

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1252061
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: _____

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> _____				
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. 1122

Date	1-20-15	Sec.	12	Twp.	4	Range	36	County	Rawlins	State	Ks	On Location		Finish	11:00 PM
------	---------	------	----	------	---	-------	----	--------	---------	-------	----	-------------	--	--------	----------

Lease Fisher Cattle Co. Well No. 2-12 Location Brewster + I-70, 22 N to HRd, 2E to SRd
Owner IN to IRd, 1E IN 1/2 E into 3/4 N to tanks

Contractor Murfin 8
To Quality Oilwell Cementing, Inc. w to Rig
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Surface
Hole Size 12 1/4" T.D. 302' Charge To Sam Gacy Jr. & Associates

Csg. Depth 302' Street
Tbg. Size Depth City State

Tool Depth
Cement Left in Csg. 15' Shoe Joint 15' The above was done to satisfaction and supervision of owner agent or contractor.
Cement Amount Ordered 250 sk Common 3% CC

Meas Line Displace 18 1/4 BCS 2 1/2 Gel 1/2 # Flo seal
Common 250

EQUIPMENT

Pumptrk	<u>20</u>	No.	Cementer	<u>Billy</u>	<u>Taylor</u>	Poz. Mix
			Helper			
Bulktrk	<u>19</u>	No.	Driver	<u>Doug</u>		Gel. <u>5</u>
			Driver			
Bulktrk	<u>p.u</u>	No.	Driver	<u>Rick</u>		Calcium <u>9</u>
			Driver			

JOB SERVICES & REMARKS

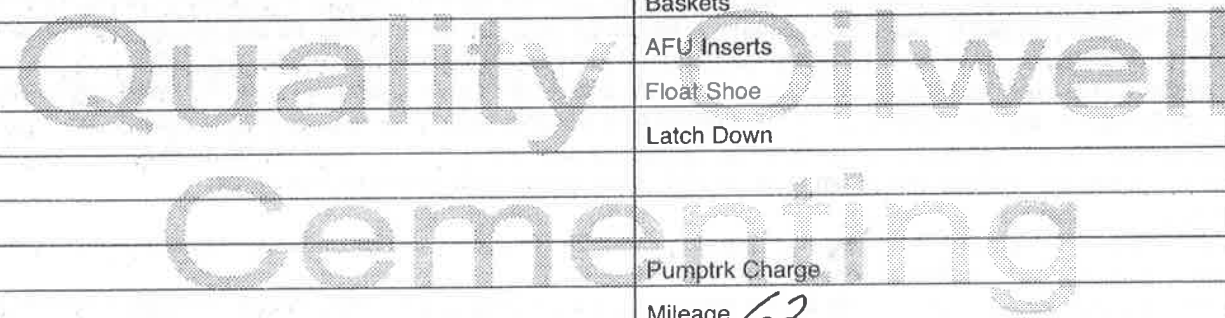
Remarks	<u>Cement did Circulate</u>	Hulls
Rat Hole		Salt
Mouse Hole		Flowseal <u>125 #</u>
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
		Sand
		Handling <u>264</u>
		Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	<u>1</u>
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge		Tax
Mileage <u>62</u>		Discount
		Total Charge

Signature Travis W. Murfin



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. 915

Date	1-30-15	Sec.	12	Twp.	4	Range	36	County	Rawlins	State	KS	On Location		Finish	12:00 PM
								Location Brewster 23 N to Rd H 1E 1N 2E Nint							

Lease	Fisher Cattle Co	Well No.	2-12	Owner	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	Murfin # 8			Charge To	Sam Gary Jr & Associates										
Type Job	Production String	T.D.	4991'	Street											
Hole Size	7 7/8	Depth	4983'	City											
Csg.	5 1/2	Depth		State											
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.											
Tool		Depth		Cement Amount Ordered	450 80/20 QMDC 3% cc 1/2 flo										
Cement Left in Csg.	30.37	Shoe Joint	30.37	3% pro-c	205 Q-pro-c 10% Salt 5% Gilscribe										
Meas Line		Displace	118 bbl	Common	205 Q-pro-c 1/4 flo										

EQUIPMENT

Pumptrk	18	No.	Cementer	Brett	Cody	Poz-Mix	450 Qmdc 1/2 flo									
Bulktrk	19	No.	Helper			Gel.	5									
Bulktrk	15	No.	Driver	Dow		Calcium	5									
			Driver	Tyler		KCL	2 gal									

JOB SERVICES & REMARKS

Remarks:															
Rat Hole	- 30sx	Flowseal	276#												
Mouse Hole	- 13sx	Kol-Seal	1025												
Centralizers	- 1,3,5,7,9,11,13,15,17,19,50,70,	Mud CLR 48	- 500 Gal												
Baskets	- 8,50,70,93,105	GFL-117 or CD110 CAF 38	20 bbl KCL												
D/V or Port Collar		Sand													
		Handling	695												
Ran 4983' 5 1/2 casing + Est circulation		Mileage	5 1/2												
Dropped ball		FLOAT EQUIPMENT													
Mixed 500 gal Mud Flush		Guide Shoe													
Plugged Rat & Mouse hole		Centralizer	- 14												
Mixed 405 sx QMDC followed by		Baskets	- 5												
205 sx of Q-Pro-C		AFU Inserts													
Displaced 114 bbl w/ 1st 20 bbl KCL		Float Shoe	- 1												
		Latch Down	- 1												
Lift pressure @ 1600 lbs		Pumptrk Charge	prod string												
Landed @ 2200 lbs		Mileage	62												

X Signature	Tax	
	Discount	
	Total Charge	



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr. & Assc.
1515 Wynkoop, Ste 700
Denver Co, 80202
ATTN: Chris Micheal

12-4S-36W

Fisher Cattle #2-12

Job Ticket: 61085 **DST#: 1**
Test Start: 2015.01.24 @ 21:09:00

GENERAL INFORMATION:

Formation: **Douglas & Lans. 'A'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:40:45
Time Test Ended: 06:14:45
Interval: **4144.00 ft (KB) To 4204.00 ft (KB) (TVD)**
Total Depth: 4204.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54
Reference Elevations: 3291.00 ft (KB)
3288.00 ft (CF)
KB to GR/CF: 3.00 ft

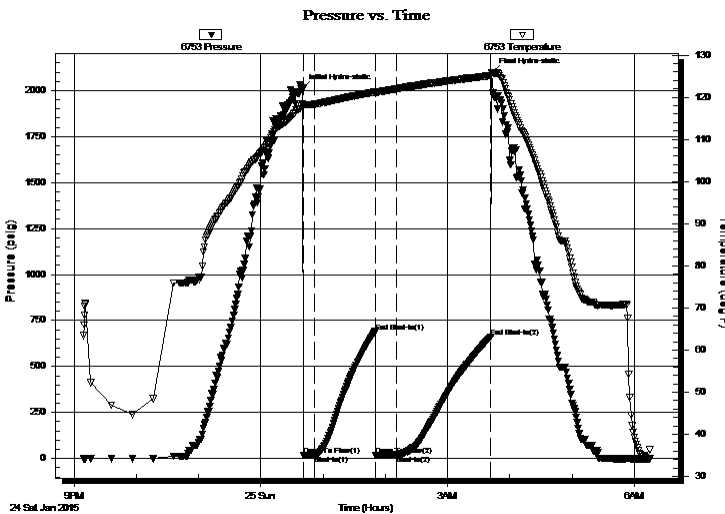
Serial #: 6753

Outside

Press @ RunDepth: 19.69 psig @ 4145.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.01.24 End Date: 2015.01.25 Last Calib.: 2015.01.25
Start Time: 21:09:05 End Time: 06:14:45 Time On Btm: 2015.01.25 @ 00:40:15
Time Off Btm: 2015.01.25 @ 03:42:45

TEST COMMENT: 10 - IF - Surface blow built up to 1"
60 - ISI - No Return
20 - FF - No Surface blow
90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.14	118.53	Initial Hydro-static
1	17.60	118.02	Open To Flow (1)
12	18.65	118.33	Shut-In(1)
70	689.66	121.24	End Shut-In(1)
70	18.20	120.79	Open To Flow (2)
90	19.69	121.96	Shut-In(2)
182	659.57	125.12	End Shut-In(2)
183	2098.55	125.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & Assc.

