

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1252064
OIL & GAS CONSERVATION DIVISION

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
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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: _____

1252064

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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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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. 1123

Date	1-21-14	Sec.	26	Twp.	S	Range	37	County	Cheyenne	State	Ks	On Location		Finish	1:15 PM
------	---------	------	----	------	---	-------	----	--------	----------	-------	----	-------------	--	--------	---------

Location Brewster + I-70 21N to GRd 3W to 34 Rd

Lease	A.B. Fisher	Well No.	1-26	Owner	4 1/2 S W Hnto
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Contractor W W 4
To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish
Type Job Surface
cementer and helper to assist owner or contractor to do work as listed.

Hole Size	12 1/4"	T.D.	262'	Charge To	Sam Gasy Jr & Associates
-----------	---------	------	------	-----------	--------------------------

Csg.	8 3/8"	Depth	262'	Street	
------	--------	-------	------	--------	--

Tbg. Size		Depth		City	State
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Tool
The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg.	15'	Shoe Joint	15'	Cement Amount Ordered	250 sx Common 3% CC 2 1/2 Gal
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Meas Line		Displace	15 1/2 BLS	1/2 # Flowseal	
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EQUIPMENT

Pumptrk	20	No.	Cementer	Billy	Rick	Common	250
			Helper			Poz. Mix	
Bulktrk	19	No.	Driver	Doug		Gel.	5
			Driver			Calcium	9
Bulktrk	15	No.	Driver	Taylor		Hulls	
			Driver			Salt	

JOB SERVICES & REMARKS

Remarks: Cement did Circulate

Rat Hole
Flowseal 12.5#

Mouse Hole problems with sand
Kol-Seal

Centralizers
Mud CLR 48

Baskets
CFL-117 or CD110 CAF 38

D/V or Port Collar
Sand

Did NOT Run Centralizer
Handling 264

Pipe just about in
Mileage

hole when we arrived off
of previous job

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge

Mileage 62

X Signature *Walt Brown*

Tax	
Discount	
Total Charge	

ALLIED OIL & GAS SERVICES, LLC 063827

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Sabney B

DATE <u>1/22/15</u>	SEC <u>26</u>	TWP <u>5</u>	RANGE <u>37</u>	CALLED OUT	ON LOCATION <u>7:00 am</u>	JOB START <u>10:50 am</u>	JOB FINISH <u>11:30 am</u>
LEASE <u>AB E-1er</u>	WELL #	LOCATION <u>Brewster N to Rd G w to</u>		COUNTY <u>Houston</u>	STATE <u>TX</u>		
OLD OR NEW (Circle one) <u>NEW</u>		Rd 34 4749 W to N into					

CONTRACTOR WU Y

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D.

CASING SIZE 7 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Sam

CEMENT AMOUNT ORDERED 240 60/40 4820 gal

11470 gal

EQUIPMENT

PUMP TRUCK CEMENTER Mr Ryan

495-281 HELPER Mr Ryan

BULK TRUCK

818 DRIVER George Grant

BULK TRUCK

DRIVER

60/40 4820 gal	COMMON	240	@ 18.92	4540.80
	POZMIX		@	
	GEL	826.4	@ 1.50	1239.60
	CHLORIDE		@	
	ASC		@	
	Proseal	6016	@ 2.92	1782.00
	DDA Special Total		@	2182.00
	(2351.40 / 4.50)		@	
	HANDLING	257.76	@ 2.48	639.24
	MILEAGE @ 76¢/mi	10	@ 76¢	7.60
	TOTAL			5150.84

REMARKS:

50 SL @ 3000'

100 SL @ 2060'

50 SL @ 310'

10 SL @ 40'

30 SL @ 166'

SERVICE

DEPTH OF JOB 3000'

PUMP TRUCK CHARGE 2483.59

EXTRA FOOTAGE @

MILEAGE 35 mi @ 7.20 269.50

MANIFOLD Lign Vehicle miles 25 @ 4.40 159.00

TOTAL 4582.07

CHARGE TO: Sam Gray & Associates

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

8 5/8 wooden Plug @ 110

TOTAL 110.00

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 _____

SIGNATURE Walter Brown

SALES TAX (If Any) _____

TOTAL CHARGES 9824.27

DISCOUNT 4371.42 (45%) IF PAID IN 30 DAYS

5452.84 Net.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates
 1515 Wynkoop St. STE 700
 Denver, CO 80202
 ATTN: Clayton Camozzi

26/5n/37w Cheyenne KS

A. B. Fisher #1-26

Job Ticket: 60849

DST#: 1

Test Start: 2015.01.26 @ 17:05:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:19:30
 Time Test Ended: 01:41:15
 Interval: **4503.00 ft (KB) To 4544.00 ft (KB) (TVD)**
 Total Depth: 4544.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 3259.00 ft (KB)
 3254.00 ft (CF)
 KB to GR/CF: 5.00 ft

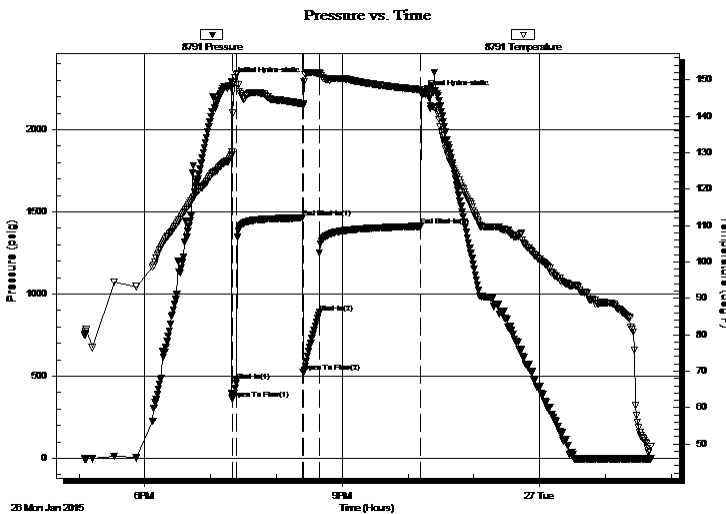
Serial #: 8791

Inside

Press @ Run Depth: 887.13 psig @ 4504.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.26 End Date: 2015.01.27 Last Calib.: 2015.01.27
 Start Time: 17:05:05 End Time: 01:41:15 Time On Btm: 2015.01.26 @ 19:18:45
 Time Off Btm: 2015.01.26 @ 22:12:15

TEST COMMENT: 5 - IF: BOB (11") Blow in under 1 min.
 60 - IS: No blow back
 15 - FF: Blow built to BOB at 1 min.
 90 - FS: Blow back built to BOB at 35 min.

PRESSURE SUMMARY



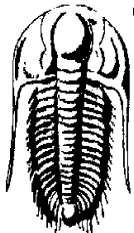
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2290.25	128.98	Initial Hydro-static
1	363.28	130.31	Open To Flow (1)
5	472.33	151.45	Shut-In(1)
65	1462.67	143.45	End Shut-In(1)
66	522.87	143.49	Open To Flow (2)
81	887.13	151.80	Shut-In(2)
173	1412.62	147.21	End Shut-In(2)
174	2215.48	147.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1130.00	SMCW w/trace oil 96%w, 4%m	14.75
310.00	OCGMW 35%w, 30%g, 22%m, 13%o mix	4.35
185.00	OCGMW 29%w, 29%g, 28%m, 7%fo, 7%ix	2.60
125.00	GWMCO 37%g, 36%fo, 11%m, 10%w, 6%ix	1.75
155.00	GOWCM 31%m, 29%g, 20%o mix, 14%w	2.17
0.00	GIP = 650'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

26/5n/37w Cheyenne KS

1515 Wynkoop St. STE 700
Denver, CO 80202

A. B. Fisher #1-26

Job Ticket: 60849

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.01.26 @ 17:05:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:19:30

Time Test Ended: 01:41:15

Interval: **4503.00 ft (KB) To 4544.00 ft (KB) (TVD)**

Total Depth: 4544.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Reference Elevations: 3259.00 ft (KB)
3254.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320

Outside

Press @ Run Depth: psig @ 4504.00 ft (KB)

Start Date: 2015.01.26 End Date: 2015.01.27

Start Time: 17:05:05 End Time: 01:40:15

Capacity: 8000.00 psig

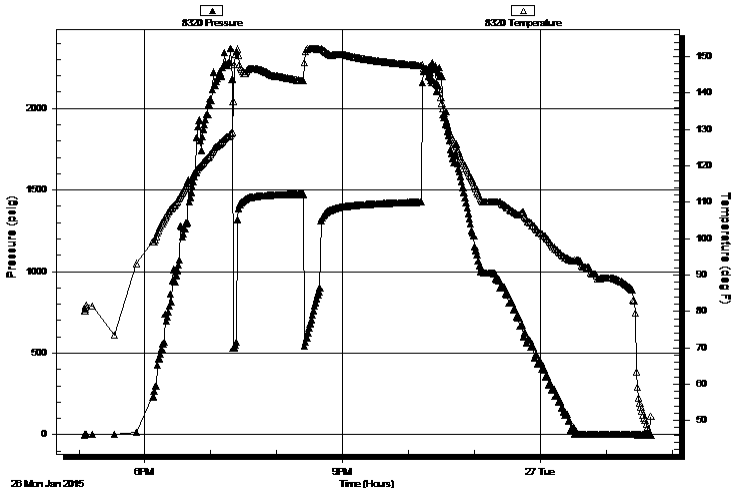
Last Calib.: 2015.01.27

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF: BOB (11") Blow in under 1 min.
60 - ISI: No blow back
15 - FF: Blow built to BOB at 1 min.
90 - FS: Blow back built to BOB at 35 min.

