended: 09:53:01
 Interval: **4030.00 ft (KB) To 4064.00 ft (KB) (TVD)**
 Total Depth: **4064.00 ft (KB) (TVD)**
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Play Schwager
 Unit No: 70
 Reference Elevations: 2905.00 ft (KB)
 2897.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 93.62 psig @ 4035.00 ft (KB)
 Start Date: 2015.01.25 End Date: 2015.01.25
 Start Time: 02:35:07 End Time: 09:53:01
 Capacity: 8000.00 psig
 Last Calib.: 2015.01.25
 Time On Btm: 2015.01.25 @ 04:36:32
 Time Off Btm: 2015.01.25 @ 07:58:31

TEST COMMENT: 10-IFP-w k to a fr bl 1/2" to 4" bl
 60-ISIP-no bl
 20-FFP-w k bl thru-out 1/4" to 3" bl
 90-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1924.98	102.22	Initial Hydro-static
3	39.52	100.86	Open To Flow (1)
14	77.59	110.78	Shut-in(1)
74	1212.29	111.14	End Shut-in(1)
75	66.87	111.96	Open To Flow (2)
94	93.62	120.53	Shut-in(2)
195	1172.20	118.90	End Shut-in(2)
202	1855.60	115.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Water	0.57
60.00	MW 20%MB0%W w/show of oil	0.84
20.00	SOCWM 2%Q25%W73% m	0.28
2.00	CO	0.03

Gas Rates

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

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Slstst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Slststn
- Shlyslts
- Sltys h
- Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

FOSSIL

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

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

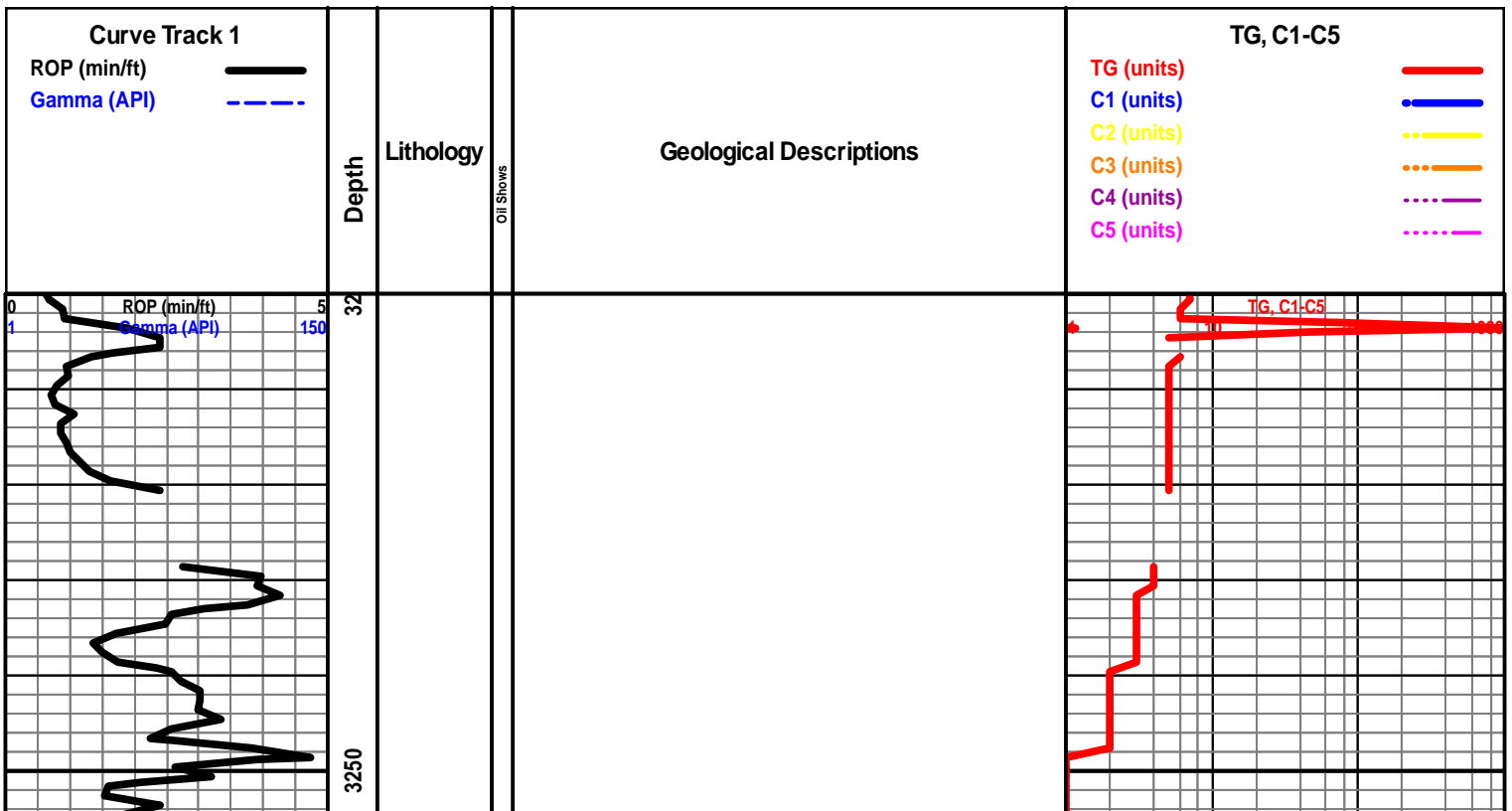
- Even
- Spotted
- Ques
- Dead
- Gas show

