



1264567

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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)*

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>			PRODUCTION INTERVAL: Top _____ Bottom _____	

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	HOLSTE FARMS 1-30
Doc ID	1264567

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC



# 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. 1453

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-30-15	30	2	32	Rawlins	KS		8:15p.m.
Lease <i>Holste Farms</i>				Well No. <i>1-30</i>		Owner <i>E into</i>	
Contractor <i>Murfin #7</i>				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.			
Type Job <i>Surface</i>				Charge To <i>Sam Cary Jr &amp; Associates</i>			
Hole Size <i>12 3/4</i>		T.D. <i>220</i>		Street			
Csg. <i>8 5/8</i>		Depth <i>219</i>		City			
Tbg. Size		Depth		State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. <i>15'</i>		Shoe Joint		Cement Amount Ordered <i>150 com 3 1/2-LL 2 1/2-1/2L</i>			
Meas Line		Displace <i>1382</i>		Common <i>150</i>			
<b>EQUIPMENT</b>							
Pumptrk <i>20</i>	No.	Cementer <i>Craig</i>	Pos. Mix				
		Helper <i>Brett</i>	Gel. <i>3</i>				
Bulktrk	No.	Driver <i>Chad</i>	Calcium <i>6</i>				
Bulktrk <i>9</i>	No.	Driver <i>Chad</i>	Hulls				
<b>JOB SERVICES &amp; REMARKS</b>							
Remarks:				Salt			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
<i>8 5/8 on bottom Fast Circulation</i>				Handling <i>159</i>			
<i>Mix 150 com + Displace</i>				Mileage			
<i>Cement Circulated</i>				<b>FLOAT EQUIPMENT</b>			
				Guide Shoe <i>8 5/8</i>			
				Centralizer <i>1</i>			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge <i>Surface</i>			
				Mileage <i>68</i>			
				Tax			
				Discount			
				Total Charge			
Signature <i>Kelly Wilson</i>							

# 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. 1423

Date <b>6-5-15</b>	Sec. <b>30</b>	Twp. <b>2</b>	Range <b>32</b>	County <b>Rawlins</b>	State <b>KS</b>	On Location	Finish <b>2:45 PM</b>
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Location **Atwood, 2E, 4N, 1/2SE, En2**

Lease <b>Holste Farms</b>	Well No. <b>1-30</b>	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 <b>Murfin 7</b>		
Type Job <b>Plug</b>		
Hole Size <b>7 7/8</b>	T.D. <b>4450</b>	Charge To <b>Sam Gary Jr + Associates</b>
Csg.	Depth	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <b>255 sx 60/40, 4% gel, 1/4 # Flo</b>

Meas Line Displace

**EQUIPMENT**

Pumptrk <b>20</b> No.	Cementer Helper <b>Nick</b>	Common <del>153</del> <b>153</b>
Bulktrk <b>15</b> No.	Driver <b>Doug</b>	Poz. Mix <del>102</del> <b>102</b>
Bulktrk <b>Ph</b> No.	Driver <b>Travis</b>	Gel. <b>9</b>
		Calcium

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal <b>56# 63#</b>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<b>50 sx at 2600</b>	Sand
<b>100 sx at 1875</b>	Handling <b>264</b>
<b>50 sx at 270</b>	Mileage
<b>10 sx at 40 with wood plug</b>	<b>FLOAT EQUIPMENT</b>
<b>30 sx Rat</b>	Guide Shoe
<b>15 sx Mouse</b>	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	<b>1 wood plug</b>
	Pumptrk Charge <b>plug</b>
	Mileage <b>68</b>

X Signature <b>Kelly Wilson</b>	Tax
	Discount
	Total Charge



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Sam Gsry Jr. & Associates

**30-2S-32W-Rawlins**

1515 Wynkoop, Ste 700  
Denver Co, 80202

**Holste Farms #1-30**

Job Ticket: 62375

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2015.06.02 @ 14:19:00

## GENERAL INFORMATION:

Formation: **Lans. 'D'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:01:00