Pressure vs. Time



PRESSURE SUMMARY

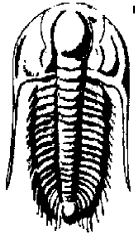
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1130.00	SMCW w/trace oil 96%w, 4%m	14.75
310.00	OCGMW 35%w, 30%g, 22%m, 13%o mix	4.35
185.00	OCGMW 29%w, 29%g, 28%m, 7%fo,	7.60ix
125.00	GWMCO 37%g, 36%fo, 11%m, 10%w,	6.17ix
155.00	GOWCM 31%m, 29%g, 20%o mix, 14%w	2.17.fo
0.00	GIP = 650'	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

26/5n/37w Cheyenne KS

1515 Wynkoop St. STE 700
Denver, CO 80202

A. B. Fisher #1-26

Job Ticket: 60849

DST#: 1

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Test Start: 2015.01.26 @ 17:05:00

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Formation: **Upper Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:19:30

Time Test Ended: 01:41:15

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 4503.00 ft (KB) To 4544.00 ft (KB) (TVD)

Reference Elevations: 3259.00 ft (KB)

Total Depth: 4544.00 ft (KB) (TVD)

3254.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8366 Fluid

Press @ Run Depth: psig @ 4470.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.26

End Date:

2015.01.27

Last Calib.:

2015.01.27

Start Time: 17:05:05

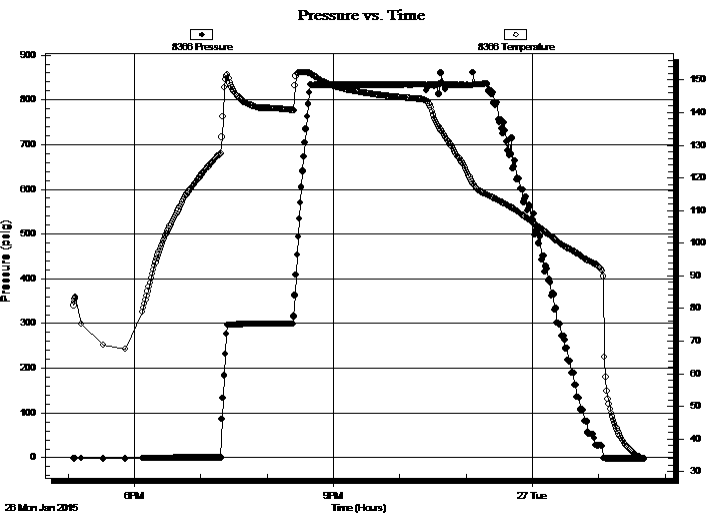
End Time:

01:41:45

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF: BOB (11") Blow in under 1 min.
60 - IS: No blow back
15 - FF: Blow built to BOB at 1 min.
90 - FS: Blow back built to BOB at 35 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1130.00	SMCW w/trace oil 96%w, 4%m	14.75
310.00	OCGMW 35%w, 30%g, 22%m, 13%o mix	4.35
185.00	OCGMW 29%w, 29%g, 28%m, 7%fo, 7%o mix	2.60
125.00	GWMCO 37%g, 36%fo, 11%m, 10%w, 6%o mix	1.75
155.00	GOWCM 31%m, 29%g, 20%o mix, 14%w, 1%fo	2.17
0.00	GIP = 650'	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

26/5n/37w Cheyenne KS

1515 Wynkoop St. STE 700
Denver, CO 80202

A. B. Fisher #1-26

Job Ticket: 60849

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.01.26 @ 17:05:00

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:

17500 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 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 bbl
1130.00	SMCW w/trace oil 96%w , 4%m	14.749
310.00	OCGMW 35%w , 30%g, 22%m, 13%o mix	4.348
185.00	OCGMW 29%w , 29%g, 28%m, 7% fo, 7%o n	2.595
125.00	GWMCO 37%g, 36%fo, 11%m, 10%w , 6%o r	1.753
155.00	GOWCM 31%m, 29%g, 20%o mix, 14%w , 6%	2.174
0.00	GIP = 650'	0.000

Total Length: 1905.00 ft Total Volume: 25.619 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

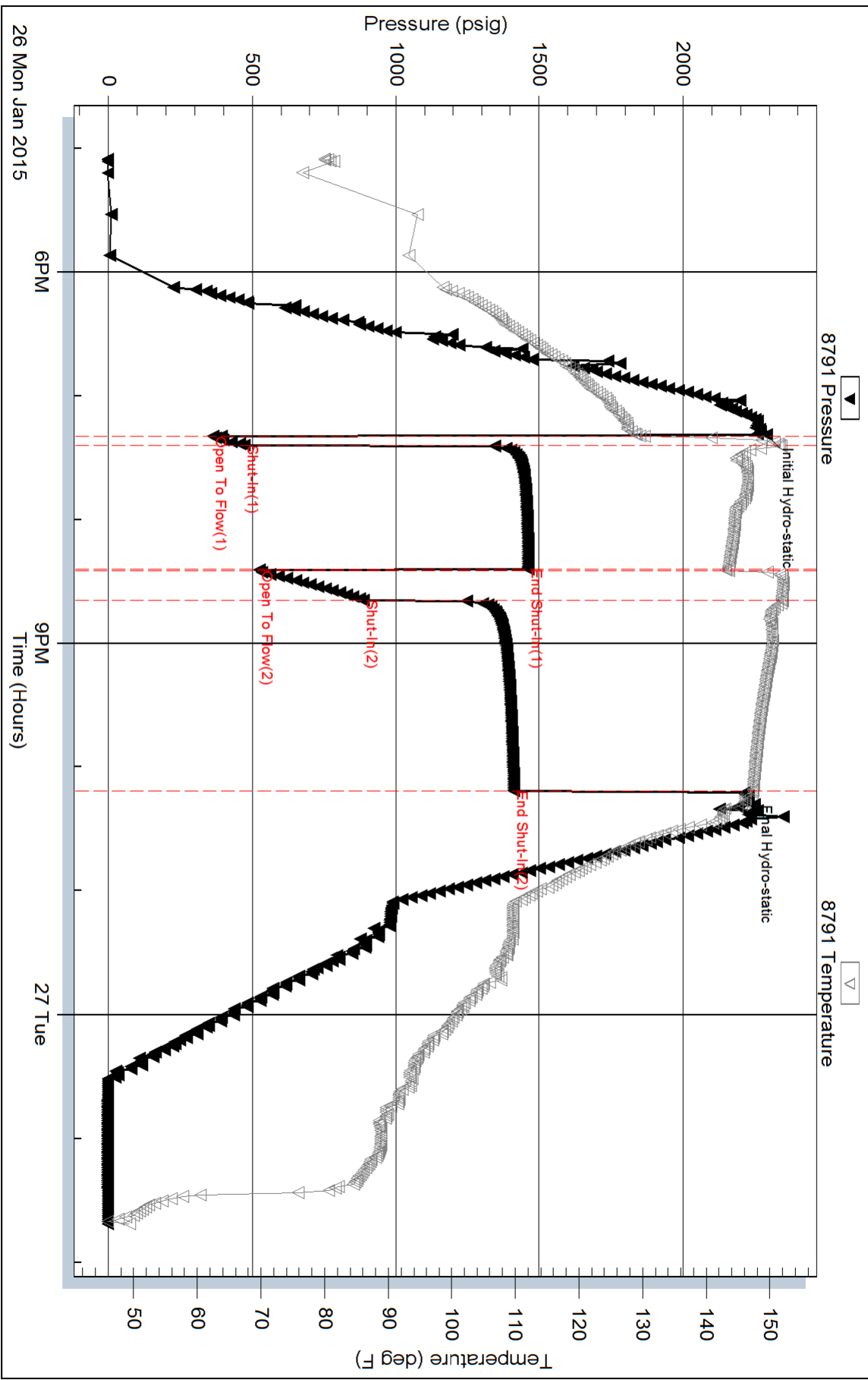
Laboratory Name:

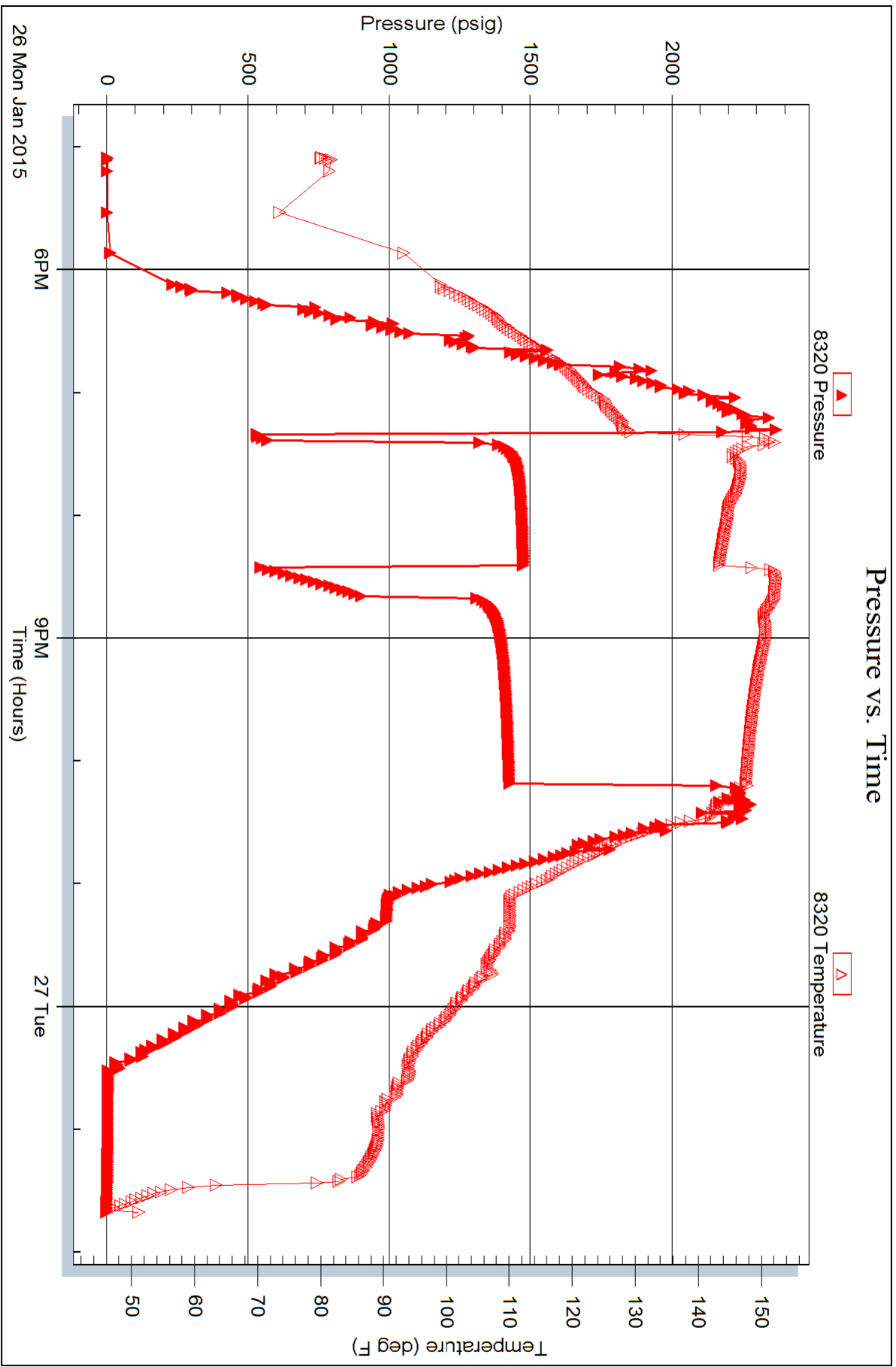
Laboratory Location:

Recovery Comments: RW = .550 ohms @ 49.1 deg F Chlorides = 17,500 ppm

Samples had Free oil and an oil mud salt gas mixture - I tried to separate them in the percentages (the 310' recovery the mixture looked like more mud than oil)