12-4S-36W

1515 Wynkoop, Ste 700
Denver Co, 80202

Fisher Cattle #2-12

Job Ticket: 61085

DST#: 1

ATTN: Chris Micheal

Test Start: 2015.01.24 @ 21:09:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - 100M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

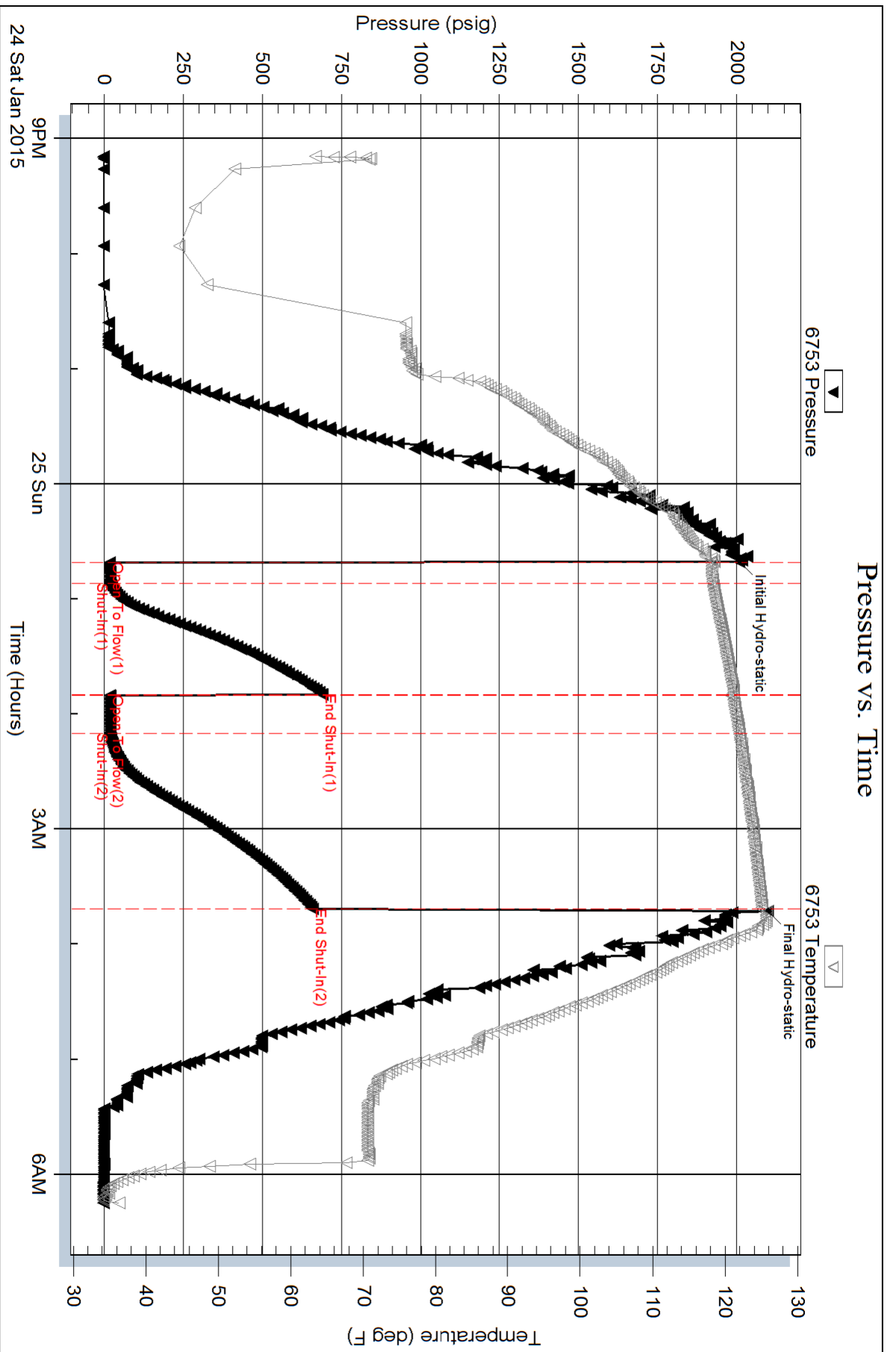
Num Gas Bombs: 0

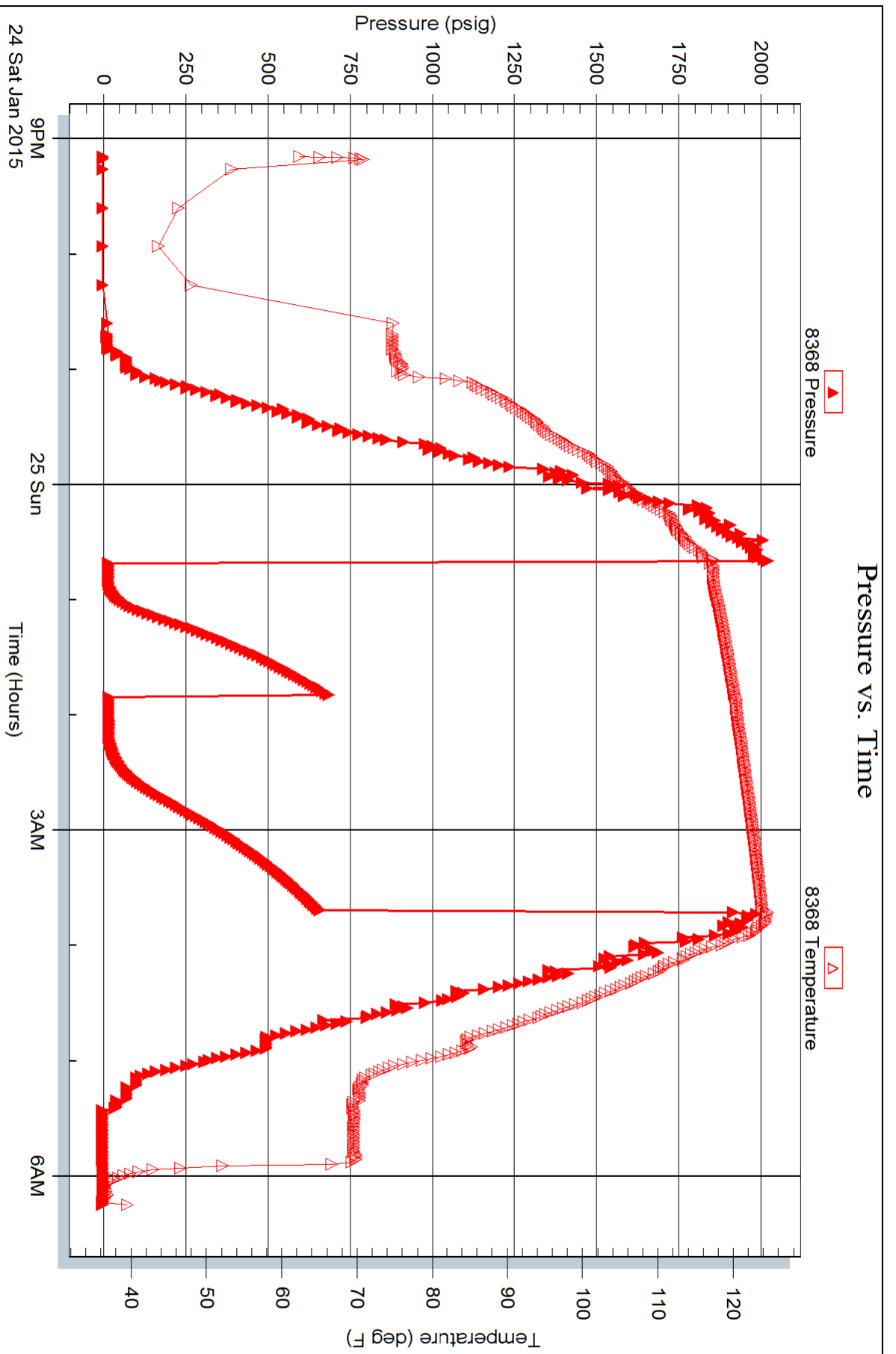
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr. & Assc.
 1515 Wynkoop, Ste 700
 Denver Co, 80202
 ATTN: Chris Micheal

12-4S-36W
Fisher Cattle #2-12
 Job Ticket: 61086 **DST#: 2**
 Test Start: 2015.01.25 @ 21:37:00

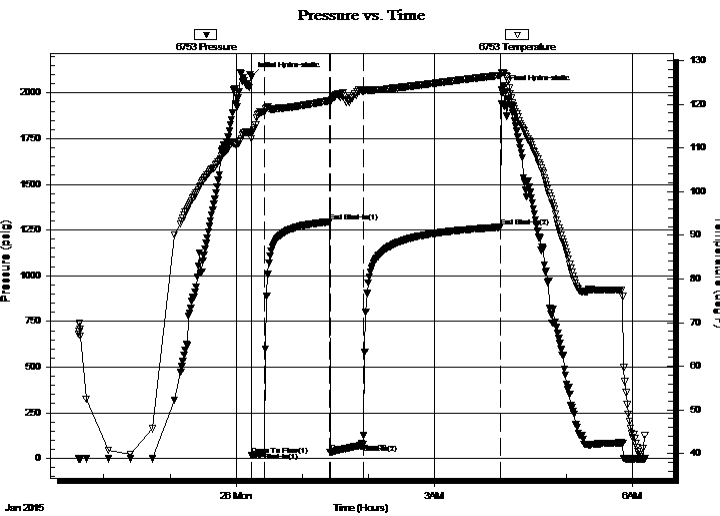
GENERAL INFORMATION:

Formation: **Lans. - 'F & G'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:14:00 Tester: Royal Fisher
 Time Test Ended: 06:10:45 Unit No: #54
 Interval: **4257.00 ft (KB) To 4300.00 ft (KB) (TVD)** Reference Elevations: 3291.00 ft (KB)
 Total Depth: 4300.00 ft (KB) (TVD) 3288.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 3.00 ft

Serial #: 6753 Outside

Press@RunDepth: 77.81 psig @ 4258.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.25 End Date: 2015.01.26 Last Calib.: 2015.01.26
 Start Time: 21:37:05 End Time: 06:10:45 Time On Btm: 2015.01.26 @ 00:13:45
 Time Off Btm: 2015.01.26 @ 04:01:15

TEST COMMENT: 10 - IF - Surface blow built to 2"
 60 - ISI - No Return
 30 - FF - Surface blow built to 2"
 120 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.46	113.63	Initial Hydro-static
1	16.70	112.17	Open To Flow (1)
12	31.82	118.10	Shut-In(1)
71	1294.70	120.80	End Shut-In(1)
72	33.34	120.34	Open To Flow (2)
102	77.81	122.90	Shut-In(2)
226	1265.88	126.62	End Shut-In(2)
228	2016.96	127.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Mud - 100M	0.39

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & Assc.

12-4S-36W

1515 Wynkoop, Ste 700
Denver Co, 80202

Fisher Cattle #2-12

Job Ticket: 61086

DST#: 2

ATTN: Chris Micheal

Test Start: 2015.01.25 @ 21:37:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
80.00	Mud - 100M	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