Time Test Ended: 20:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

**Interval: 3777.00 ft (KB) To 3826.00 ft (KB) (TVD)**

Reference Elevations: 2780.00 ft (KB)

Total Depth: 3826.00 ft (KB) (TVD)

2775.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8368 Inside**

Press@RunDepth: 80.65 psig @ 3778.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.02

End Date: 2015.06.02

Last Calib.: 2015.06.02

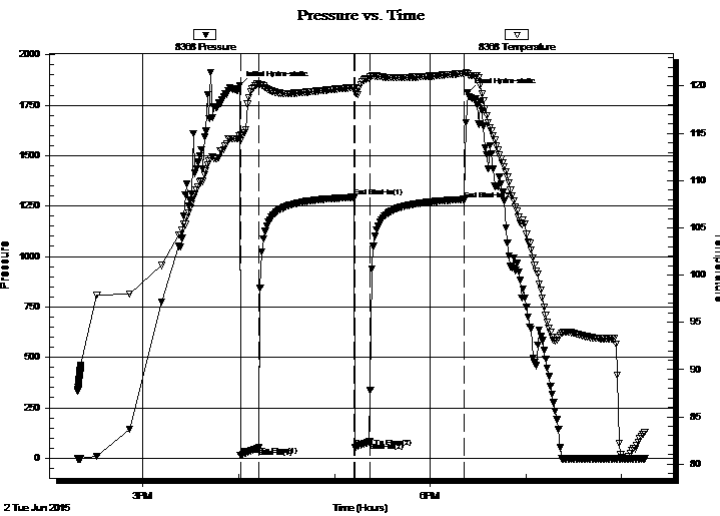
Start Time: 14:19:01

End Time: 20:15:00

Time On Btm: 2015.06.02 @ 16:00:30

Time Off Btm: 2015.06.02 @ 18:23:30

**TEST COMMENT:** 10 - IF - Surface blow built up to 1 3/4"  
60 - ISI - No Return  
20 - FF - Surface blow started 3 mins. in and built to 1 1/4"  
60 - FSI - No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.17	114.69	Initial Hydro-static
1	14.22	114.24	Open To Flow (1)
12	51.48	120.10	Shut-In(1)
72	1293.74	119.86	End Shut-In(1)
73	54.82	119.40	Open To Flow (2)
82	80.65	120.80	Shut-In(2)
141	1283.41	121.34	End Shut-In(2)
143	1812.59	121.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
131.00	OSM - 100M - Oil Spots	0.64