Pressure vs. Time





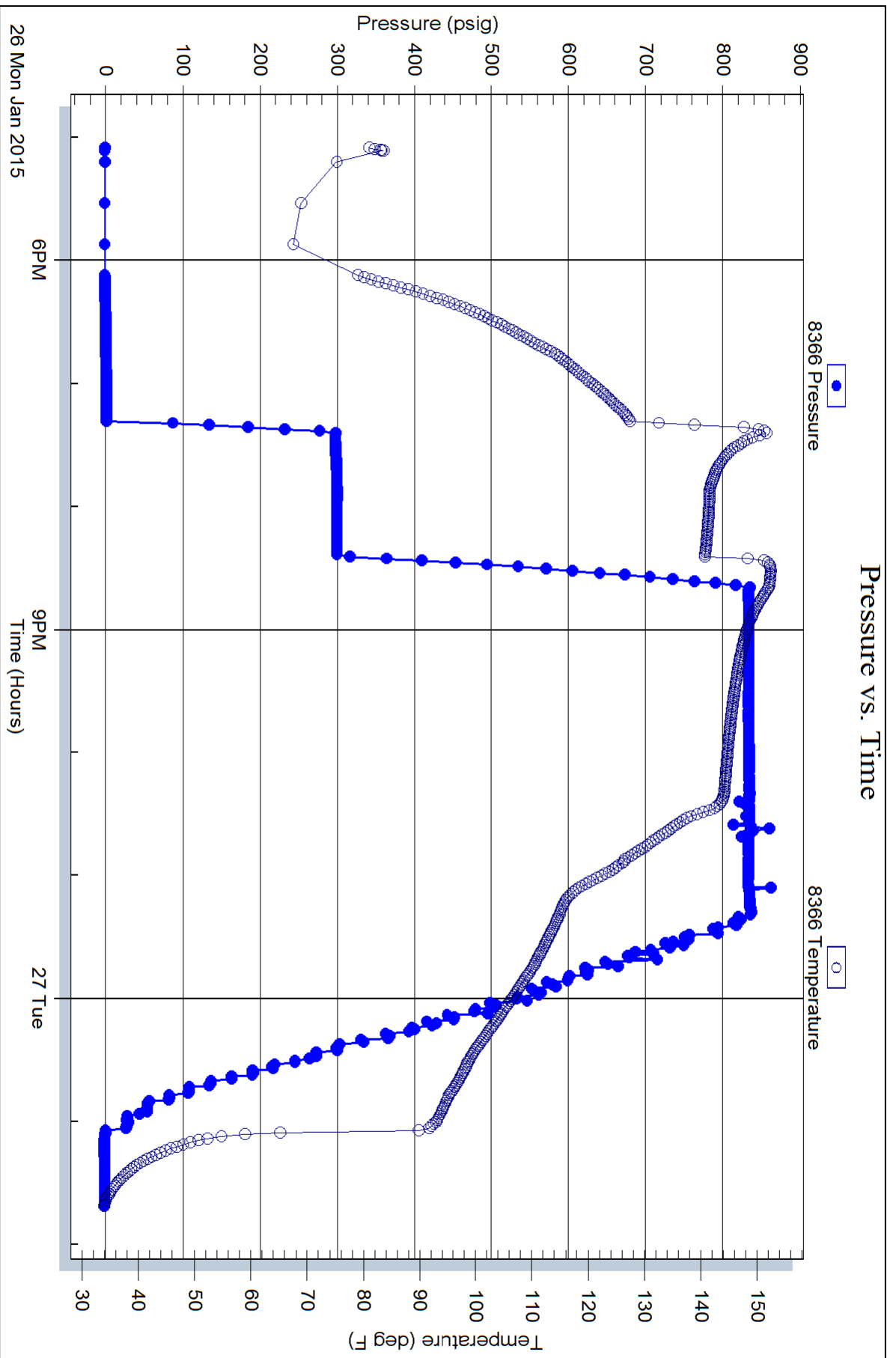
Serial #: 8366

Fluid

Samuel Gary Jr. & Associates

A. B. Fisher #1-26

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

26/5n/37w Cheyenne KS

1515 Wynkoop St. STE 700
Denver, CO 80202

A. B. Fisher #1-26

Job Ticket: 60850

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2015.01.27 @ 21:45:00

GENERAL INFORMATION:

Formation: **Penn Sand #1**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:16:00

Time Test Ended: 05:57:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4624.00 ft (KB) To 4668.00 ft (KB) (TVD)

Reference Elevations: 3259.00 ft (KB)

Total Depth: 4668.00 ft (KB) (TVD)

3254.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 144.31 psig @ 4625.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.27

End Date:

2015.01.28

Last Calib.:

2015.01.28

Start Time: 21:45:05

End Time:

05:56:59

Time On Btm:

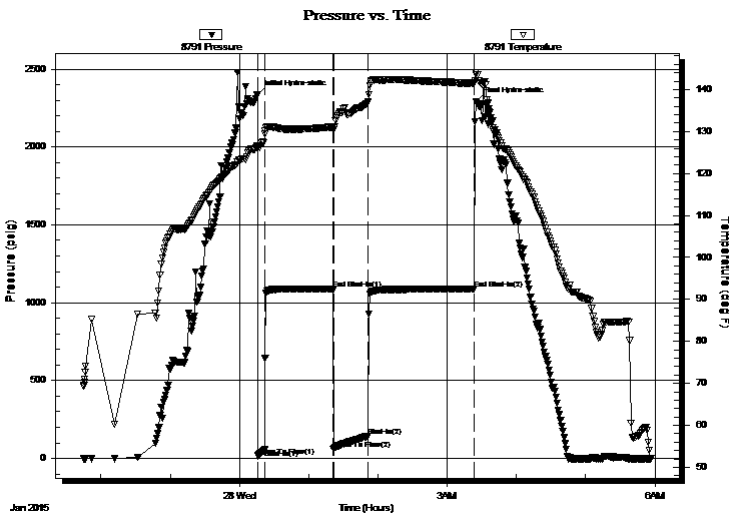
2015.01.28 @ 00:15:45

Time Off Btm:

2015.01.28 @ 03:25:00

TEST COMMENT: 5 - IF: Blow built to 3"
60 - ISI: No blow back
30 - FF: Blow built to BOB (11") at 28 1/2 min.
90 - FSI: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2335.48	126.60	Initial Hydro-static
1	16.60	125.84	Open To Flow (1)
7	55.25	129.33	Shut-In(1)
66	1088.72	131.07	End Shut-In(1)
66	57.66	130.50	Open To Flow (2)
96	144.31	137.02	Shut-In(2)
188	1087.35	141.53	End Shut-In(2)
190	2291.63	143.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SWCM 97% m, 3% w	0.30
220.00	Mud 100%	2.53
0.00	Oil spots in tool	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

26/5n/37w Cheyenne KS

1515 Wynkoop St. STE 700
Denver, CO 80202

A. B. Fisher #1-26

Job Ticket: 60850

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2015.01.27 @ 21:45:00

GENERAL INFORMATION:

Formation: **Penn Sand #1**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:16:00

Time Test Ended: 05:57:00

Interval: **4624.00 ft (KB) To 4668.00 ft (KB) (TVD)**

Total Depth: 4668.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Reference Elevations: 3259.00 ft (KB)
3254.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366 Fluid

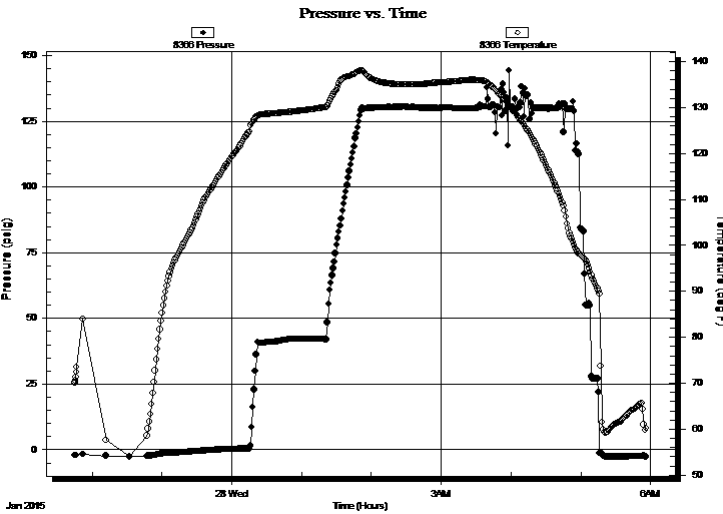
Press@RunDepth: psig @ 4591.00 ft (KB) Capacity: 8000.00 psig

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

Start Time: 21:45:05 End Time: 05:56:14 Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF: Blow built to 3"
60 - ISI: No blow back
30 - FF: Blow built to BOB (11") at 28 1/2 min.
90 - FSI: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SWCM 97%w, 3%w	0.30
220.00	Mud 100%	2.53
0.00	Oil spots in tool	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

26/5n/37w Cheyenne KS

1515 Wynkoop St. STE 700
Denver, CO 80202

A. B. Fisher #1-26

Job Ticket: 60850

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2015.01.27 @ 21:45:00

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: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SWCM 97% _m , 3% _w	0.295
220.00	Mud 100%	2.530
0.00	Oil spots in tool	0.000