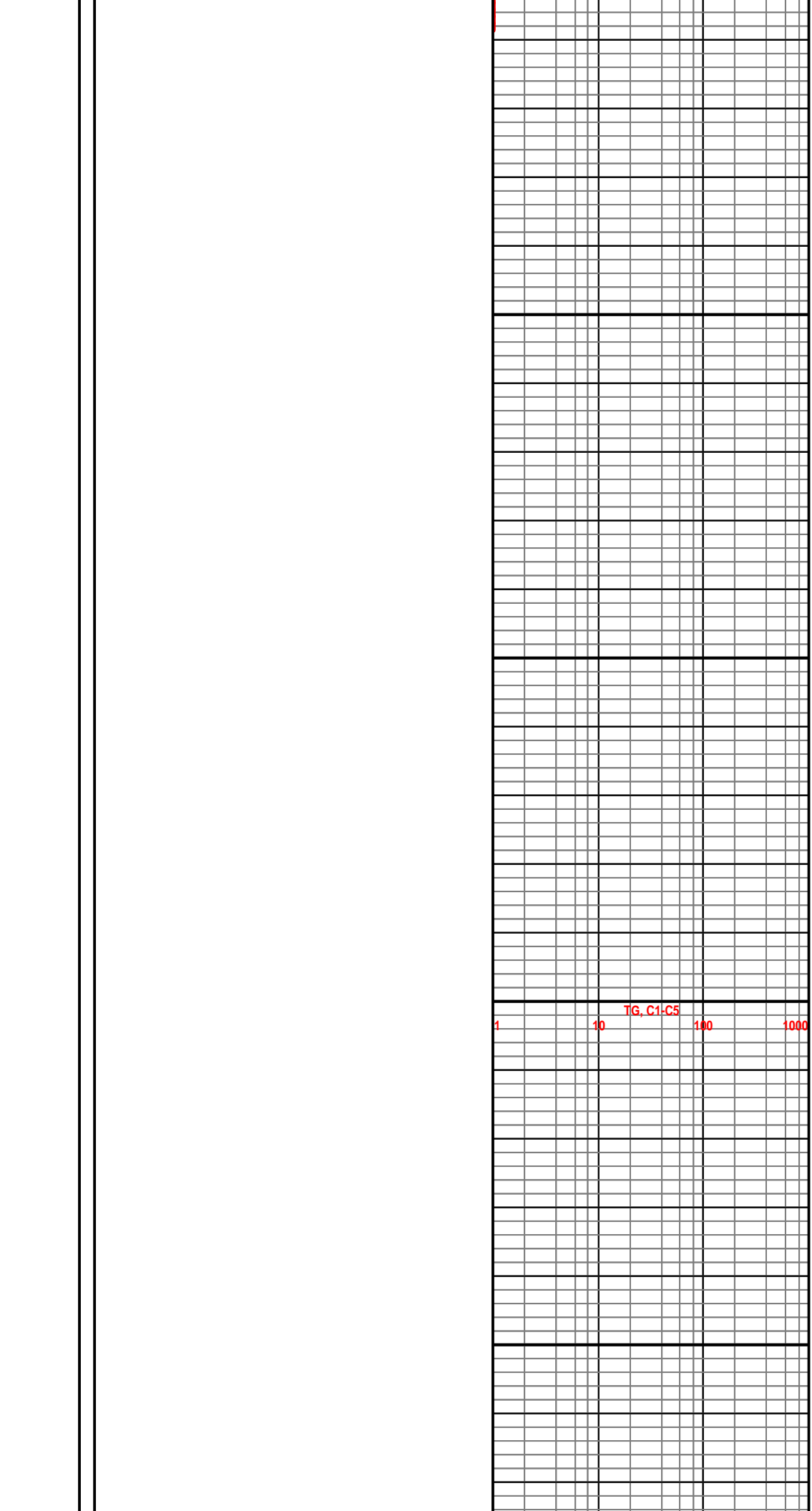
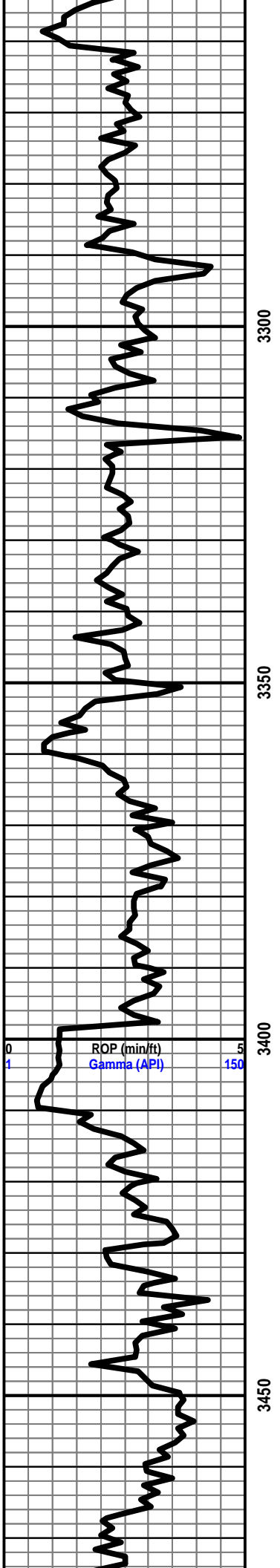
INTERVALS