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Sam Gsry Jr. & Associates

**30-2S-32W-Rawlins**

1515 Wynkoop, Ste 700  
Denver Co, 80202

**Holste Farms #1-30**

Job Ticket: 62375

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2015.06.02 @ 14:19:00

### 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
131.00	OSM - 100M - Oil Spots	0.644

Total Length: 131.00 ft      Total Volume: 0.644 bbl

Num Fluid Samples: 0

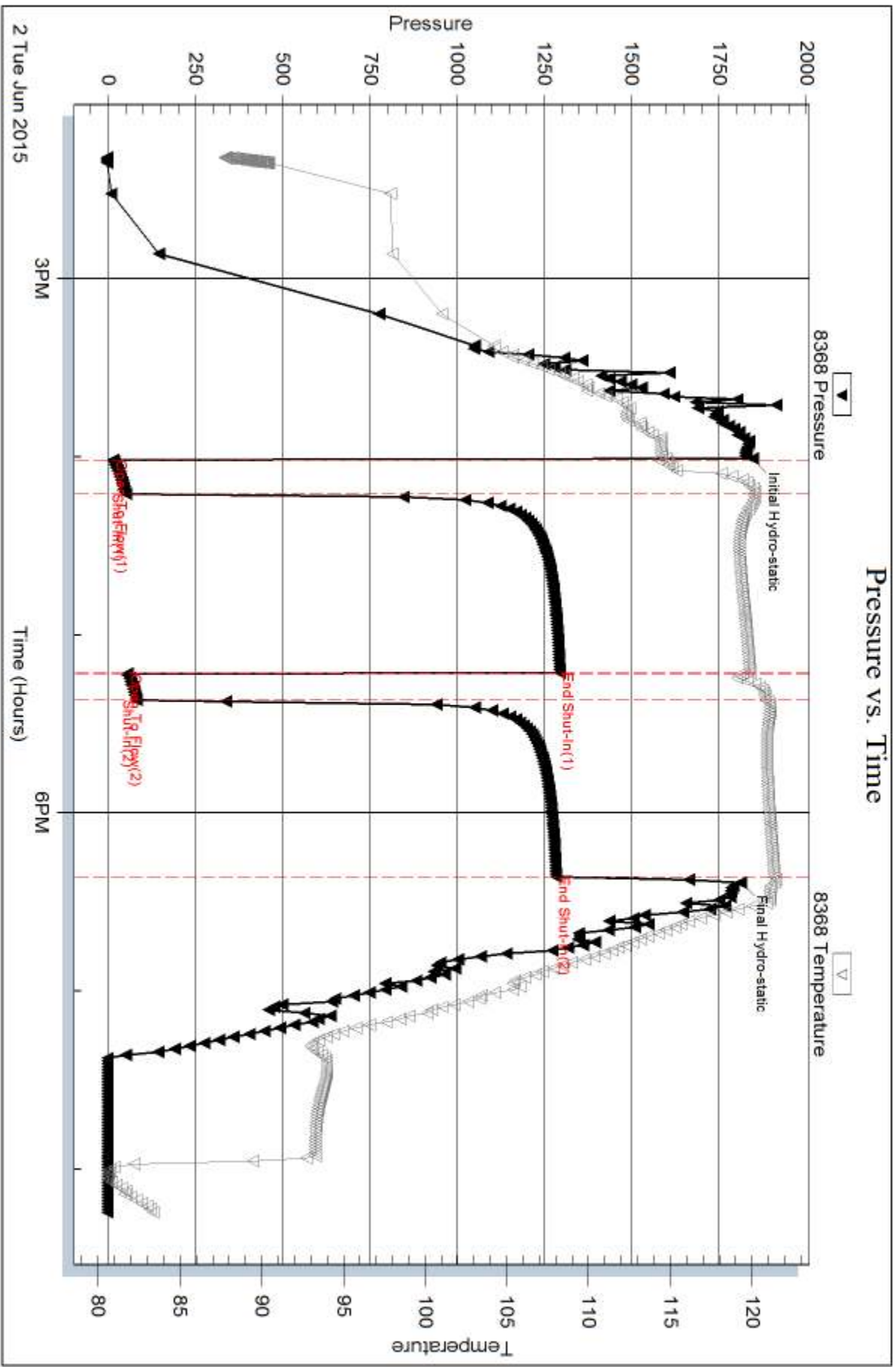
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