Total Length: 280.00 ft Total Volume: 2.825 bbl

Num Fluid Samples: 0

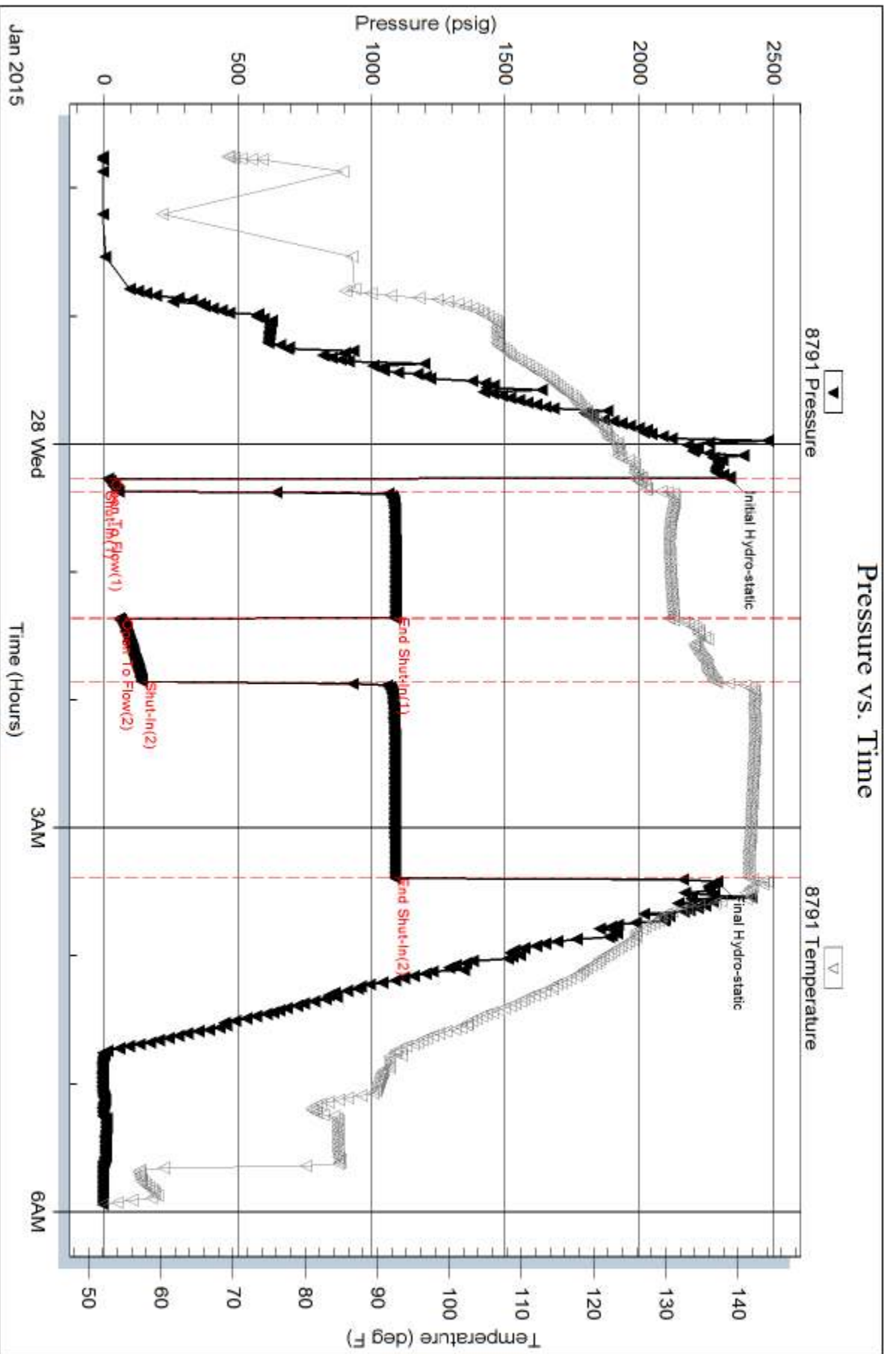
Num Gas Bombs: 0

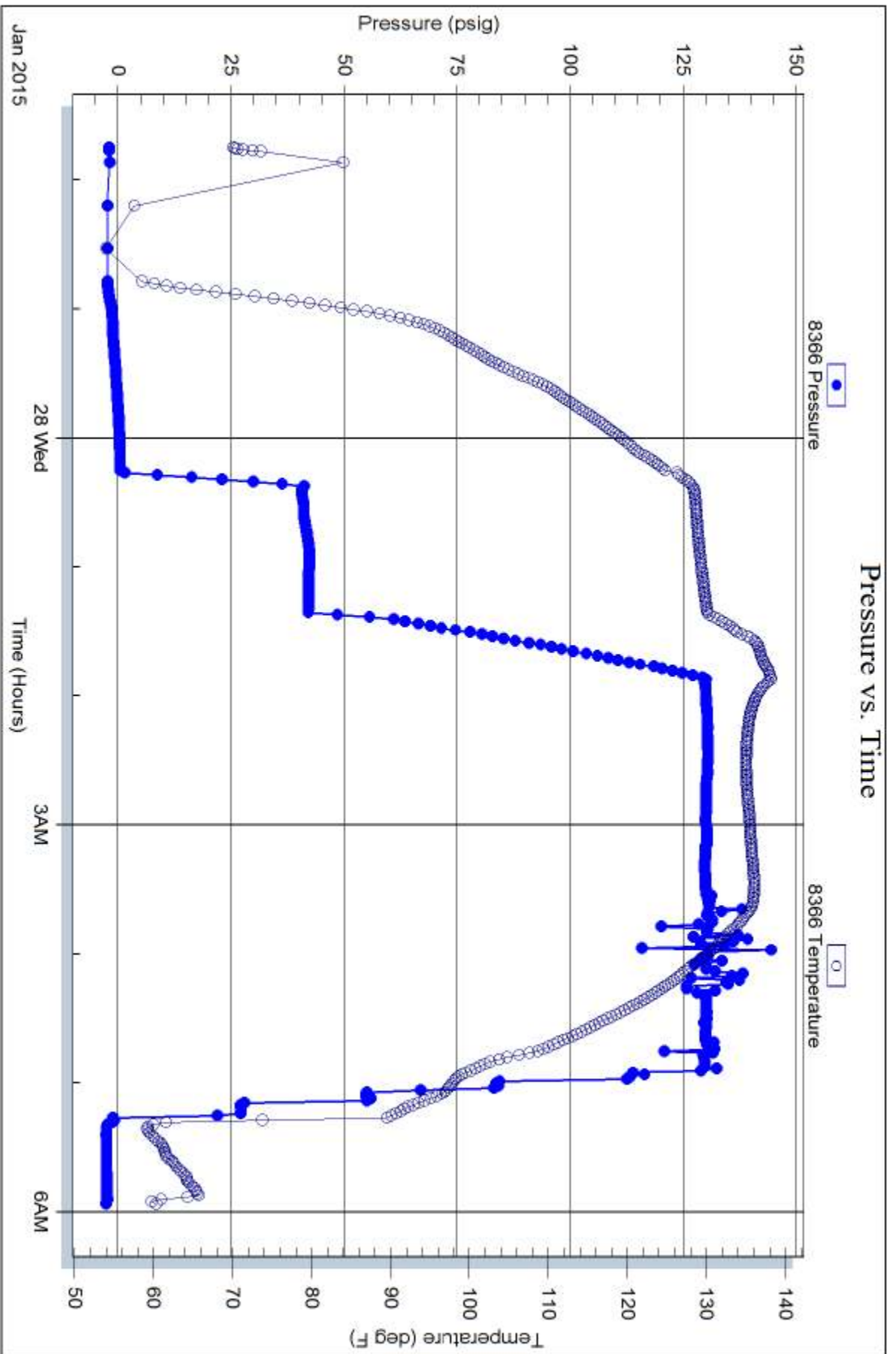
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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

Well Name: SGA - A.B. FISHER 3 1-26
Well Id:
Location: Sec 26 5s 37w, Cheyenne County, Kansas
License Number: 15-023-21418-00
Spud Date: Jan. 19, 2015
Surface Coordinates: 2590' FNL & 1690' FEL
Region: WILDCAT
Drilling Completed: Jan. 28, 2015

Bottom Hole
Coordinates:
Ground Elevation (ft): 3254' K.B. Elevation (ft): 3259'
Logged Interval (ft): 3980' To: 4770' Total Depth (ft): 4770'
Formation: LANSING, ARBUCKLE
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. & Associates
Address: 1515 Wynkoop, # 700
Denver, Co. 80202
Co. Geo: Clayton Camozzi

GEOLOGIST

Name: Tim Hedrick
Company: EarthTech OGL INC
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 580-754-0062



**TRIBOLITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

26/5n/37w Cheyenne KS

1515 Wynkoop St. STE 700
Denver, CO 80202

A. B. Fisher #1-26

Job Ticket: 60849 **DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2015.01.26 @ 17:05:00

GENERAL INFORMATION:

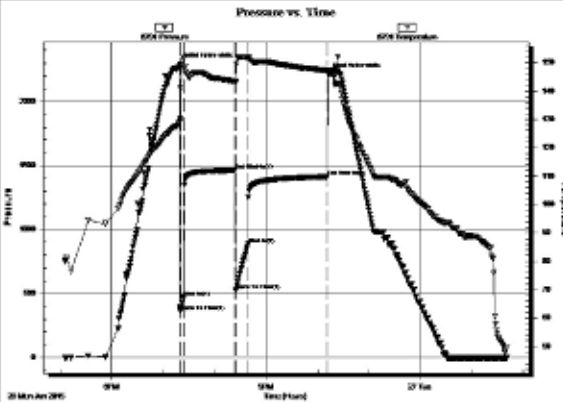
Formation: **Upper Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:19:30
 Time Test Ended: 01:41:15
 Interval: 4503.00 ft (KB) To 4544.00 ft (KB) (TVD)
 Total Depth: 4544.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 3259.00 ft (KB)
 3254.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 887.13 psig @ 4504.00 ft (KB)
 Start Date: 2015.01.26 End Date: 2015.01.27
 Start Time: 17:05:05 End Time: 01:41:15
 Capacity: 8000.00 psig
 Last Callb.: 2015.01.27
 Time On Btm: 2015.01.26 @ 19:18:45
 Time Off Btm: 2015.01.26 @ 22:12:15

TEST COMMENT: 5 - F: BOB (11") Blow in under 1 min.
 60 - IS: No blowback
 15 - FF: Blow built to BOB at 1 min.
 90 - FSI: Blow back built to BOB at 35 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2290.25	128.98	Initial Hydro-static
1	363.28	130.31	Open To Flow (1)
5	472.33	151.45	Shut-in(1)
65	1462.67	143.45	End Shut-in(1)
66	522.87	143.49	Open To Flow (2)
81	887.13	151.80	Shut-in(2)
173	1412.62	147.21	End Shut-in(2)
174	2215.48	147.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1130.00	SMCW w/trace oil 96%w, 4%m	14.75
310.00	OCGMW 35%w, 30%g, 22%m, 13%fo	4.35
185.00	OCGMW 29%w, 29%g, 28%m, 7%fo	2.60ix
125.00	GVMCO 37%g, 36%fo, 11%m, 10%w	1.75ix
155.00	GOWCM 31%m, 29%g, 20%o mix, 14%w	2.17 fo
0.00	GP = 650'	0.00

Gas Rates

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



**TRIBOLITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

26/5n/37w Cheyenne KS

1515 Wynkoop St. STE 700
Denver, CO 80202

A. B. Fisher #1-26

Job Ticket: 60850

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2015.01.27 @ 21:45:00

GENERAL INFORMATION:

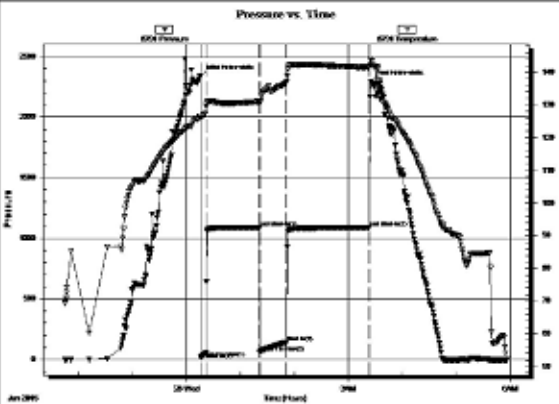
Formation: **Penn Sand #1**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:16:00
 Time Test Ended: 05:57:00
 Interval: **4624.00 ft (KB) To 4668.00 ft (KB) (TVD)**
 Total Depth: **4668.00 ft (KB) (TVD)**
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 3259.00 ft (KB)
 3254.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 144.31 psig @ 4625.00 ft (KB)
 Start Date: 2015.01.27 End Date: 2015.01.28
 Start Time: 21:45:05 End Time: 05:56:59
 Capacity: 8000.00 psig
 Last Callb.: 2015.01.28
 Time On Btm: 2015.01.28 @ 00:15:45
 Time Off Btm: 2015.01.28 @ 03:25:00

TEST COMMENT: 5 - F: Blow built to 3"
 60 - IS: No blow back
 30 - FF: Blow built to BOB (11") at 28 1/2 min.
 90 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2335.48	126.60	Initial Hydro-static
1	16.60	125.84	Open To Flow (1)
7	55.25	129.33	Shut-in(1)
66	1088.72	131.07	End Shut-in(1)
66	57.66	130.50	Open To Flow (2)
96	144.31	137.02	Shut-in(2)
188	1087.35	141.53	End Shut-in(2)
190	2291.63	143.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SWCM 97%w, 3%w	0.30
220.00	Mud 100%	2.53
0.00	Oil spots in tool	0.00