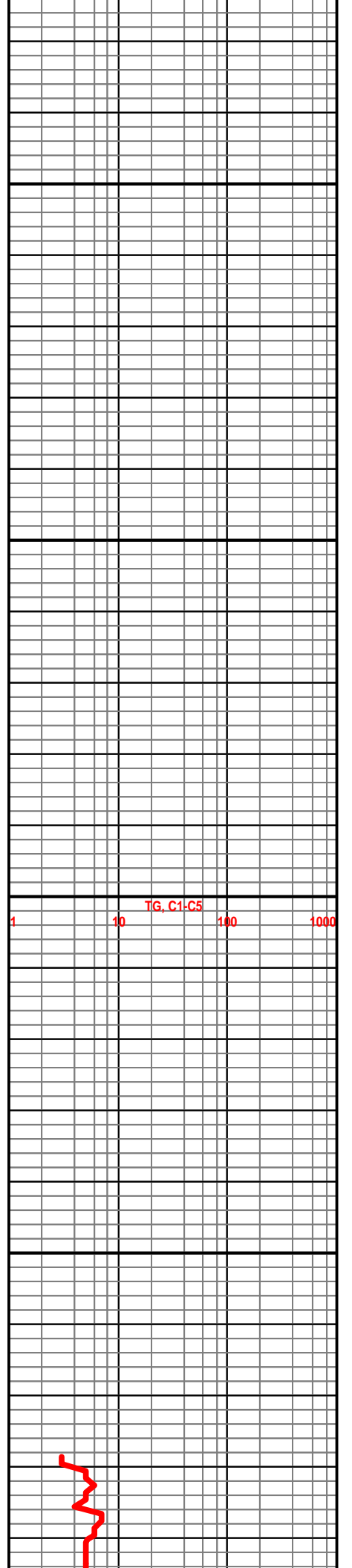
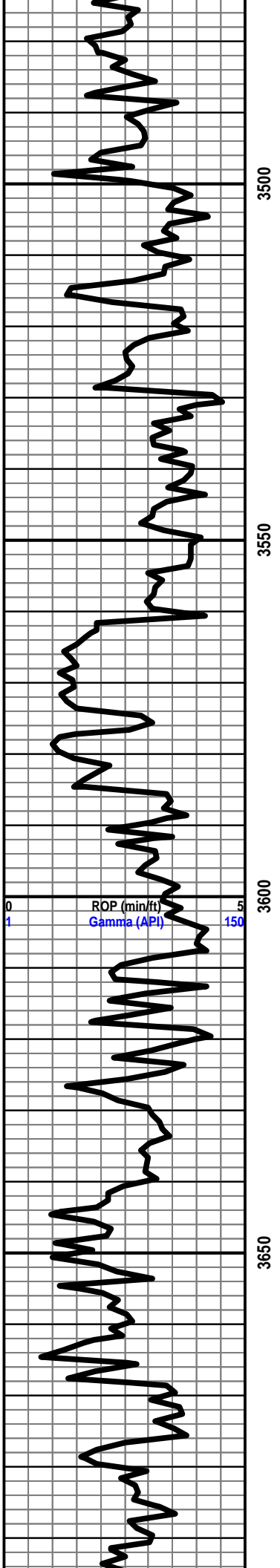
- Core
- Dst
- Dst