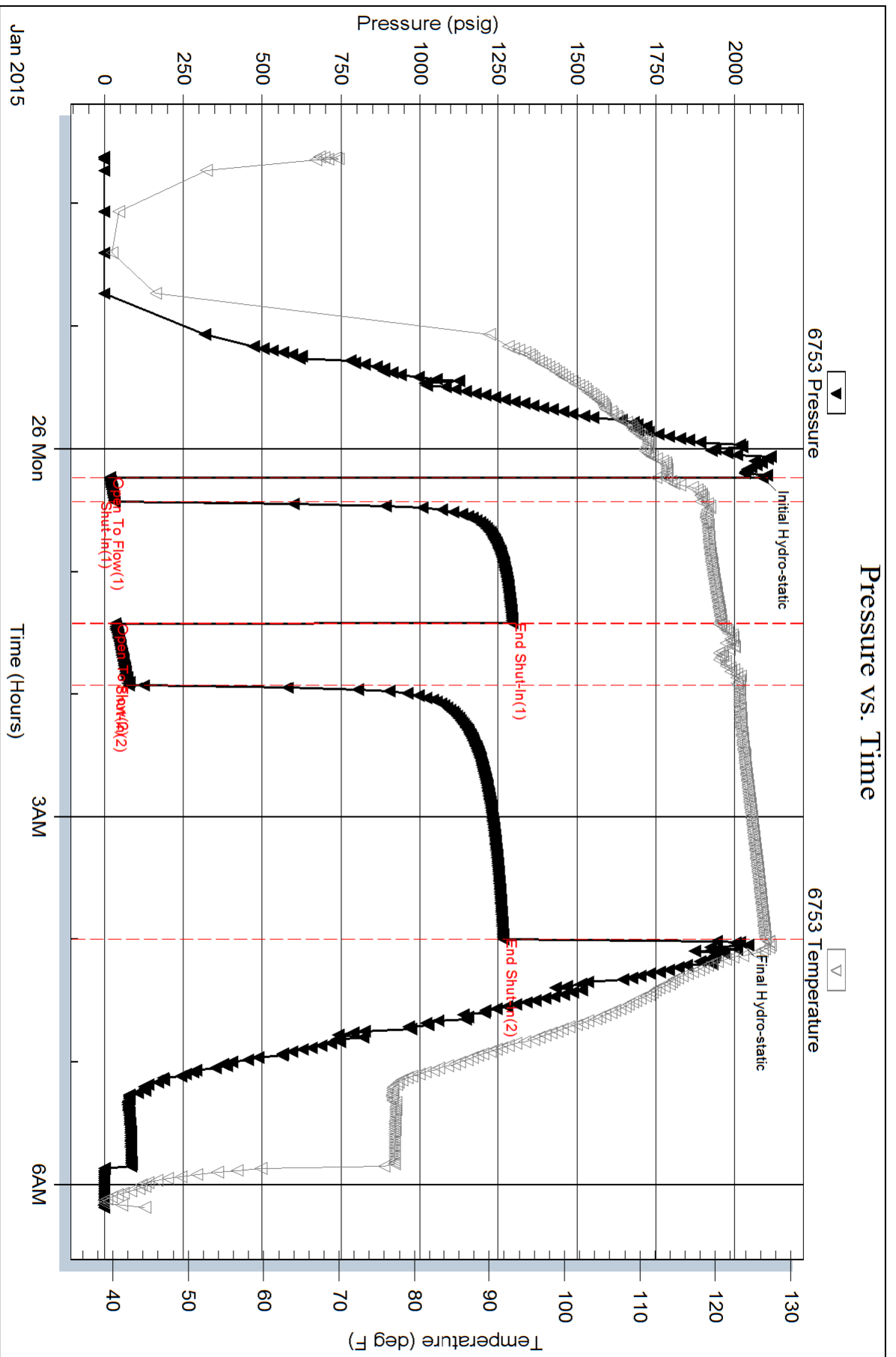
Num Gas Bombs: 0

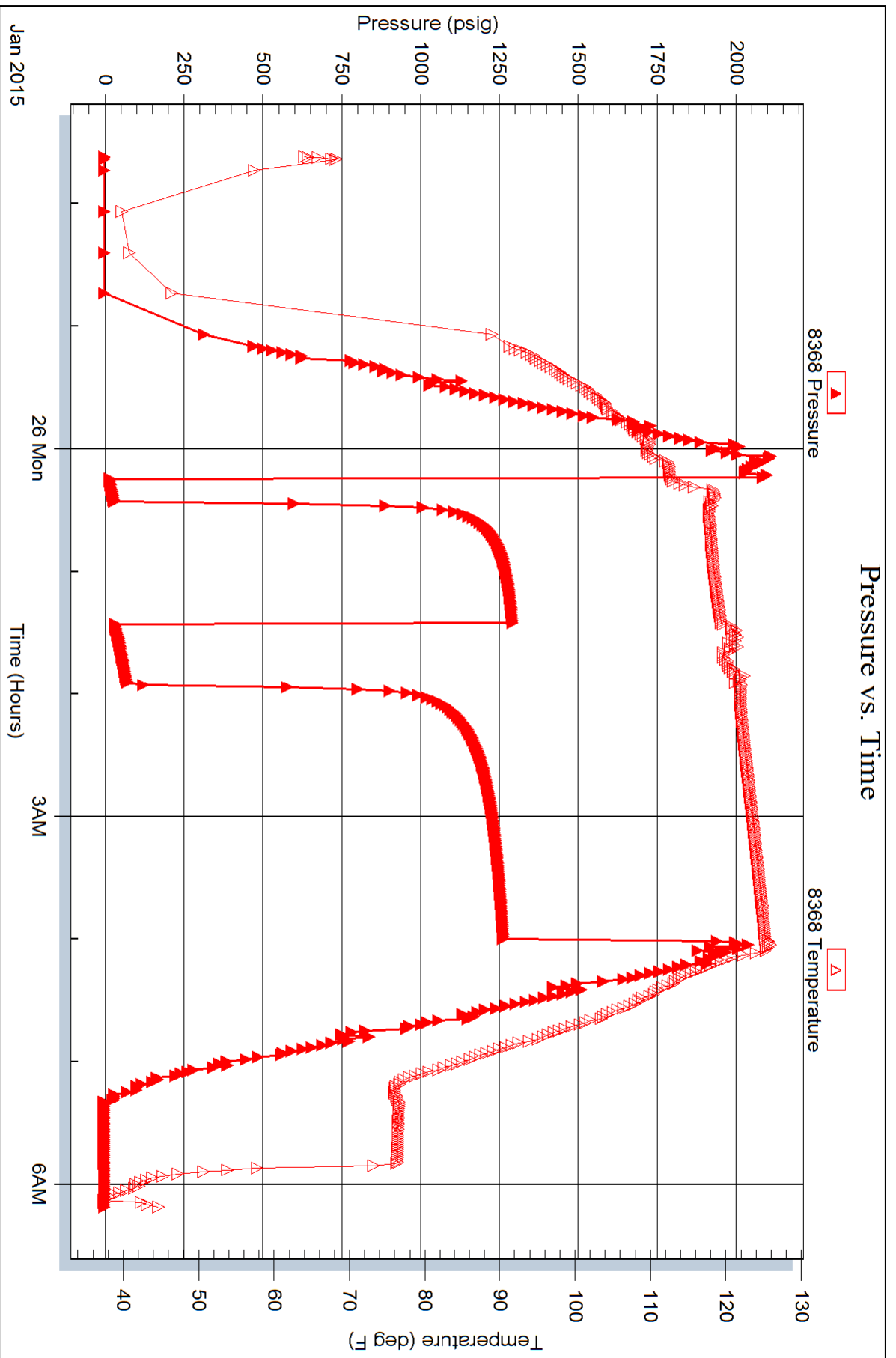
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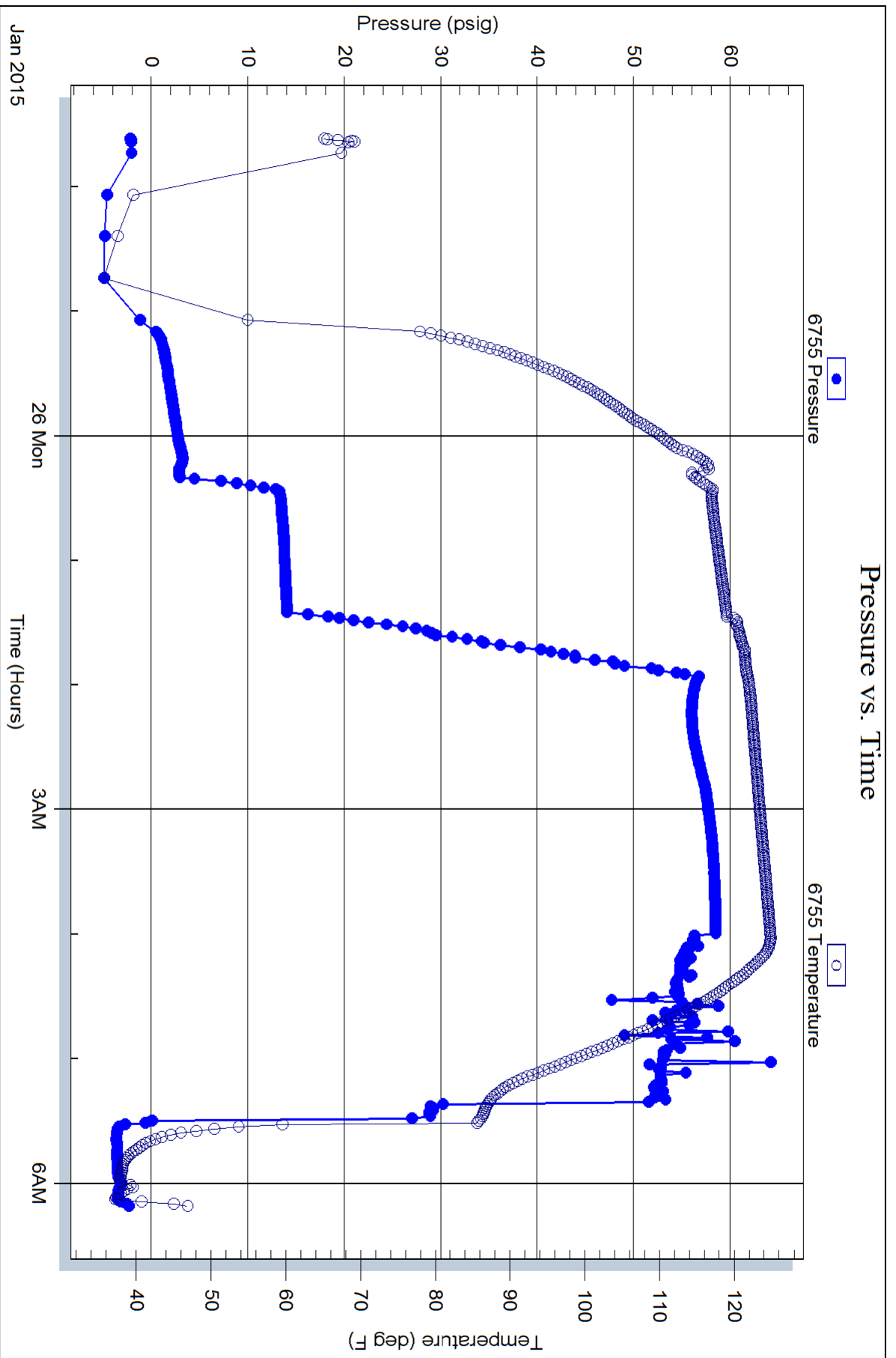
Laboratory Name:

Laboratory Location:

Recovery Comments:









**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary Jr. & Assc.

12-4S-36W

1515 Wynkoop, Ste 700
Denver Co, 80202

Fisher Cattle #2-12

Job Ticket: 61087

DST#: 3

ATTN: Chris Micheal

Test Start: 2015.01.27 @ 18:02:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:14:15

Time Test Ended: 02:12:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4537.00 ft (KB) To 4582.00 ft (KB) (TVD)

Reference Elevations: 3291.00 ft (KB)

Total Depth: 4582.00 ft (KB) (TVD)

3288.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 3.00 ft

Serial #: 6753 Outside

Press@RunDepth: 31.85 psig @ 4538.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.27 End Date: 2015.01.28

Last Calib.: 2015.01.28

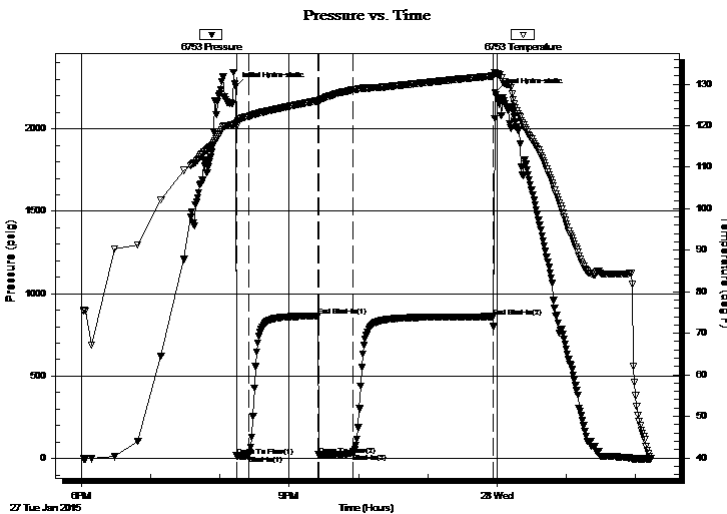
Start Time: 18:02:05 End Time: 02:12:44

Time On Btm: 2015.01.27 @ 20:13:45

Time Off Btm: 2015.01.27 @ 23:58:15

TEST COMMENT: 10 - IF - Surface blow built up to 1"
60 - ISI - No Return
30 - FF - Surface blow built up to 1 3/4"
120 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.61	120.53	Initial Hydro-static
1	16.62	119.89	Open To Flow (1)
11	19.20	122.22	Shut-In(1)
71	865.32	125.96	End Shut-In(1)
72	22.07	125.56	Open To Flow (2)
102	31.85	128.59	Shut-In(2)
223	860.98	131.94	End Shut-In(2)
225	2218.96	132.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM - 50M - 50o	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & Assc.