* Recovery from multiple tests

Gas Rates

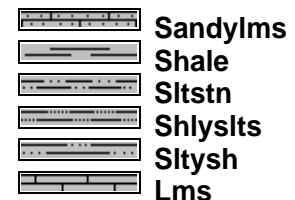
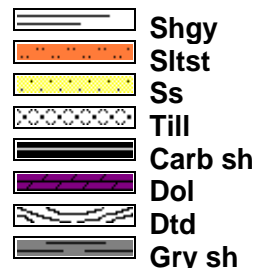
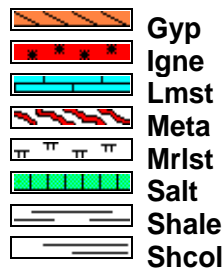
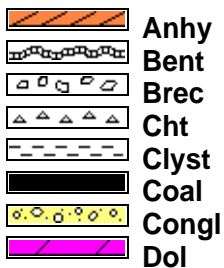
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Tribolite Testing, Inc

Ref. No: 60850

Printed: 2015.01.28 @ 19:20:20

ROCK TYPES



ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

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

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

STRINGER

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

TEXTURE

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

OTHER SYMBOLS

INTERVALS

- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

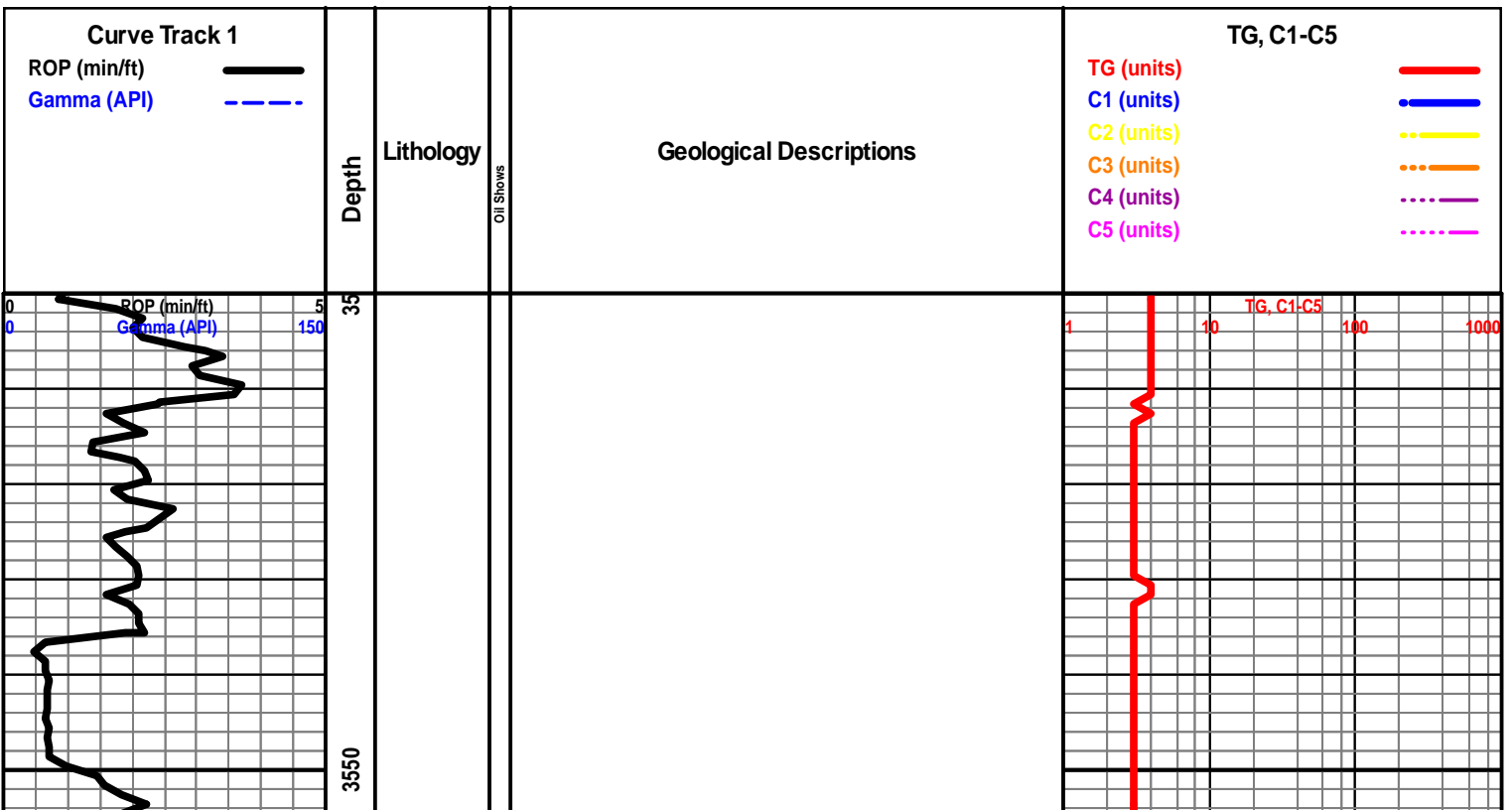
ROUNDING

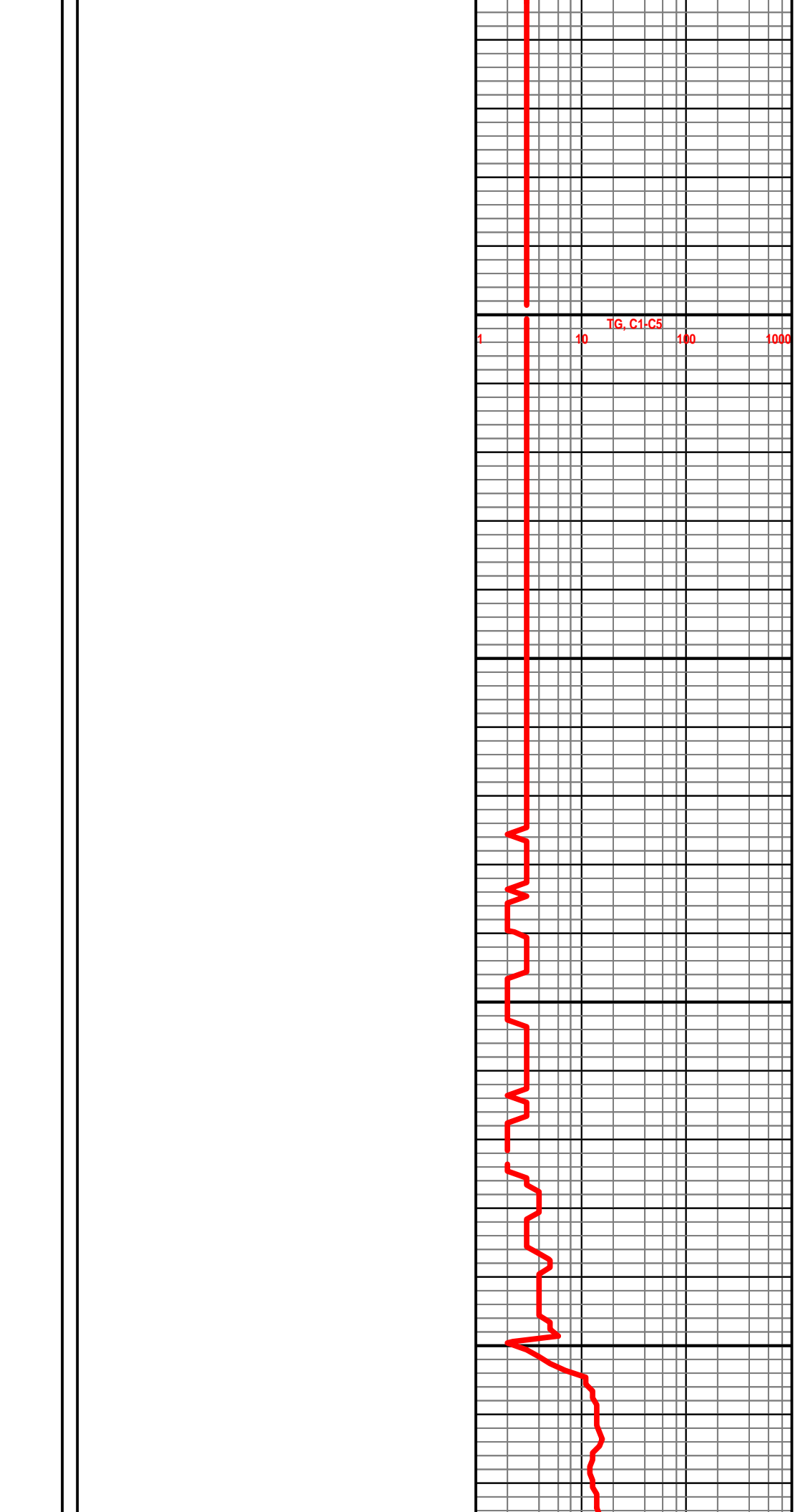
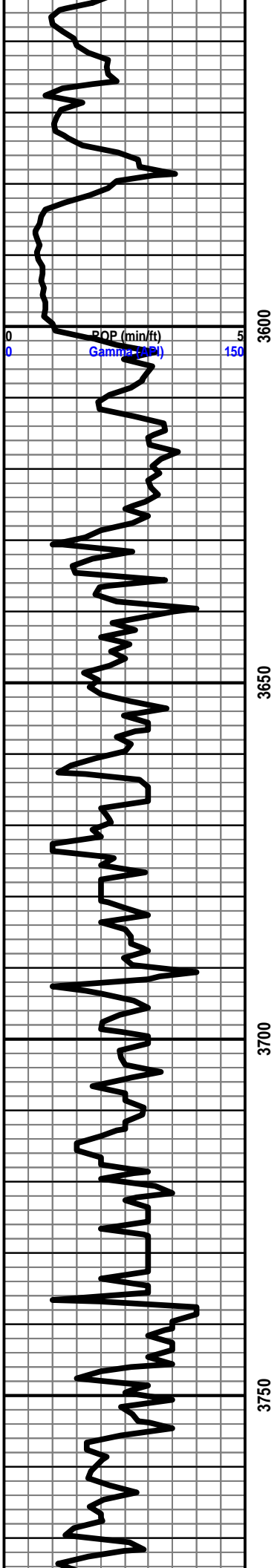
- Rounded
- Subrnd
- Subang

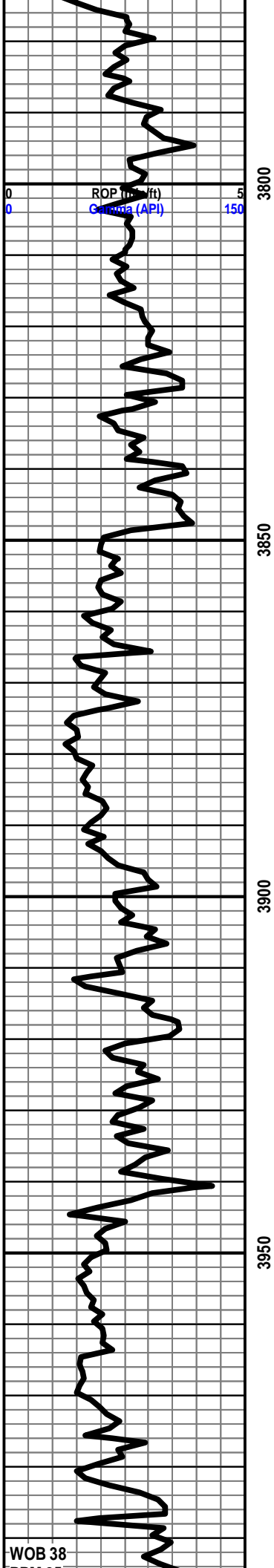
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show