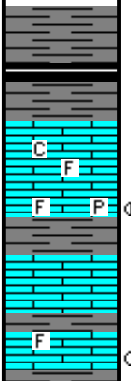
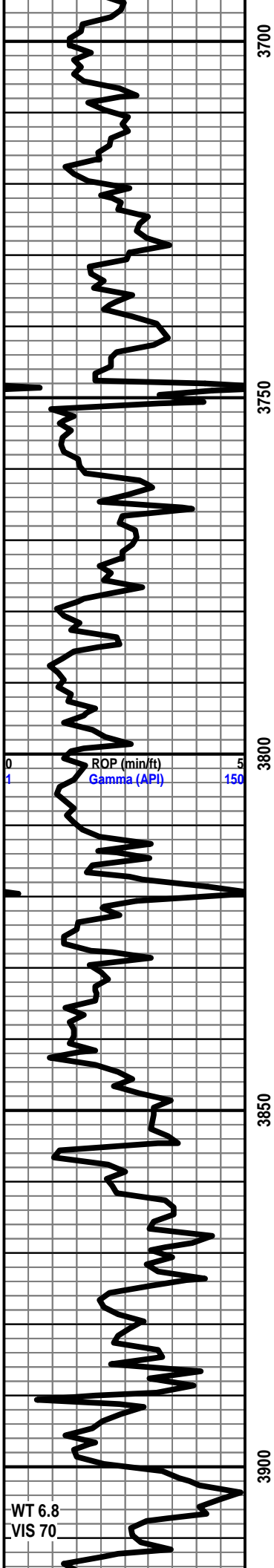
EVENTS

- Rft
- Sidewall







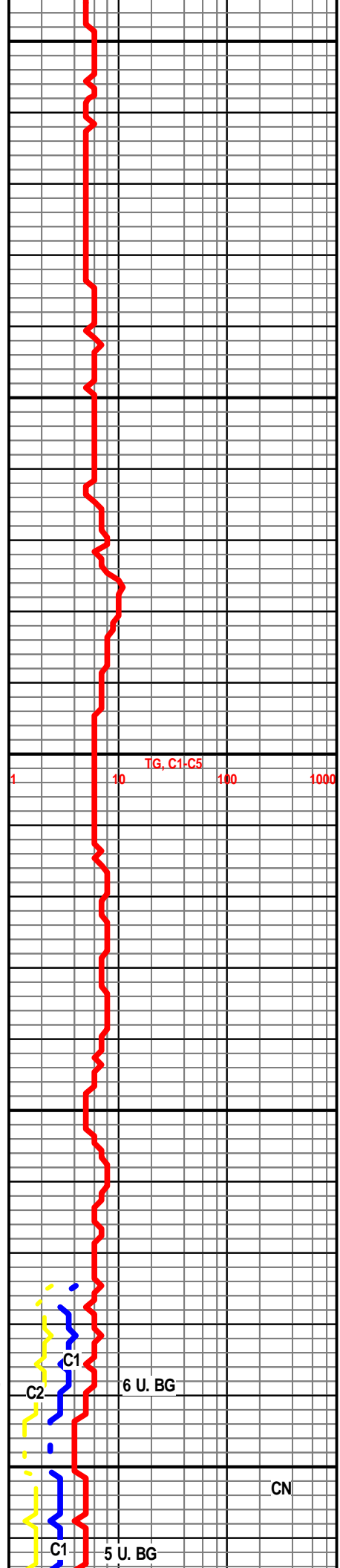


START 24 HOUR MANNED UNIT
 JAN. 23, 2014

LS - OFF WHT TO WHT(W/BLK OIL STN IN 10%), HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, TR IMBD FOSS FRAGS, TR FREE SFT WHT CHLK, LT TR IMBD PYR, YEL GLD FLO IN 40%, FR INTER-FOSS POR IN 2%, GD INST FLSH CUT, PR SLOW STRM CUT IN 10%, NO LCH ON DISH, NO OIL ODOR

LS - OFF WHT TO CRM, WHT IP(W/BLK OIL STN IN 5%), HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, TR IMBD FOSS FRAGS, TR FREE SFT WHT CHLK, DLL YEL FLO IN 5%, PR INTER-FOSS POR IN 1%, PR INST FLSH CUT, PR SLOW STRM CUT IN 5%, NO LCH ON DISH, NO ODOR

WT 6.8
 VIS 70



C1
 C2
 6 U. BG

C1
 5 U. BG

CN

WOB 35
RPM 70
PP 800

F P A
A F

LS - OFF WHT TO LT TN, HD DNS TO BRTT, FN TO MD-XLN, VF-XLN IP, S-SUCRO, IMBD CALC-XLS, TR FREE FOSS FRAGS, IMBD PYR, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW

HEEBNER 3933' (-1028')

SH - LT GRY TO GRY, FRM TO SFT IP, BLKY SMTH TXT, TR FREE PYR

(3957'-3960')LS - OFF WHT TO WHT, CRM IP, (W/LT TN OIL STN IN 30%) HD DNS TO BRTT, FN TO VF-XLN, MD-XLN IP, S-SUCRO, ABDT FREE SFT WHT CHLK THRU, IMBD FOSS FRAGS, YEL GLD FLO IN 50%, SPTTD BRI YEL FLO IN 10%, PR TO FR INTER-FOSS POR IN 3%, FR INTER-XLN POR IN 1% PR INST FLUSH CUT, PR TO FR SLOW STRM CUT IN 20%, TR LT TN LCH ON DISH, GD OIL ODOR,