12-4S-36W

1515 Wynkoop, Ste 700
Denver Co, 80202

Fisher Cattle #2-12

Job Ticket: 61087

DST#: 3

ATTN: Chris Micheal

Test Start: 2015.01.27 @ 18:02:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM - 50M - 50o	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

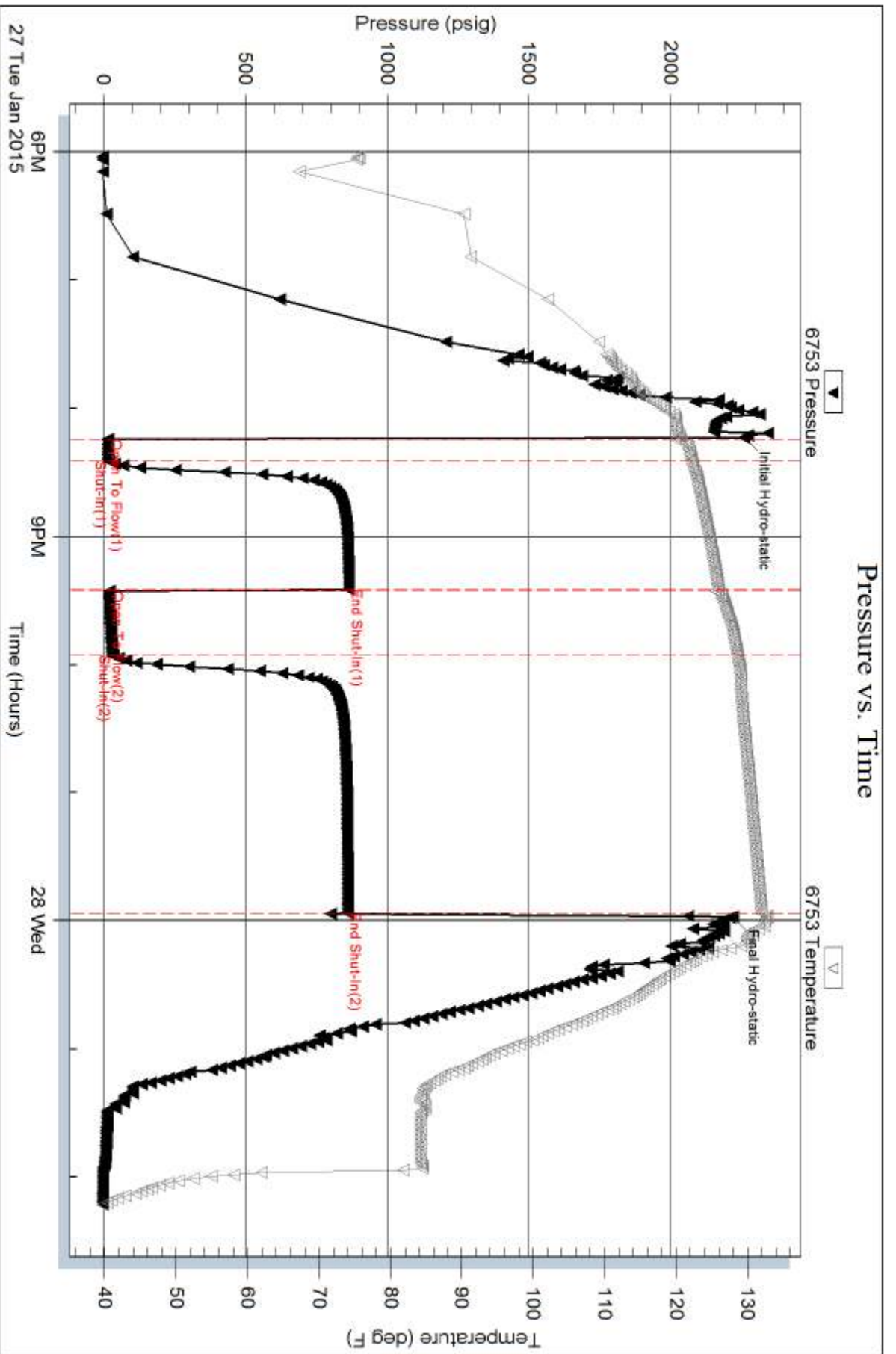
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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

Well Name: FISHER CATTLE CO 2-12
Well Id:
Location: SEC. 12-4S-36W RAWLINS COUNTY, KANSAS
License Number: 15-153-21096-0000 Region: WILDCAT
Spud Date: JAN 20, 2015 Drilling Completed: JAN 20, 2015
Surface Coordinates: 980 FSL/ 2570 FEL

Bottom Hole
Coordinates:
Ground Elevation (ft): 3287' K.B. Elevation (ft): 4720'
Logged Interval (ft): 4050' To: 4991' Total Depth (ft): 4991'
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 Wynkoop, Ste. # 700
Denver, Colo. 80202
Geo: Clayton Camozzi

GEOLOGIST

Name: Schuyler Hedrick/Blake Ward
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 580-754-0231



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr. & Assoc.

12-4S-36W

1515 Wynkoop, Ste 700
Denver Co, 80202

Fisher Cattle #2-12

Job Ticket: 61085 DST#: 1

ATTN: Chris Micheal

Test Start: 2015.01.24 @ 21:09:00

GENERAL INFORMATION:

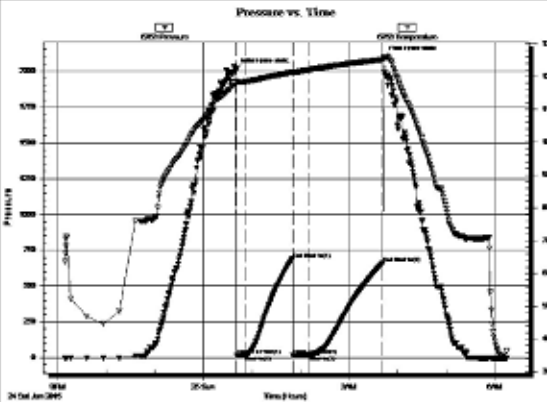
Formation: **Douglas & Lans, 'A'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:40:45
 Time Test Ended: 06:14:45
 Interval: **4144.00 ft (KB) To 4204.00 ft (KB) (TVD)**
 Total Depth: **4204.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 3291.00 ft (KB)
 3288.00 ft (CF)
 KB to GR/CF: 3.00 ft

Serial #: 6753

Outside

Press@RunDepth: 19.69 psig @ 4145.00 ft (KB)
 Start Date: 2015.01.24 End Date: 2015.01.25
 Start Time: 21:09:05 End Time: 06:14:45
 Capacity: 8000.00 psig
 Last Callb.: 2015.01.25
 Time On Btm: 2015.01.25 @ 00:40:15
 Time Off Btm: 2015.01.25 @ 03:42:45

TEST COMMENT: 10 - IF - Surface blow built up to 1"
 60 - ISI - No Return
 20 - FF - No Surface blow
 90 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.14	118.53	Initial Hydro-static
1	17.60	118.02	Open To Flow (1)
12	18.65	118.33	Shut-in(1)
70	689.66	121.24	End Shut-in(1)
70	18.20	120.79	Open To Flow (2)
90	19.69	121.96	Shut-in(2)
182	659.57	125.12	End Shut-in(2)
183	2098.55	125.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr. & Assoc.

12-4S-36W

1515 Wynkoop, Ste 700
Denver Co, 80202

Fisher Cattle #2-12

Job Ticket: 61086 DST#: 2

ATTN: Chris Micheal

Test Start: 2015.01.25 @ 21:37:00

GENERAL INFORMATION:

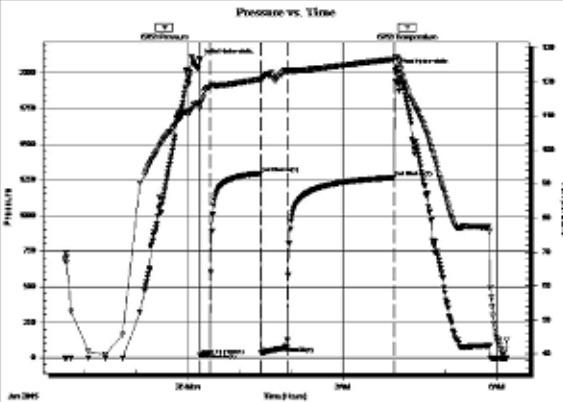
Formation: **Lans. - 'F & G'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:14:00
 Time Test Ended: 06:10:45
 Interval: **4257.00 ft (KB) To 4300.00 ft (KB) (TVD)**
 Total Depth: **4300.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 3291.00 ft (KB)
 3288.00 ft (CF)
 KB to GR/CF: 3.00 ft

Serial #: 6753

Outside

Press@RunDepth: 77.81 psig @ 4258.00 ft (KB)
 Start Date: 2015.01.25 End Date: 2015.01.26
 Start Time: 21:37:05 End Time: 06:10:45
 Capacity: 8000.00 psig
 Last Callb.: 2015.01.26
 Time On Btm: 2015.01.25 @ 00:13:45
 Time Off Btm: 2015.01.26 @ 04:01:15

TEST COMMENT: 10 - IF - Surface blow built to 2"
 60 - IS - No Return
 30 - FF - Surface blow built to 2"
 120 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.46	113.63	Initial Hydro-static
1	16.70	112.17	Open To Flow (1)
12	31.82	118.10	Shut-in(1)
71	1294.70	120.80	End Shut-in(1)
72	33.34	120.34	Open To Flow (2)
102	77.81	122.90	Shut-in(2)
226	1265.88	126.62	End Shut-in(2)
228	2016.96	127.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Mud - 100M	0.39

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr. & Assoc.
1515 Wynkoop, Ste 700
Denver Co, 80202
ATTN: Chris Micheal