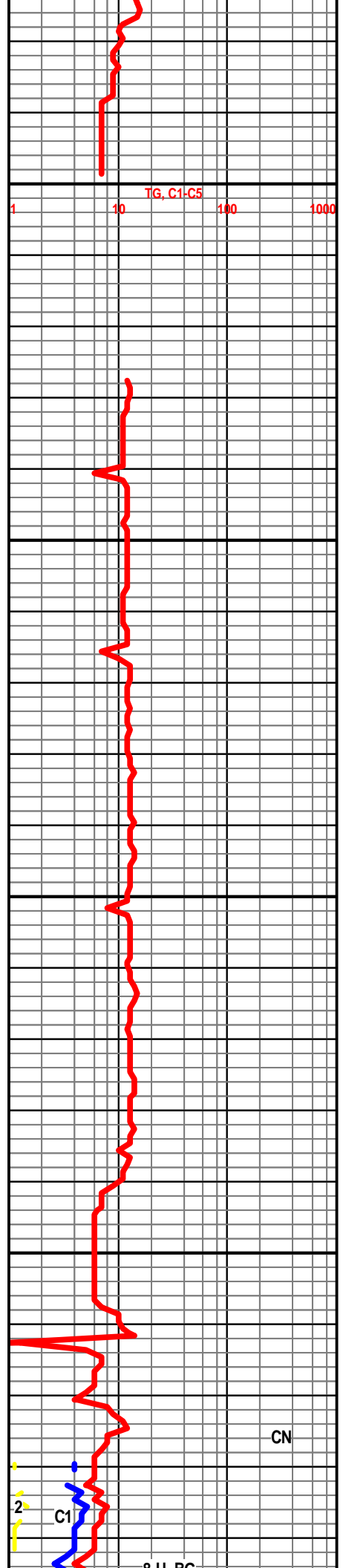
TOPEKA 3873' - 614'

BIT #2/ SMITH F-27/ RD 6326/ JETS 3-15S/ IN AT 262'

START 24 HR MANNED UNIT JAN. 24, 2014

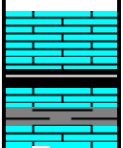
SH- BLK SFT CARB

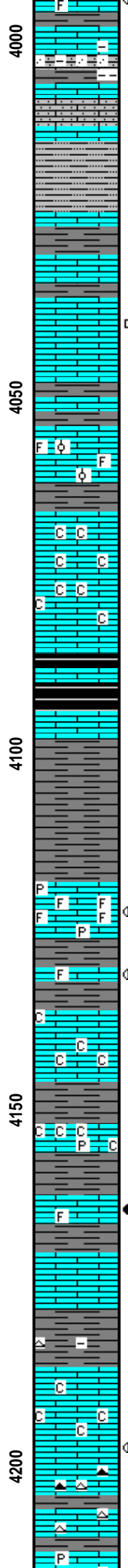
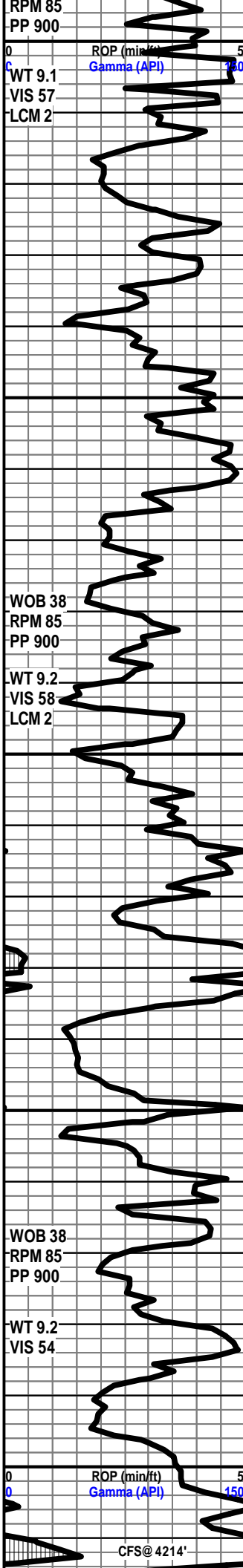
LS- LT TN BRN GY - HD DNS MD-F-XLN, RE-XLN MTRX, V/TT SUCRO IP,



CN

WOB 38





TR IMBD FRGS IP, SMLL CALC XLS IP, TR DLL YEL GLD FLO DRY, NO VIS POR, FR FL SH CUT IN 1%, NO ODOR, NO LCH ON DISH

LS- OFF WHT CRM- HD DNS TO BRITT, V/ TT SUCRO MTRX, V/ AREN TO SNDY, V/W-F-GRN QURTZ, ABDT SCAT IMBD DISS LT GYSH SCAT THRU, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- REDDISH TO REDDISH BRN- FRM BLKY , V/ GRNY TXT, V/ AREN TO SNDY THRU

SH- RDDISH BRN V/ SFT GMMY TXT TO V/ GRNY TXT

4038'-4040' LS- OFF WHT CRM BLK(DUE TO ABDT DOS) HD DNS TO BRITT IP, V/ TT SUCRO MTRX, ABDT IMBD SMLL ANG LM GRNS THRU, BRIT YEL GLD FLO IN 10%, DLL YEL GLD IN 10%, DLL YEL FLO IN 80% , SLI TR PR INTER-XLN POR IP, WK FL SH CUT IN 10%, FR SLO STRM CUT IN 30%, NO ODOR, LT TN LCH ON DISH

LS- CRM LT TN TN - HD DNS F-XLN, RE-XLN MTRX, SLI TR FOSS FRGS IMBD IP, SLI TR MICRO OOL IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- WHT OFF WHT- HD IP V/ SUCRO MTRX TO SUCRO S-CHLKY, ABDT SFT WHT CHLK THRU, LT DLL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW OR CUT

HEEBNER 4085' - 826'

SH- BLK SFT CARB

LS- CRM TN- HD DNS , F-XLN TO V/ TT SUCRO MTRX, SLI TR IMBD IMBD SFT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- RED DK REDDISH BRN- MOTT, FRM BLKY TO SFT GMMY TXT IP, TR GRNY TXT , SLI TR SLTY IP

4120-4124' LS- WHT OFF WHT CRM IP, HD DNS TO BRITT, MD-XLN RE-XLN MTRX, IMBD FOSS FRGS THRU, SLI TR SFT WHT CHLK IP, ABDT DOS SCAT THRU, TR DISS PYR IMBD IP, DLL YEL GLD FLO IN 20%, DLL YEL FLO IN 60%, TR PR INTER-XLN POR, FR FL SH CUT IN 30%, GD SLO STRM MLKY BLU CUT IN 50%, NO ODOR, BLK STN ON DISH

4131-4132' LS- TN DK BRN - HD DNS V/ TT SUCRO MTRX TO F-XLN IP, TR FREE FOSS IP, TR VRGTD DOS IP, TR FREE TARRY OIL IP, DLL YEL FLO IP, NO VIS POR, GD INST FL SH CUT, GD SLO STRM CUT, NO ODOR. BLK LCH ON DISH

LANSING 4134' - 875'

LS- WHT OFF WHT - ABDT SFT WHT CHLK , TR SUCRO S-CHLKY IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- DK GY TO BLK, FRM BLKY SMTH TXT CALC IP

LS- CRM LT TN - HD DNS F-XLN TO V/F-XLN IP GRDNG TO V/ FRM WHT CHLK , SLI TR IMBD TR PYR CLSTRS, NO FLO, NO VIS POR, NO VIS CUT OR SHOW

4163' -4165' - LS- OFF WHT CRM TN- HD DNS TO SLI BRITT IP, V/ TT SUCRO MTRX, SLI S-CHLKY, TR FOSS FRGS IP, IMBD SMLL ANG LM GRNS, DOS SCAT THRU, DLL YEL GLD FLO SCAT THRU, NO VIS POR, FR FL SH CUT THRU, FR TO GD SLO STRM CUT THRU, NO ODOR, DK TN LCH ON DISH

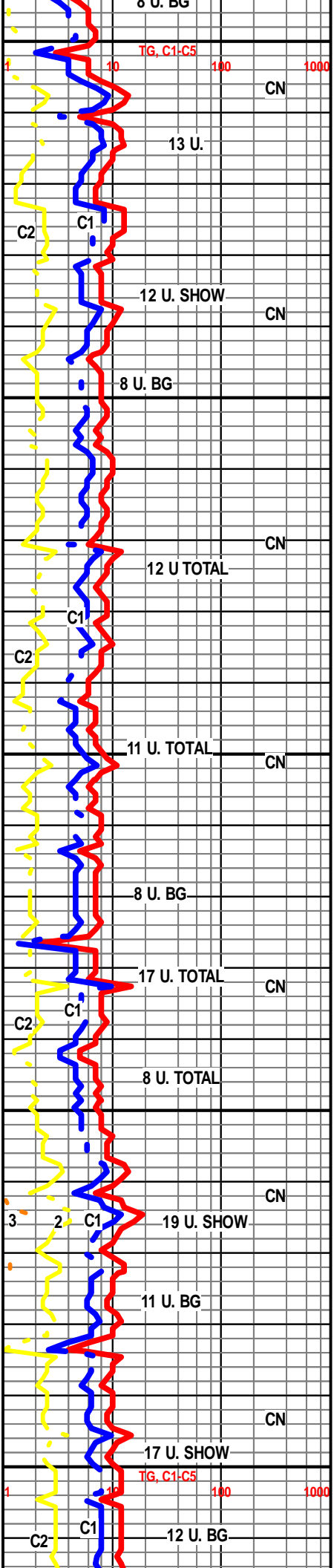
SH- REDDISH BRN - SFT GMMY TXT

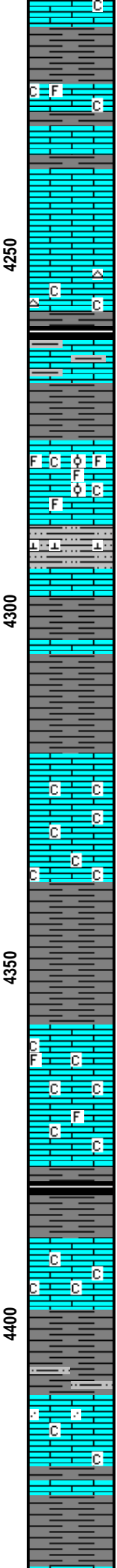
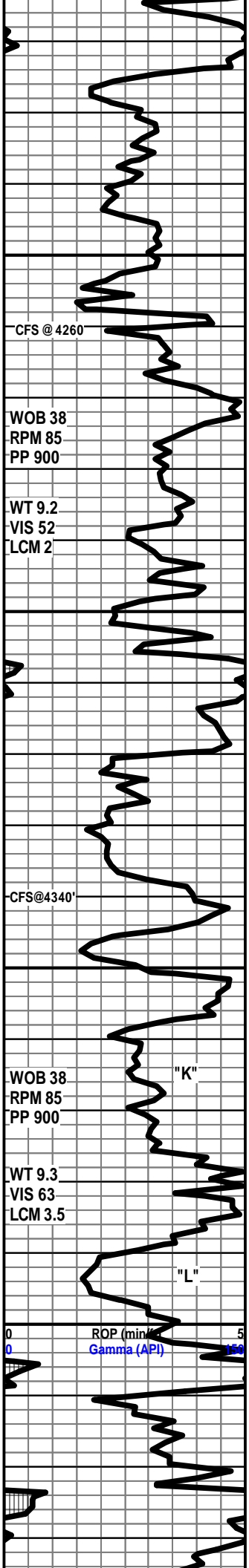
LANSING "D" 4185' - 926'