LANSING 3974' (-1069')

(3975')LS - OFF WHT TO WHT, CRM IP(W/LT TN OIL STN IN 30%) HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, ABDT IMBD FOSS FRAGS, LT TR FREE SFT WHT CHLK, YEL GLD FLO IN 50%, SPTTD BRI YEL FLO IN 20%, PR TO FR INTER-FOSS POR IN 2%, FR INTER-XLN POR IN 1%, GD INST FLSH CUT, FR SLOW STRM CUT IN 30%, FAIR OIL ODOR, NO LCH ON DISH

(3990'-3991') LS - OFF WHT TO CRM(W/LT TN OIL STN IN 40%) HD DNS TO BRTT, FN TO MD-XLN, VF-XLN IP, S-SUCRO, IMBD FOSS FRAGS, LT TR IMBD SFT WHT CHLK, YEL GLD FLO THRU, SPTTD BRI YEL FLO IN 10%, FR TO GD INTER-FOSS POR IN 2%, PR INTER-XLN POR IN 1%, FR TO GD INST FLSH CUT, FR SLOW STRM CUT IN 30%, FAIR OIL ODOR, NO LCH ON DISH

LANSING "C" 4000' (-1095')

(4003'-4006')LS - OFF WHT TO CRM(W/TN OIL STN IN 50-60%) HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, LT TR IMBD CALC-XLS, LT TR IMBD FOSS FRAGS, YEL GLD FLO THRU, SPTTD BRI YEL FLO IN 20%, GD INTER-XLN POR IN 2%, FR TO GD VUG POR IN 2%, TR FR INTER-FOSS POR IN 1%, GD INST FLSH CUT, GD SLOW STRM CUT IN 50%, LT TN LCH ON DISH, STRONG OIL ODOR

(4017'-4020')LS - OFF WHT TO WHT (W/LT TN OIL STN IN 20%) HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, LT TR IMBD SFT WHT CHLK, YEL GLD FLO THRU, SPTTD BRI YEL FLO IP, GD VUG POR IN 3%, FR MICRO VUG POR IN 1%, FR INST FLUSH CUT, GD SLOW STRM CUT IN 50%, NO ODOR, NO LCH ON DISH

(4025'-4027') LS - OFF WHT TO CRM(W/TN OIL STN IN 50-60%) HD DNS TO BRTT, MD-XLN, FN-XLN IP, S-SUCRO, YEL GLD FLO IN 90%, GD TO EXCEL VUG POR IN 2%, GD MICRO VUG POR IN 2%, FR INST FLSH CUT, GD SLOW STRM CUT IN 30%, NO ODOR, NO LCH ON DISH

LANSING "F" SHALE 4039'(-1134')

LS - OFF WHT TO WHT, (W/TN OIL STN IN 90%) HD DNS TO BRTT, MD-XLN TO RE-XLN, S-SUCRO, ABDT IMBD FOSS FRAGS, YEL GLD FLO THRU, GD TO EXCEL INTER-FOSS POR IN 4%, GD VUG POR IN 2%, EXCEL INST FLUSH CUT, GD SLOW STRM CUT IN 50%, STRONG OIL ODOR, TN LCH ON DISH, LIVE OIL ON SAMPLES

LS - OFF WHT TO WHT (W/LT TN OIL STN IN 30%) HD DNS TO BRTT, FN TO MD-XLN, VF-XLN IP, S-SUCRO, IMBD FOSS FRAGS, TR IMBD SFT WHT CHLK, YEL GLD FLO IN 20%, FR INTER-FOSS POR IN 3%, FR VUG POR IN 1%, FR INST FLSH CUT, FR SLOW STRM CUT IN 20%, FAINT ODOR, NO LCH ON DISH

LS - OFF WHT TO WHT(W/LT TN OIL STN IN 10%) HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, TR IMBD FOSS FRAGS, TR IMBD CALC-XLS, YEL FLO THRU, PR INTER-XLN POR IN 1%, PR VUG POR IN 1%, PR INST FLUSH CUT, PR SLW STRM CUT IN 10%, FAIR ODOR, NO LCH ON DISH

LS - OFF WHT TO WHT, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, TR FREE SFT WHT CHLK, NO VIS FLO, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO CRM, LT TN IP, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, TR FREE CHRT, LT TR IMBD FOSS FRAGS, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, CRM IP (W/LT TN OIL STN IN 10%) HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, TR FREE S-ANG OFF WHT CHRT, YEL GLD FLO IN 60%, SPTTD BRI YEL FLO IN 10%, GD VUG POR IN 2%, FR INTER-XLN POR IN 1%, PR INST FLSH CUT, FR SLOW STRM CUT IN 20%, NO ODOR, NO LCH ON DISH