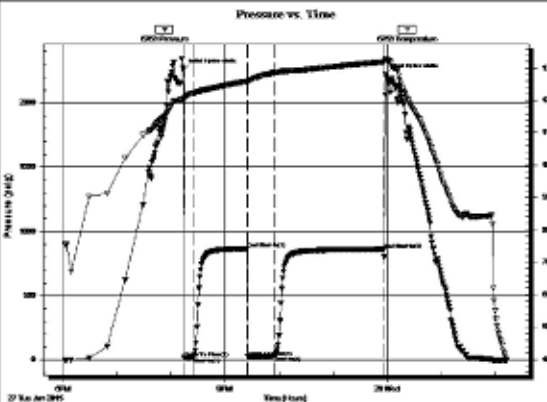
12-4S-36W
Fisher Cattle #2-12
Job Ticket: 61087 **DST#: 3**
Test Start: 2015.01.27 @ 18:02:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:14:15
Time Test Ended: 02:12:45
Interval: 4537.00 ft (KB) To 4582.00 ft (KB) (TVD)
Total Depth: 4582.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54
Reference Elevations: 3291.00 ft (KB)
3288.00 ft (CF)
KB to GR/CF: 3.00 ft

Serial #: 6753 Outside
Press@RunDepth: 31.85 psig @ 4538.00 ft (KB)
Start Date: 2015.01.27 End Date: 2015.01.28
Start Time: 18:02:05 End Time: 02:12:44
Capacity: 8000.00 psig
Last Callb.: 2015.01.28
Time On Btm: 2015.01.27 @ 20:13:45
Time Off Btm: 2015.01.27 @ 23:58:15

TEST COMMENT: 10 - IF - Surface blow built up to 1"
60 - ISI - No Return
30 - FF - Surface blow built up to 1 3/4"
120 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.61	120.53	Initial Hydro-static
1	16.62	119.89	Open To Flow (1)
11	19.20	122.22	Shut-in(1)
71	865.32	125.96	End Shut-in(1)
72	22.07	125.56	Open To Flow (2)
102	31.85	128.59	Shut-in(2)
223	860.98	131.94	End Shut-in(2)
225	2218.96	132.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM - 50M - 50o	0.10

Gas Rates

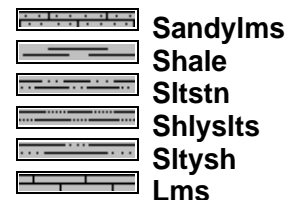
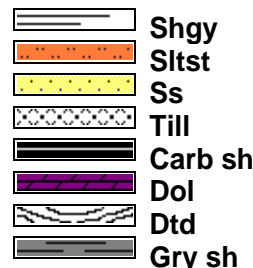
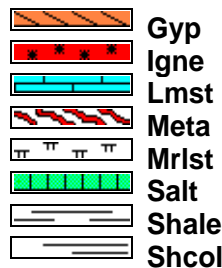
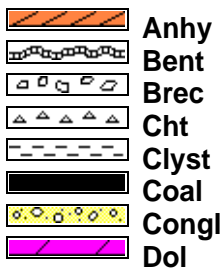
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

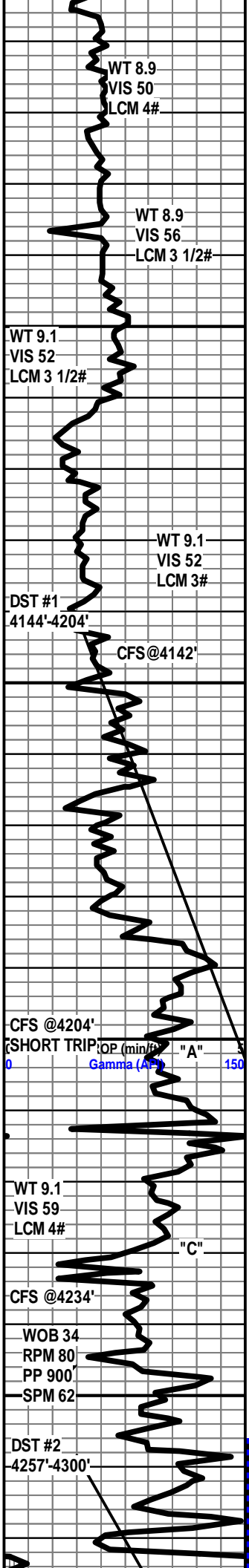
Trilobite Testing, Inc

Ref. No: 61087

Printed: 2015.01.28 @ 03:26:35

ROCK TYPES





DISS PYR,

4062'-4064' LS- CRM TO OFF WHT (W BLK OIL STN IN 40%) HD DNS TO TR BR TT IP, F-XLN RE-XLN, HVY TR IMBD SM CLR QRTZ GRNS THRU, IMBD SFT WHT CHLK IP, TR IMBD SM FOSS FRGS, DLL YEL FLO IN 20%, TR SPTTD BRI YEL GLD FLO IP, V/PR TO PR INTER-XLN POR IN 1%, FR FL SH CUT, GD SLW STRM IN 30%, LT TN LCH ON DISH, NO OIL ODOR

LS- LT TN TO TN CRM IP, HD DNS, V/F-XLN, TR INTER-BD SH IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- RD TO GRN GY MOTT, FRM TO SFT IP, BLCKY SMTH TXT, TR INTER-BD LS

SH- BLK SFT CARB

SH- RD TO DK RD GRN GY MOTT, SFT TO FRM IP, BLCKY SLTY TXT, TR PYR CLSTRS

4126'-4129' LS- OFF WHT TO WHT CLR (W BLK TAR STN SCAT IN 30%), HD DNS, V/RE-XLN MTRX, F-XLN IP, ABTD IMBD CALC-XLS THRU, DLL YEL FLO IN 20%, PR INTER-XLN POR IN 2%, TR FR INTER-XLN POR IP, FR TO PR FL SH CUT FR SLW STRM IN 20%, LT TN LCH ON DISH, NO OIL ODOR

HEEBNER 4144' (-852')

4165'-4167' LS- CRM TO LT GY (DK TN TO BRN OIL STN SCAT IN 30-40%), HD DNS TO BR TT, MD-XLN RE-XLN S-CHLKY, IMBD LM GRNS SCAT THRU, TR IMBD GY SH, YEL GLD TO BRI YEL GLD FLO IN 50-60%, PR INTER-XLN POR IN 3%, FR INTER-XLN POR IN 2%, GD FL SH CUT, GD SLW STRMS THRU, TN TO DK TN LCH ON DISH

LANSING 4192' (-900')

4195'-4197' LS-CRM TO LT TN (DK BRN TO BLK OIL STN IN 30%) HD DNS, V/F-XLN MD-XLN IP, S-SUCRO, IMBD SM CALC-XLS IP, TR SCAT IMBD PYR, DLL YEL FLO IN 20%, PR TO FR VUG POR IN 3%, INST FL SH CUT, EXCEL SLW STRM THRU, BRN LCH ON DISH, LT OIL ODOR

4212'-4214' SLTY SS- LT GY TO CRM IP (DK TN BRN OIL STN IN 60%) V/HD TO FRI IP, IMBD V/VF-GRNS THRU, CALC CMNT, WLL SRT, TR IMBD SH, IMBD LS IP, TR DLL V/DLL YEL FLO IP, V PR INTER-GRN POR IN 1%, PR FL SH CUT, PR TO GD SLW STRM IN 40%, LT TN LCH ON DISH, NO OIL ODOR

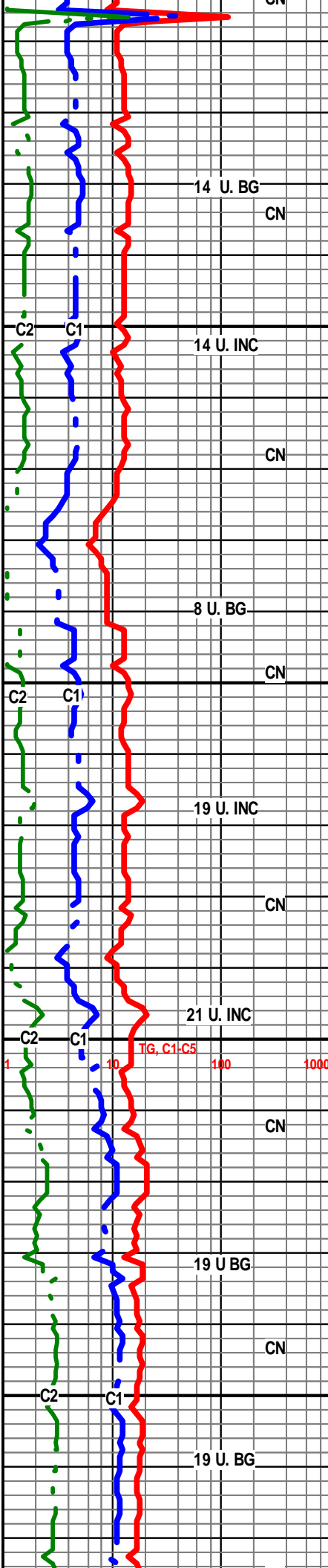
4230'-4232' LS- WHT TO OFF WHT CRM IP (W/BLK TAR OIL STN SCAT IN 30%), HD DNS W TR BR TT IP, V F-XLN, HVY TR ORNG & TN CHRT THRU TR, TR IMBD DISS PYR, DLL YEL FLO IN 50%, V PR TO PR VUG POR IN 2%, TR PR INTER-XLN POR IP, FR FL SH CUT, FR SLW STRMS IN 50%, V LT TN LCH ON DISH, NO OIL ODOR