4185' - 4195' LS- CRM BFF OFF WHT - HD DNS IP MD-XLN TO SUCRO S-CHLKY TO CHLKY MTRX, ABDT FRM TO SFT WHT CHLK THRU, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

4195- 4204' LS- CRM LT TN TN - HD DNS F-VF-XLN , TT SUCRO IP, SCAT DOS IN 30%, ABDT TN WHT CRT THRU W' TR DOS STN SCAT IP, DLL YEL FLO IN 30%, NO VIS POR, FR FL SH CUT IN 10%, FR SLO STRM CUT IN 30%. NO ODOR. NO LCH ON DISH

SH- RED GRN - MOTT, FRM BLKY SMTH TXT





LS- LT TN TN - HD DNS MD-F-XLN SLI S-CHLKY IP, TR DISS PYR IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

SH- REDDISH BRN- V/ SFT GMMY TXT

LS- WHT OFF WHT V/ SUCRO S-CHLKY TO CHLKY MTRX, TR IMBD PHNTM FOSS FRGS IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LANSING "G" 4238' - 979'

4240-4244' LS- OFF WHT CRM BLK(DUE TO DOS IP), HD DNS TR BRITT, MD-F-XLN, RE-XLN MTRX, TR SUCRO IP, SLI TR IMBD CALC XLS IP, BRIT YEL GLD FLO IN 60%, PR SCAT MICRO VUG POR IN 5%, GD FL SH CUT IN 60%, GD SLO STRM CUT IN 60%, NO ODOR, LT TN LCH ON DISH

LS- WHT OFF WHT CRM , HD TO SFT , V/ SUCRO S-CHLKY TO V/ CHLKY MTRX, ABDT TN WHT REWRKD CHRT, LT BRIT YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SH- BLK SFT CARB

LS- DK TN BRN DK GY- HD DNS MOTT, V/F-CRYPTO-XLN, LMNTD GY SH IP, NO FLO, NO VIS POR, NO VIS CUT

LANSING "H" 4276' - 1017'

LS- OFF WHT CRM BFF- HD BRITT, MD-XLN, RE-XLN MTRX IMBD FOSS FRGS THRU, V/ S-CHLKY TO CHLKY IP, TR SMLL SCAT OOL IP, LT YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

SLTST- REDDISH GY- HD TT, ABDT IMBD V/V-F-QUARTZ GRNS THRU, ABDT IMBD DISS SH, CALC IP, NO FLO, NO VIS POR, FR FL SH CUT THRU, FR SLO STRM CUT THRU, NO ODOR

SH- RED TO BRNSH RED- FRM BLKY IP TO V/ SFT GMMY TXT IP

SH- PRED A/AB- RED DK RED- V/ SFT GMMY TXT THRU

LANSING "J" 4320' - 1061'

LS- WHT OFF WHT CRM- HD DNS IP - F-XLN TO BRITT V/ TT SUCRO S-CHLKY MTRX, ABDT SFT WHT CHLK IP, DLL YEL MIN FLO IP, PR VIS INTER-XLN POR IP, NO VIS CUT OR SHOW

LS- WHT OFF WHT- HD BRITT IP, V/ SUCRO S-CHLKY MTRX, ABDT SFT WHT CHLK THRU, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- RED TO DK RED- FRM BLKY IP SMTH TXT TO ABDT V/ SFT GMMY TXT

LS- CRM BFF OFF WHT- HD DNS TO BRITT, MD-XLN TO TT SUCRO MTRX, ABDT FRM TO SFT WHT CHLK SCAT THRU, TR FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB TO DK GY, V/ V/ SFT TXT

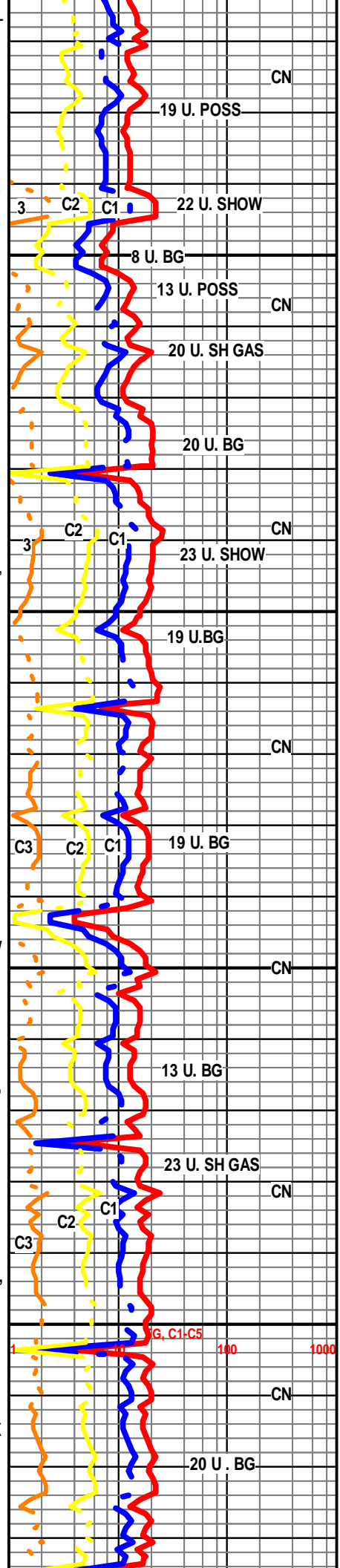
LS- WHT OFF WHT CRM- HD BRITT IP MD-XLN TO SUCRO MTRX, ABDT SFT WHT CHLK THRU, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

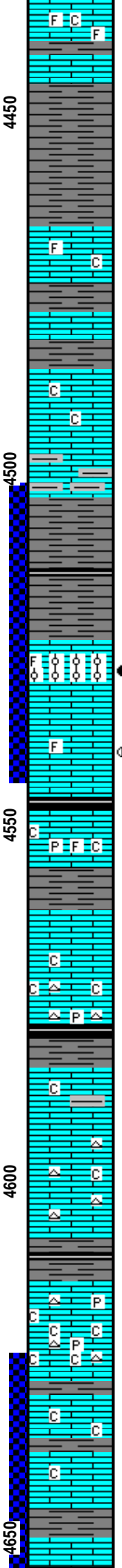
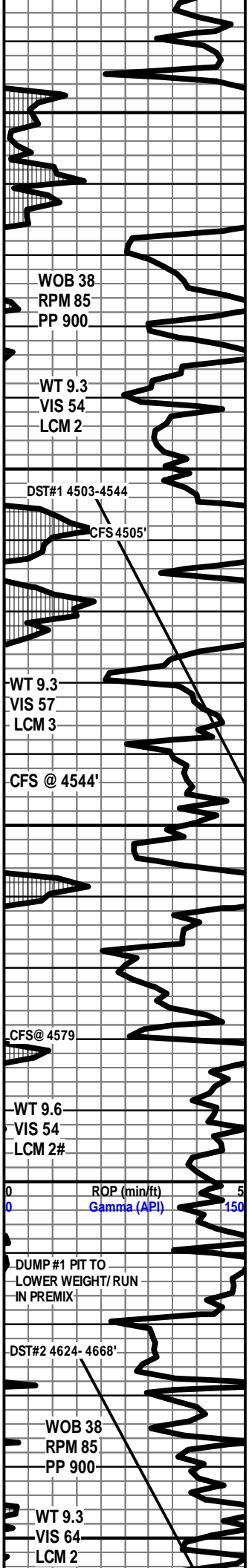
BKC 4398' - 1139'

SH- RED GY- FRM BLKY V/ GRNY TXT , SLTY IP

LS- CRM LT TN LT GY- MOTT, HD DNS, V/ TT SUCRO MTRX TO F-XLN IP, AREN IP, TR SFT WHT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- RED TO DK RED- V/ SFT GMMY TXT





LS- CRM BFF OFF WHT- HD BRITT, MD-XLN RE-XLN MTRX, TR FOSS FRGS IP, TR SUCRO TXT IP, SLI S-CHLKY IP, TR LMNTD DK GY SH IP, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

SH- BRN GY BLK- MOTT, FRM BLKY SMTH TXT, SLI CALC IP

LS- CRM BFF- HD DNS TO BRITT, MD-XLN RE-XLN MTRX, ABTD IMBD SMLL TO MD CALC XLS SCAT THRU, TR FOSS FRGS IP, SLI TR S-CHLKY IP, DLL YEL MIN FLO IP, SLI TR PR INTER-XLN POR IP, NO VIS SHOW OR CUT

LS- OFF WHT CRM LT TN- HD DNS TO BRITT IP, MD-F-XLN, RE-XLN IP, SUCRO S-CHLKY IP, HVY TR ABTD SFT WHT CHLK IP, DLL YEL MIN FLO THRU, NO VIS OR, NO VIS SHOW OR CUT

LABETTE SH 4514' - 1255'

SH- GY DK GY -FRM BLKY SMTH TXT TO BLK SFT CARB

LS- CRM LT TN TN (DUE TO LT TN OIL STN THRU) MD-XLN, RE-XLN MTRX. V/OOL & MICRO OOL THRU, OOLITES AT POINT MTRX, SCAT IMBD FOSS THRU, BRIT YEL GLD FLO THRU, FR TO TR GD INTEROOL POR IN 20%, FR VIS INTER-FOSS POR IN 10%, FR TO GD FL SH CUT IN 60%, GD SLO STRM CUT IN 100%, GD OIL ODOR

4538-4540' LS CRM LT TN (DUE TO STN IN 40%) HD DNS F- V/F-XLN RE-XLN MTRX IP, SMLL TO MD XLS. TR FOSS FRGS IP, BRIT YEL GLD FLO IN 40%, NO VIS POR, LT FL SH CUT IN 30%, GD FL SH CUT IN 40%, LT SKIM OIL IN CUP & ON ROCKS IN TRAY, FR OIL ODOR

LS- WHT OFF WHT CRM- HD IP TO SFT, V/ SUCRO S-CHLKY TO CHLKY MTRX, TR IMBD DISS SH IP, TR PHNTM FOSS IP, SLI TR DISS PYR IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT WHT CRM- HD IP TO FRM, V/ SUCRO S-CHLKY MTRX, ABTD FRM WHT CHLK THRU, TR GY REWRKED CHRT W/IMBD DISS PYR IN CHRT, IP, V/ DLL YEL FLO IP, NO VIS POR, NO VIS SHOW OR CUT