LS - OFF WHT TO WHT, GRY IP, HD DNS TO BRTT, FN TO MD-XLN

WT 6.9
VIS 69

WOB 35
RPM 70
PP 800

DST #1
3938'-4011'

CFS @ 3991'

WT 8.9
VIS 68

ROP (Depth)
Gamma (API)

CFS @ 4011'

WT 8.9
VIS 63

CFS @ 4032'

WOB 35
RPM 70
PP 800

WT 8.9
VIS 64

DST #2
4030'-4064'

CFS @ 4064'

WOB 35
RPM 70
PP 800

WT 9.4
VIS 62

WOB 35
RPM 70
PP 800

CFS @ 4129'

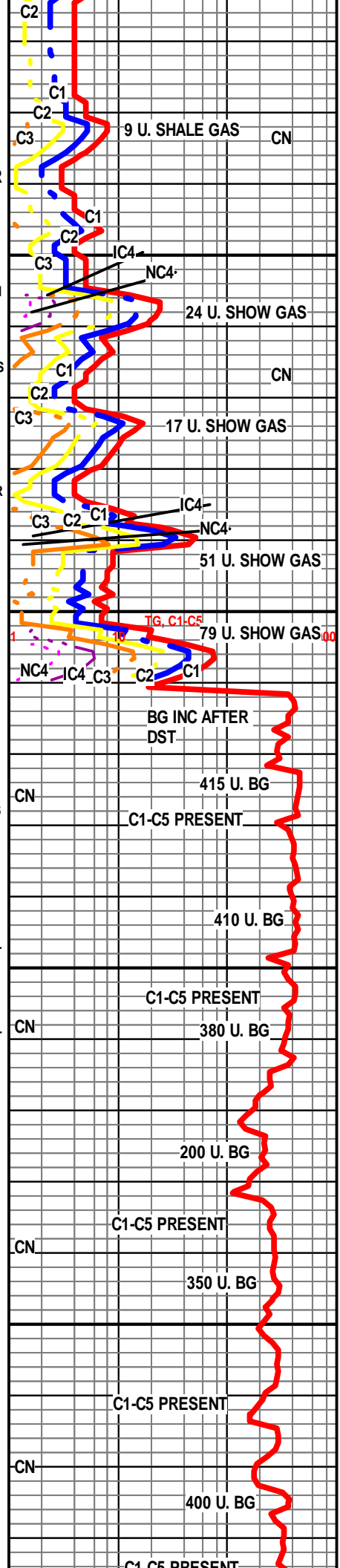
WT 9.1

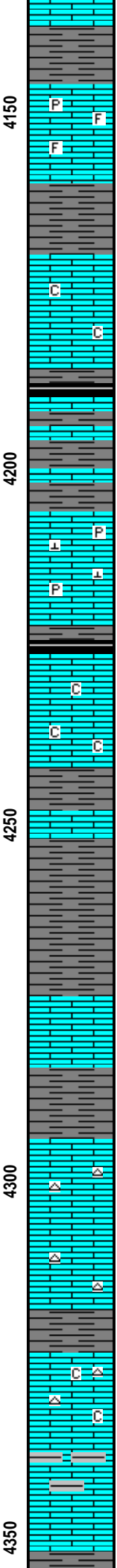
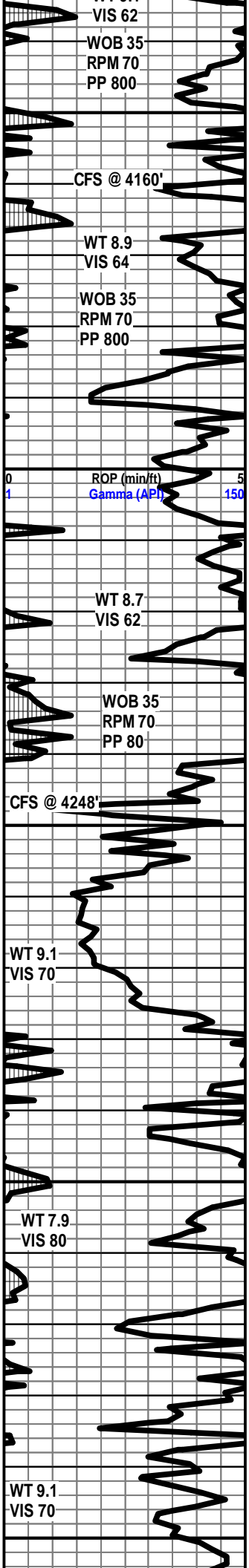
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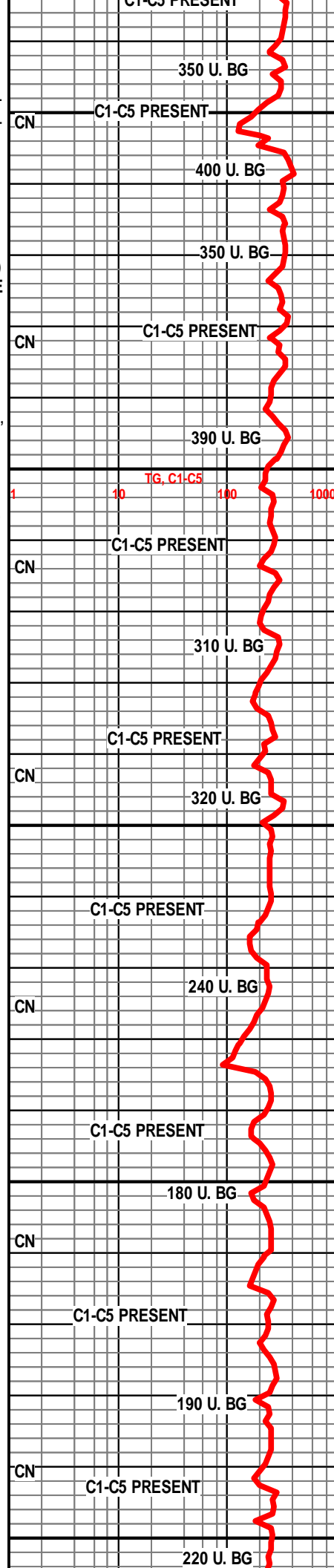
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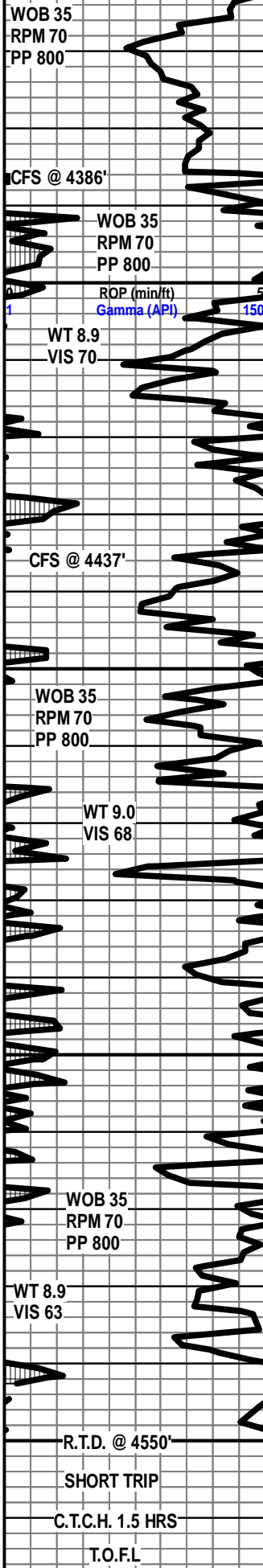
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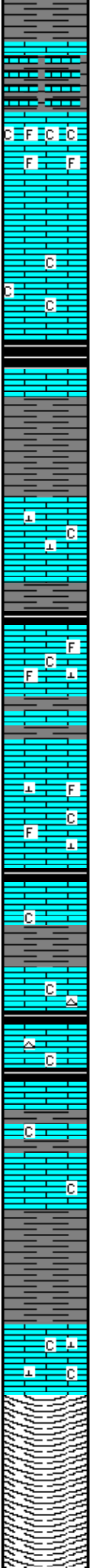


LS - OFF WHT TO TN(DUE TO TN OIL STN IN 70%) HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, IMBD FOSS FRAGS, TR FREE PYR, YEL GLD FLO IN 60%, SPTTD BRI YEL FLO IN 20%, FR TO GD INTER-FOSS POR IN 3%, FR VUG POR IN 2%, GD INST FLSH CUT, GD SLOW STRM CUT IN 50%, FAIR OIL ODOR, LT TN LCH ON DISH, LIVE OIL IN SAMPLE CUP
LANSING "J" 4170' (-1265')
 LS - OFF WHT TO WHT, CRM IP(W/ LT TN OIL STN IN 20%) HD DNS TO BRTT, FN-XLN TO VF-XLN, S-SUCRO, TR FREE SFT WHT CHLK, DLL YEL GLD FLO IN 20%, FR VUG POR IN 2%, FR INST FLSH CUT, FR SLOW STRM CUT IN 10%, FAINT OIL ODOR, NO LCH ON DISH