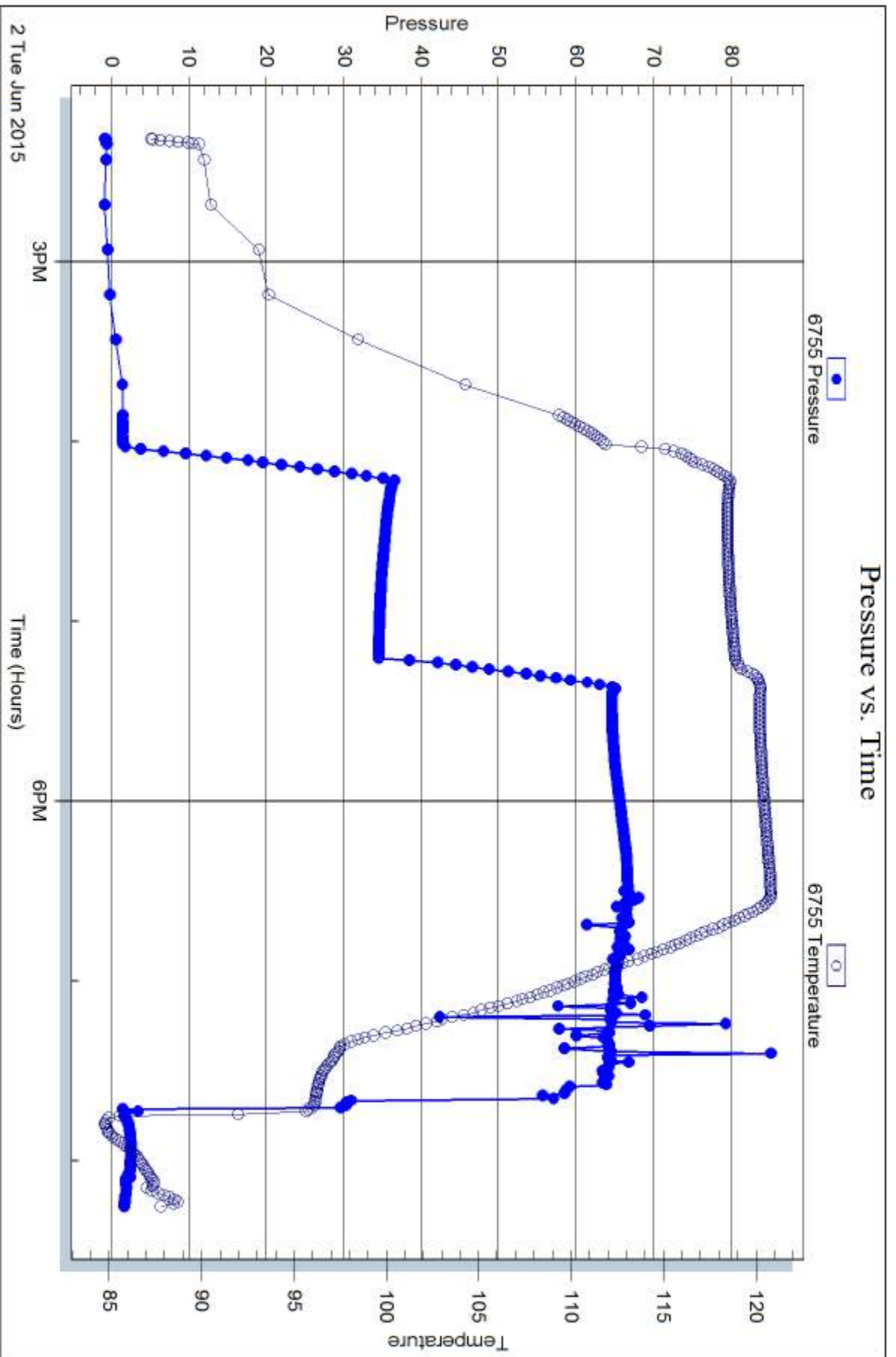
Serial #: 6755

Fluid

Sam Gsry Jr. & Associates

Holste Farms #1-30

DST Test Number: 1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Sam Gsry Jr. & Associates

**30-2S-32W-Rawlins**

1515 Wynkoop, Ste 700  
Denver Co, 80202

**Holste Farms #1-30**

Job Ticket: 64976

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2015.06.03 @ 06:20:00

## GENERAL INFORMATION:

Formation: **LKC 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:17:45

Time Test Ended: 14:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 54

**Interval: 3858.00 ft (KB) To 3906.00 ft (KB) (TVD)**

Reference Elevations: 2780.00 ft (KB)

Total Depth: 3906.00 ft (KB) (TVD)

2775.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 6753**

**Outside**

Press@RunDepth: 454.67 psig @ 3859.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.03

End Date:

2015.06.03

Last Calib.:

2015.06.03

Start Time: 06:20:05

End Time:

14:04:59

Time On Btm:

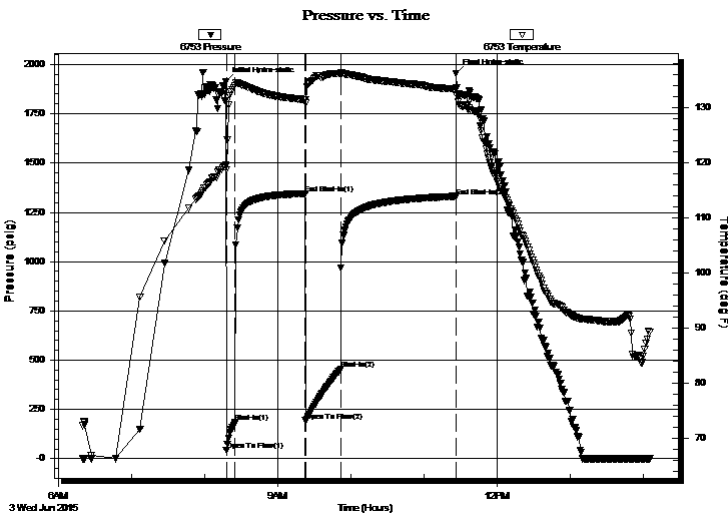
2015.06.03 @ 08:17:30

Time Off Btm:

2015.06.03 @ 11:26:15

**TEST COMMENT:** 5 - IF - Bottom of the bucket in 5 mins.  
60 - ISI - No Return  
30 - FF - Bottom of the bucket in 4 mins.  
90 - FSI - No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1911.33	119.59	Initial Hydro-static
1	41.74	118.82	Open To Flow (1)
8	182.65	134.05	Shut-In(1)
65	1345.86	131.48	End Shut-In(1)
66	192.59	130.84	Open To Flow (2)
94	454.67	136.18	Shut-In(2)
189	1331.36	133.41	End Shut-In(2)
189	1952.70	133.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
760.00	MW- 95W - 5M	8.39
200.00	MW - 55W - 45M	2.81

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Sam Gsry Jr. & Associates

**30-2S-32W-Rawlins**

1515 Wynkoop, Ste 700  
Denver Co, 80202

**Holste Farms #1-30**

Job Ticket: 64976

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2015.06.03 @ 06:20:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

46000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
760.00	MW- 95W - 5M	8.395
200.00	MW - 55W - 45M	2.805