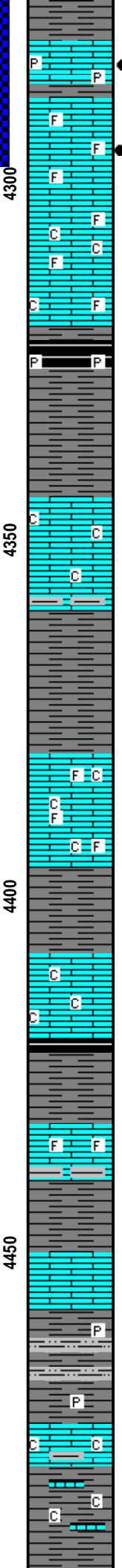
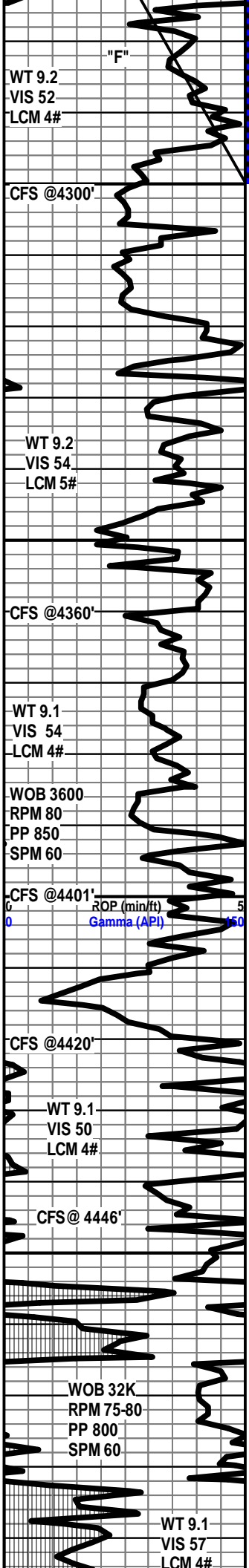
LANSING "D" 4240' (-948)

LS- OFF WHT TO CRM, HD DNS, V/F-XLN, S-CHLKY HVY TR CLR TO ORNG TRANS CHRT, HVY TR SFT TO FRM WHT CHLK, DLL YEL MIN FLO IN 60%, NO VIS POR, NO VIS CUT, NO VIS SHOW

SH- BLK SFT CARB

4281'-4284' LS- OFF WHT TO CRM IP (DK BRN TO BLK OIL STN SCAT IN 40-50%) HD DNS TO TR BR TT IP, F-XLN RE-XLN MTRX, S-CHLKY IP





IMBD SM CALC-XLS THRU, IMBD LM GRNS, SCAT IMBD DISS PYR, YEL GLD FLO IN 40%, PR TO TR FR MICRO VUG POR IN 3%, PR INTER-XLN POR IN 2%, TR FR INTER-XLN POR IP, INST FLSH CUT, EXCEL SLW STRM THRU, BRN LCH ON DISH, NO OIL ODOR

LANSING "G" 4289 (-997')

4296'-4298' LS- WHT OFF WHT IP (BRN OIL STN IN 60% W/LIVE OIL STN), HD DNS TO BRTT, MD-XLN V RE-XLN MTRX, IMBD LG TO MD CLR QRTZ GRNS, SCAT IMBD SM FOSS FRGS, DLL YEL FLO IN 30%, PR TO FR INTER-XLN POR IN 3%, SCAT PR MICRO VUG POR IN 2%, GD FLSH CUT, EXCEL SLW STRMS, BRN LCH ON DISH, LT OIL ODOR

LS- OFF WHT TO CRM IP, HD DNS TO BRTT, VF/F-XLN, S-CHLKY, IMBD MICRO FOSS IP, SFT TO FRM WHT CHLK THRU TR, V DLL YELL FLO IP, NO VIS POR, NO VIS SHOW

SH-BLK SFT CARB, TR IMBD DISS PYR

SH- MD GY TO DK GY GRN, FRM TO SFT, BLCKY, V CALC

LS- CRM TO LT TN, HD DNS, F/VF-XLN, S-CHLKY IP, IMBD SM CALC-XLS, ABTD SFT TO GMMY WHT CHLK THRU, DLL YEL TO YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

SH- RD DK GY GRN MOTT, SFT TO FRM GMMY IP, SLTY TXT

LANSING "J" 4382' (-1090')

LS- CRM TO LT TN OFF WHT IP, HD DNS TO BRTT IP, F TO MD-XLN, RE-XLN IP, S-CHLKY, IMBD SM FOSS FRGS, HVY TR SFT TO GMMY WHT CHLK, DLL YEL FLO IN 70%, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO DK RD GRN, SFT TO V GMMY, V SLTY TXT

LS- WHT TO CRM, HD TO BRITT IP, MD-XLN, V-CHLKY MTRX, ABTD IMBD WHT CHLK, TR IMBD SM CLR QRTZ GRNS IP, V DLL YEL MIN FLO IN 50%, PR MICRO VUG POR IN 2%, NO VIS CUT OR SHOW

BKC 4441' (-1149')

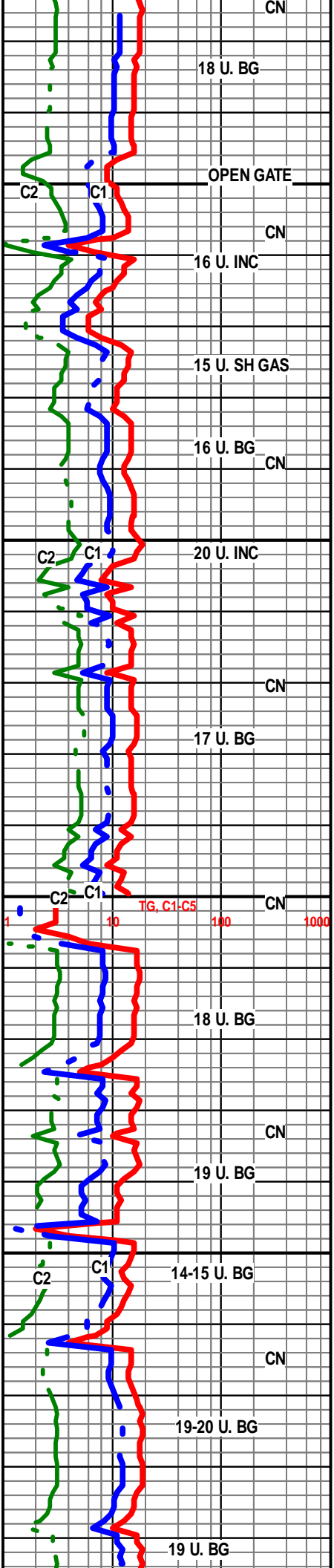
LS- OFF WHT TO CRM LT TN, HD DNS, F/VF-XLN, SCAT IMBD MICRO FOSS, TR IMBD SH IP, DLL YEL TO YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

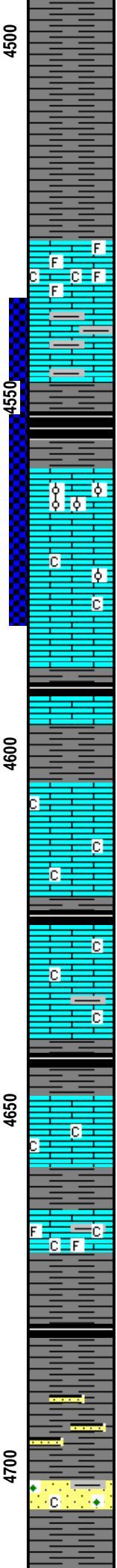
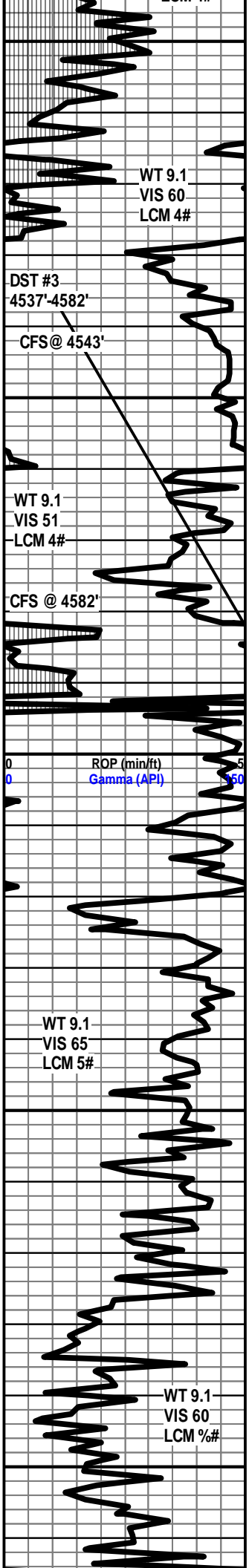
LS- WHT TO OFF WHT GY IP, HD DNS, VF/F-XLN, CRYPTO-XLN IP, TR S-CHLKY IP, SLI TR IMBD SM CLR QRTZ GRNS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH & SLT- GY TO MD GY, FRM TO SFT IP, V SLTY TXT, HVY TR SLTS WITH IMBD V/VF-GRNS THRU, TR PYR CLSTRS