 LS - OFF WHT TO WHT, LT GRY IP, MOTT, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, TR IMBD CALC-XLS, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW
 LS - OFF WHT TO LT GRY, MOTT, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, LT TR IMBD SFT WHT CHLK, LT TR FREE PYR, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
 LS - OFF WHT TO CRM, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, ABDT FREE SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW
BKC @ 4242' (-1337')
 SH - GRY TO LT GRY, V SFT TO GMMY, SLTY SMTH TXT, ABDT FREE SFT WHT CHLK
 LS - OFF WHT TO LT GRY, HD DNS TO BRTT, MD-XLN TO FN-XLN, S-SUCRO, ABDT IMBD GRY SH, NO VIS FLO, NO VIS POR, NO CUT OR SHOW
 SH - LT GRY TO RD, BRWN IP, SFT TO GMMY, SMTH SLTY TXT
 LS - OFF WHT TO CRM, HD DNS TO BRTT, VF-XLN TO FN-XLN, S-SUCRO, ABDT FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
 LS - OFF WHT TO LT GRY, MOTT, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, ABDT FREE S-ANG OFF WHT CHRT, FREE GMMY GRY SH, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW
 LS - OFF WHT TO CRM, LT GRY IP, MOTT, HD DNS TO BRTT, MD-XLN TO FN-XLN, RE-XLN IP, S-SUCRO, FREE SFT WHT CHLK, FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW
 LS - OFF WHT TO LT GRY, MOTT, HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, FREE SFT TO GMMY GRY SH, TR FREE SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW





4400
4450
4500
4550



SH - LT GRY TO GRY, FRM TO SFT IP, BLKY SMTH TXT

LS - OFF WHT TO WHT, CRM IP, HD DNS TO BRTT, FN-XLN TO VF-XLN, MD-XLN IP, S-CHLKY, IMBD FOSS FRAGS, FREE SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO LT GRY, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, TR FREE SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

LABETTE 4404'(-1499')

LS - OFF WHT TO CRM, HD DNS TO BRTT, HD DNS TO BRTT, FN TO MD-XLN, VF-XLN IP, S-SUCRO, TR IMBD CALC-XLS, DLL YEL MIN FLO IN 10%, NO VIS POR, NO CUT OR SHOW

SH - LT GRY TO DRK GRY, FRM TO SFT, BLKY SMTH TXT

LS - OFF WHT TO WHT, CRM IP, HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, TR IMBD CALC-XLS, LT TR FREE SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

FT SCOTT 4443' (-1538')

LS - OFF WHT TO WHT, CRM IP, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, ABTD IMBD FOSS FRAGS, LT TR IMBD CALC-XLS, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO LT GRY, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, LT TR IMBD FOSS FRAGS, TR FREE SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

CHEROKEE 4477'(-1572')

LS - OFF WHT TO CRM, WHT IP, HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, LT TR FREE SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO CRM, LT GRY IP, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, TR FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IN 10%, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO LT GRY, MOTT, HD HNS TO BRTT, FN-XLN TO VF-XLN, S-CHLKY, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

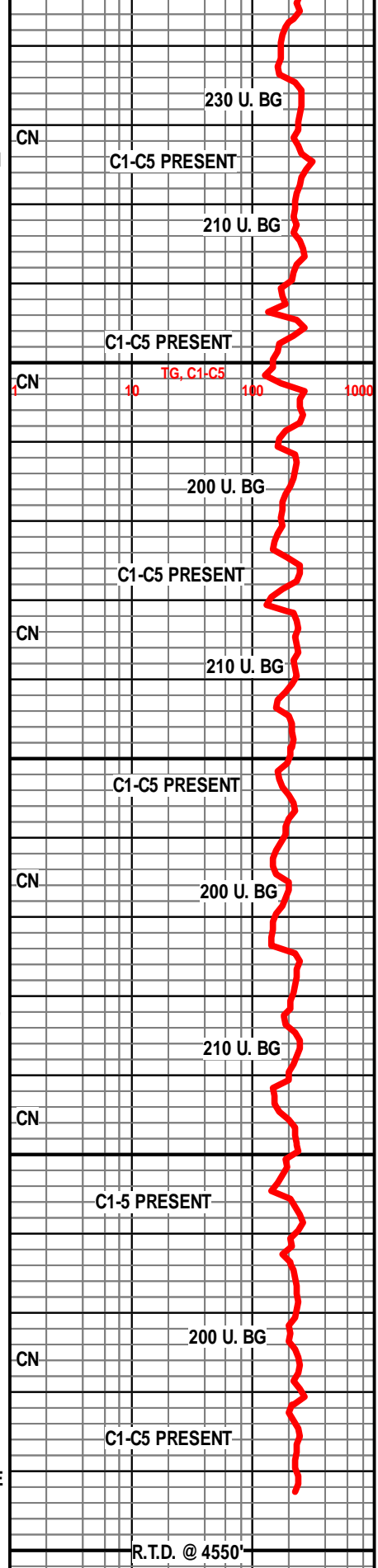
SH - LT GRY TO GRY, SFT TO GMMY, SLTY SMTH TXT

LS - OFF WHT TO CRM, HD DNS TO BRTT, FN-XLN TO VF-XLN, S-SUCRO, LT TR IMBD FOSS FRAGS, LT TR FREE SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

R.T.D. @ 4550'

R.T.D. @ 5:00 AM ON JAN. 27, 2015

LOGGING SERVICES COMPLETED BY: WEATHERFORD



SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

LOG COMPLETED BY JEFF KAMBO



BY: JEFF KAMPS