Total Length: 960.00 ft

Total Volume: 11.200 bbl

Num Fluid Samples: 0

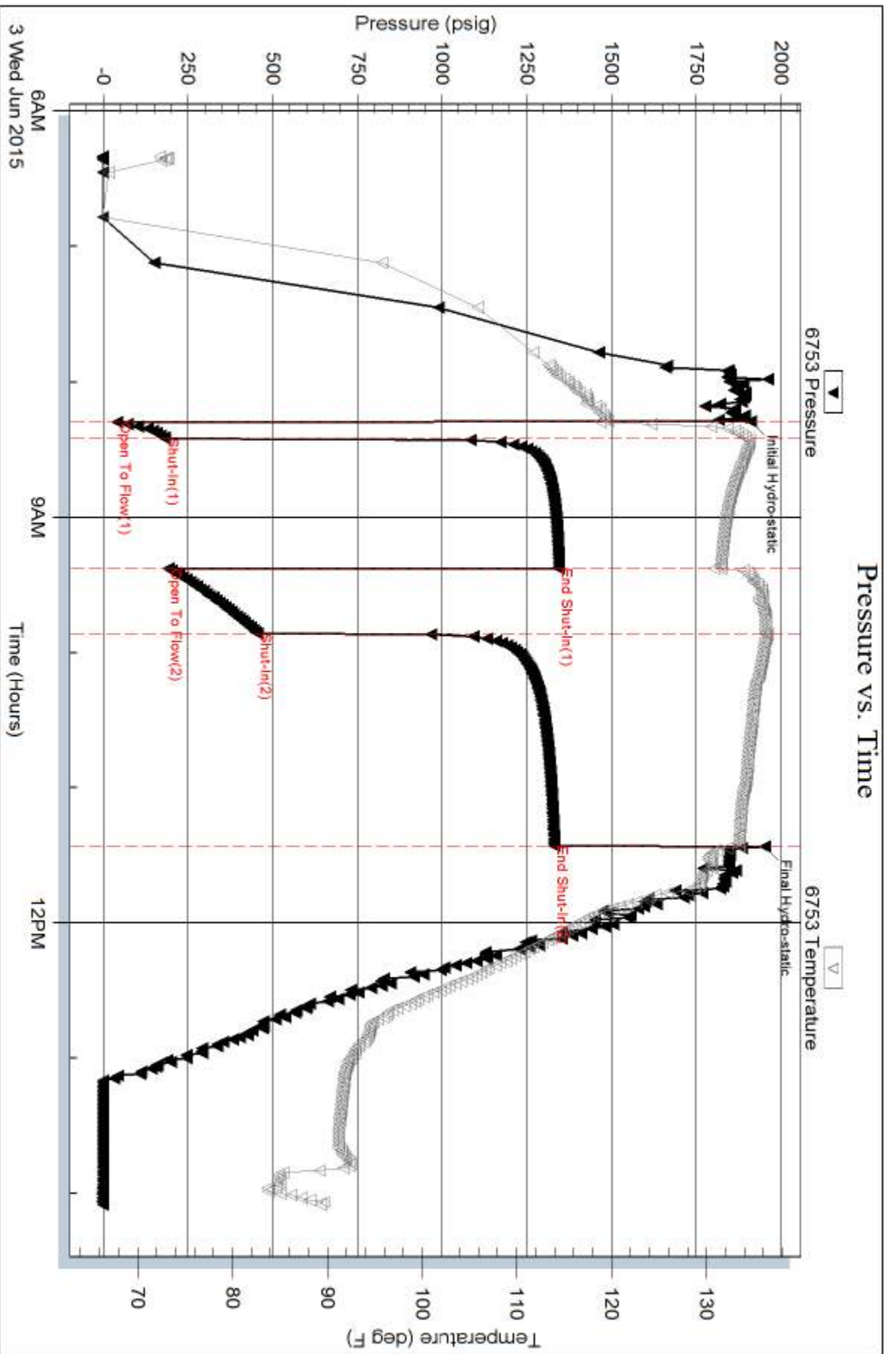
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