LS- OFF WHT TO CRM GY, HD DNS, VF/F-XLN, RE-XLN IP, IMBD GY SH, TR SFT TO FRM WHT CHLK IN TRAY, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

SH- GY TO MD GY RD GRN MOTT, SFT TO GMMY IP, SLTY TXT, TR SFT WHT CHLK, TR INTER-BD LS





SH- GY TO PRP RD MOTT, SFT TO FRM, SPLNTY TO BLCKY, SLTY TXT IP, CALC-IP

SH- DK GY TO PRP RD, SFT TO V GMMY THRU, SLTY TXT, TR VV/F PRED UNCONSOLIDATED GRNS

LS- CRM TO LT TN OFF WHT IP, HD DNS TO TR BRTT IP, F/MD-XLN, RE-XLN, HVY TR IMBD SM FOSS FRGS THRU, TR IMBD GY SH IP, TR SFT TO FRM WHT CHLK, DLL YEL TO YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LABETTE SHALE 4550' (-1258')

4560'-4562' LS- WHT TO OFF WHT (DK TN BRN OIL STN IN 30-40%), HD DNS TO BRTT IP, F-XLN, RE-XLN S-SUCRO, IMBD SM OOL, TR IMBD SM S-ANGL CLR QRTZ GRNS IP, DLL YEL FLO IN 40%, BRI YEL GLD FLO IN 10%, FR VUG POR IN 3%, FR TO TR PR INTER-OOL POR IN 2%, GD VUG POR IN 1%, MLKY BLU CUT, GD SLW STRM THRU, DRK TN LCH ON DISH, V LT OIL ODOR

SH BLK SFT CARB

SH- MD GY TO DK GY RD, SFT TO FRM IP, SPLNTY SLTHY TXT, V CALC

LS- OFF WHT TO CRM LT TN IP, HD DNS, VF/F-XLN, S-CHLKY IP, ABDT WHT TO CLR CHRT THRU TR, TR IMBD SM FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH. BLK SFT CARB

LS- OFF WHT TO WHT LT GY IP, V HD DNS, VF-XLN, S-CHLKY IP, TR IMBD GY SH, TR SFT WHT CHLK IN TRAY, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SH- BLK SFT CARB, W/RD TO GRN PRP SFT TO FRM IP, SPLNTY

CHEOKEE 4648' (-1356')

LS- CRM TO OFF WHT, HD DNS TO BRTT IP, F/MD-XLN IP, S-CHLKY, IMBD SM CLR QRTZ GRNS IP, TR SFT TO GMMY WHT CHLK, V DLYELL MIN FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

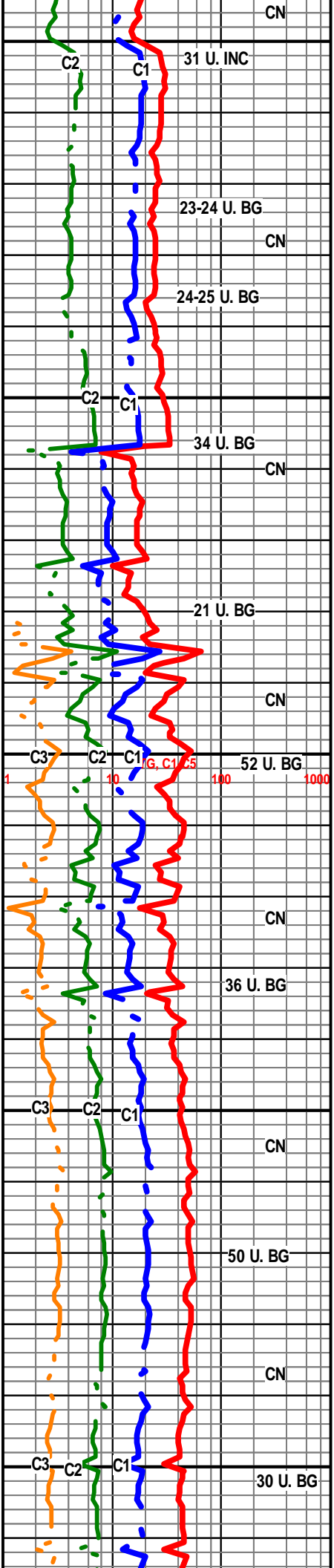
LS- WHT TO OFF WHT, HD DNS TO TR BRTT IP, F-XLN, S-CHLKY, IMBD FOSS FRGS IP, TR INTER-BD SH, DLL YEL SPTTD MIN FLO IP, NO VIS POR, NO VIS SHOW

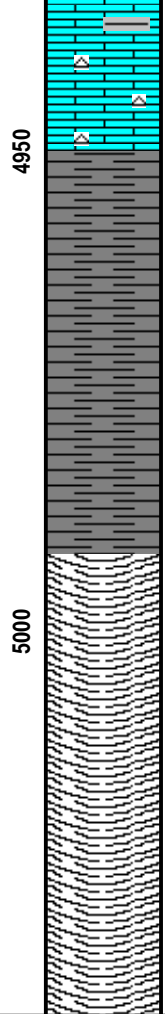
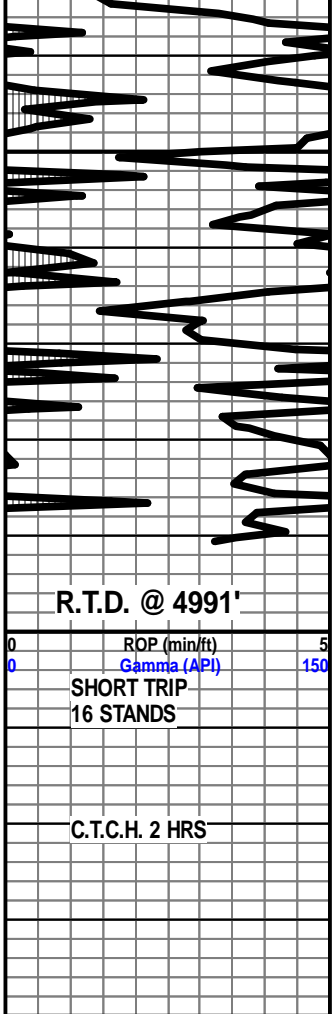
SH- RD TO ORNG GRN PRP IP, MOTT, V SFT TO GMMY IP, V SLTY TXT, CALC IP

SH- RD TO DK RD GN, SFT TO FRM IP, V SLTHY TXT, TR LG RND PRED UNCONSOLIDATED QRTZ GRNS,

SS- CLR TO OFF WHT, HD TT TO FRI IP, VF/QRTZ GRNS, S-RND TO RND GRNS, WLL SRT, SIL CMNT, HVY TR IMBD CHLOR, TR IMBD RD SH, SLI TR WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- SH RD, PRP LT GRN ORNG IP, SFT TO FRM IP, SLTHY





LS- CRM TO LT TN, HD DNS TO BRTT IP, VF/F-XLN,
S-SUCRO IP, HVY TR INTER-BD RD SH, TR WHT TO CLR
CHRT, NO VOS FLO, NO VIS POR, NO VIS SHOW

SH- RD TO PRP GRN, SFT TO FRM IP, SLTY TXT, HVY TR
WHT TO CLR CHRT THRU TRAY

SH- RD TO DK RD MD GY GRN MOTT, SFT TO FRM,
SPLNTY TO BLCKY, V SLTY TXT

SH- RD TO ORNG GY LT GRN MOTT, FRM TO SFT IP,
BLCKY, SLTY TXT IP, CALC IP

R.T.D @ 7:00 A.M.

DROP SURVEY

T.O.F.L @ 9:30 A.M.

WEATHERFORD/LIBERAL, KS