FT. SCOTT 4578' - 1319'

SH- BLK SFT CARB

LS- OFF WHT CRM TN- HD DNS TR BRITT, F-V/F-XLN SLI RE-XLN IP, TR SUCRO S-CHLKY IP, TR IMBD DISS DK GY SH IP, LT BRIT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM LT TN - HD DNS V/F-CRYPTO-XLN, TR SLI S-CHLKY IP, ABTD TN TRNSLCNT REWORKED CHRT THRU, LT BRIT YEL MIN FLO IP TO NO FLO IP, NO VIS POR, NO VIS SHOW OR CUT

CHEROKEE 4609' - 1350'

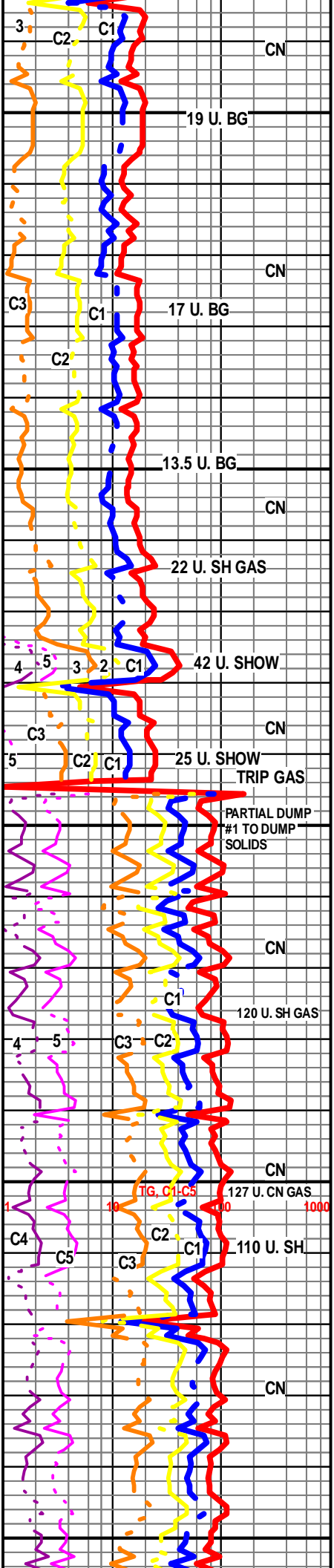
SH- GY DK GY - FRM BLKY SMTH TXT TO BLK SFT CARB

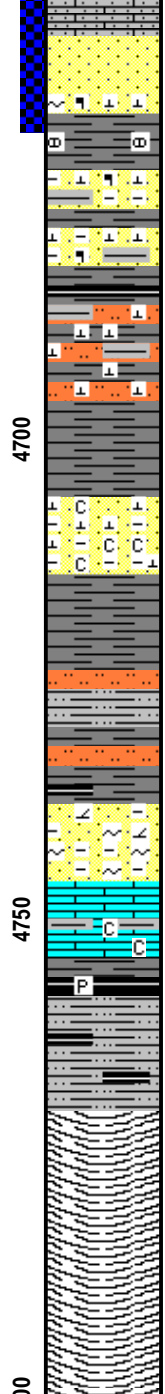
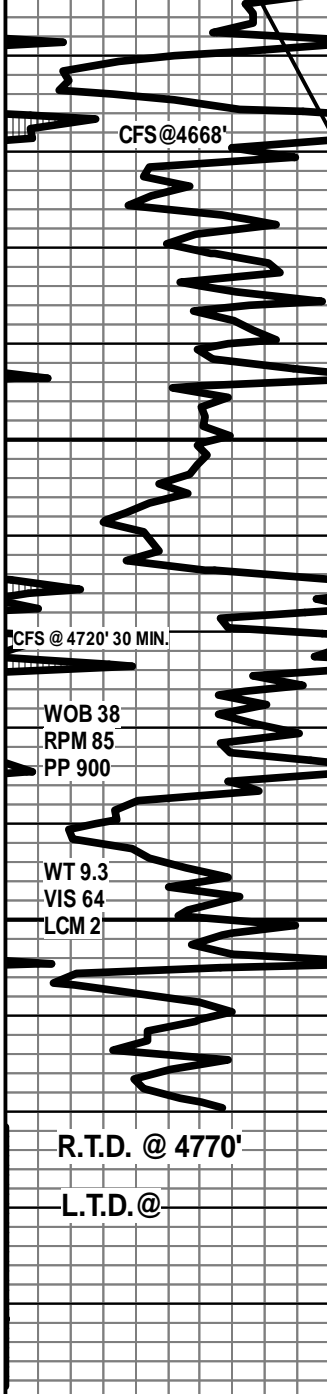
LS- CRM LT TN OFF WHT- HD DNS TO BRITT IP, F-V/F-XLN SLI RE-XN IP, SUCRO S-CHLKY, ABTD FRM CHLK IP, SMLL CALC XLS IMBD IP, TR SCAT PYR IP, TR TN GY CHRT IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM LT TN TN HD DNS TO TR BRITT, F-XLN, RE-XLN MTRX, HVY TR ABTD FRM TO SFT WHT CHLK, TR PYR CLSTRS IP, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM LT TN LT BRN- HD DNS MOTT, F-V/F-XLN, CRYPTO-XLN IP, HVY TR SFT WHT CHLK IP, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

4654 - 4661' LS- CRM BFF LT GY- HD DNS TO BRITT, V/ TT SUCRO MTRX, ABTD IMBD SMLL TO MD TR PBBLE, S-RND TO RND CLR TP FRSTY GRNS. NO FLO. NO VIS POR. ON VIS SHOW OR CUT





4661-4665' SS- CLR FRSTY- PRED UNCONSOLIDATED CLR QURTZ GRNS, MD TO PBBLE SIZED GRNS S-ANG TO S-RND, FR SRT, TR FEW SMLL CLSTRS. SIL CMNT, SMLL TO MD S-ANG TO S-RND CLR TO FRSTY QURTZ GRNS, TR HVY MIN IP, NO FLO IN 80%, BRIT YEL FLO IN 3%, LT GSSY CUT IN 8%, NO CUT WITH INDIVIDUAL GRNS, NO ODOR

4665' - 4666' SS- CLR TO FRSTY WHT- HD TT TO V. FRI, SMLL TO MD CLR S-ANG TO S-RND CLR QURTZ GRNS W/ HVY CALC CMNT, TR GLAUC, TR HVY MIN IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

4666-4668' SH- LT GRN TO LT GY- FRM BLKY SMTH WXY TXT, W/ IMBD PELT

4669 - 4682' SS- FRSTY WHT LT GY TO LT RED, HD TT TO TR FRI IP, F-MD TO CRS S-ANG TO S- RND CLR QURTZ GRNS, PR SRT, V/ CALC CMNT, ABDT IMBD LT GY TO LT RED SH IMBD THRU, NO FLO, TR PR INTER-GRN POR IP, NO VIS CUT OR SHOW

4682-4694' SLTST- REDDISH BRN GY- MOTT, ABDT V/F-F-QURTZ GRNS THRU S-RND TO RND, SCAT TR MD -S-RND CLR QURTZ GRNS, ABDT IMBD LMNTD & DISS RED AND GY SH THRU, SLI CALC IP, NO FLO, NO VIS POR, NO VIS SHOW

4706-4713' SS- WHT LT GY LT GRN- HD TT TO FRI, F-V/F-GRM. SCAT MD GRN IP, FRSTY GRNS PR SRT, S-ANG TO S-RND, V/ CALC CMNT ABDT IMBD RED & GRN SH, HVY TR SFT WHT CHLK IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

4714-4724- SH RED GRN- MOTT, FRM BLKY SMTH WXY TXT

4724-4733' - SLTST & SH INTERBEDS- GRN RED - HD TO SFT, ABDT IMBD V/F-F-CLR TO FRSTY QURTZ GRNS IP, ABDT IMBD LMNTD AND DISS MOTT RED GRN PRPLE SHALES

SS- FRSTY WHT LT GRN- HD TT TO V/ FRI, F-V/F-QURTZ GRNS, TR MD GRN IP, S-RND TO RND, CLR TO FRSTY GRNS, SIL CMNT , TR DOLO CMNT IP, ABDT IMBD DISS LT GRN SH SCAT THRU, KAOL OR GLAUC IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM BFF- HD DNS TO BRITT, F-XLN TO SUCRO SLI S-CHLKY IP, TR LMNT RED SH IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB W/ TR DISS PYR IMBD IP

SLTY SH- LT GY TO DK GY PRPLE- MOTT ,SFT V/ SLTYTXT, ABDT IMBD V/F-GRN QURTZ LMNTD BLK CARB SH IP

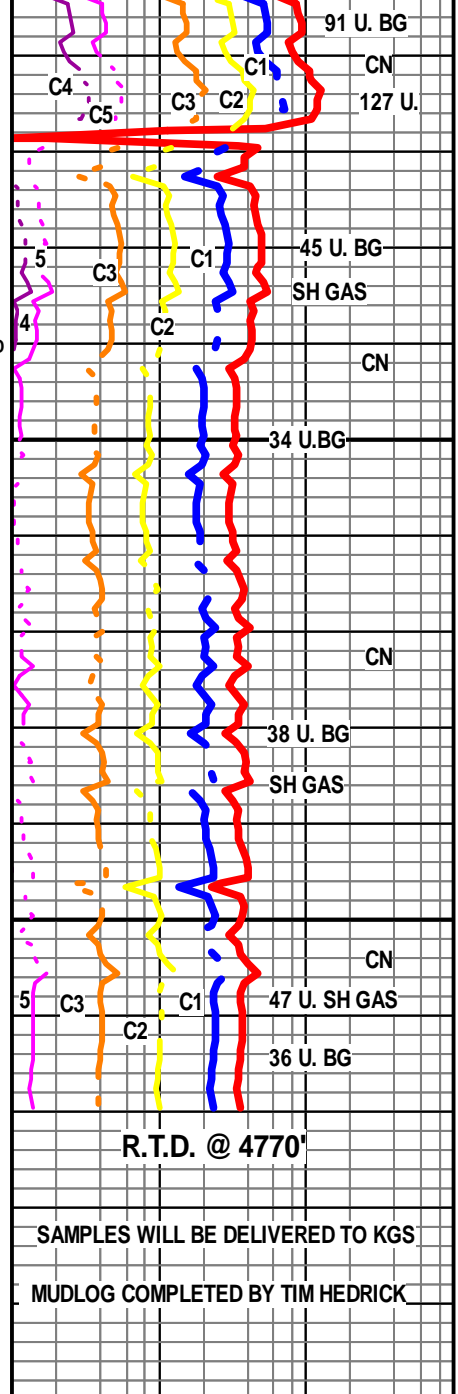
R.T.D. @ 4:19 PM. CST JAN. 28, 2015

SHORT TRIP 5 STANDS

CTCH 1.5 HRS

TOFL

WEATHERFORD/ LIBERAL



SAMPLES WILL BE DELIVERED TO KGS

MUDLOG COMPLETED BY TIM HEDRICK