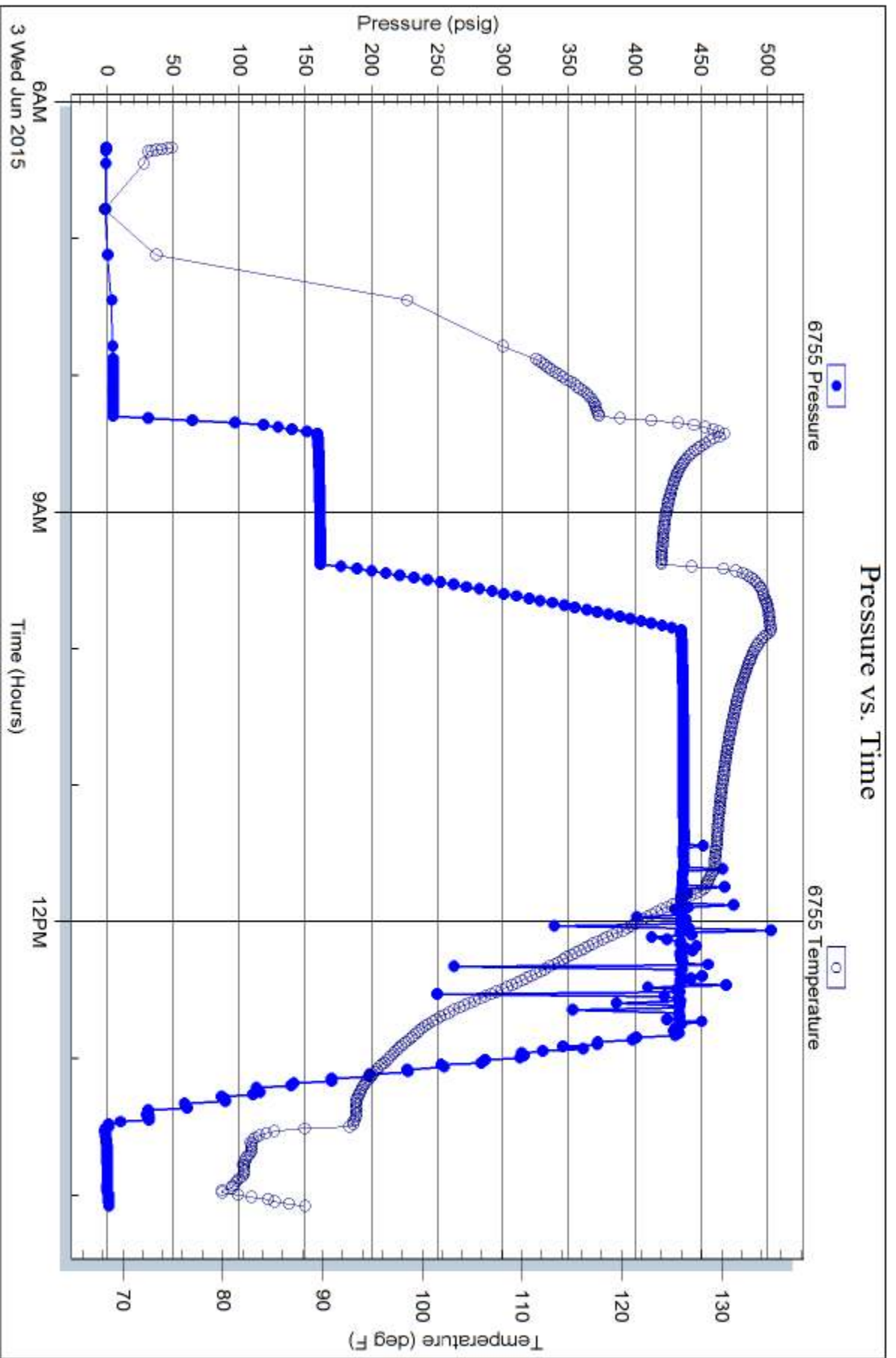
Serial #: 6755

Fluid

Sam Gsry Jr. & Associates

Hoiste Farms #1-30

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64976

Printed: 2015.06.04 @ 10:51:57





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

Well Name: HOLSTE FARMS 1-30  
Well Id:  
Location: SEC. 30 2S 32W RAWLINS COUNTY, KANSAS  
License Number: 15-153-21140-0000 Region: WILDCAT  
Spud Date: MAY 31, 2015 Drilling Completed: JUNE 4, 2015  
Surface Coordinates: 1155 FSL/ 2111 FEL

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 2784' K.B. Elevation (ft): 2789'  
Logged Interval (ft): 3550' To: 4450' Total Depth (ft): 4450'  
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](http://www.WellSight.com)

#### OPERATOR

Company: Samuel Gary Jr. & Assoc.  
Address: 1515 Wynkoop, Ste. # 700  
Denver, Colo. 80202  
Geo: Clayton Camozzi

#### GEOLOGIST

Name: Schuyler Hedrick  
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. & Associates

30-2S-32W-Rawlins

1515 Wynkoop, Ste 700  
Denver Co, 80202

**Holste Farms #1-30**

Job Ticket: 62375      **DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2015.06.02 @ 14:19:00

### GENERAL INFORMATION:

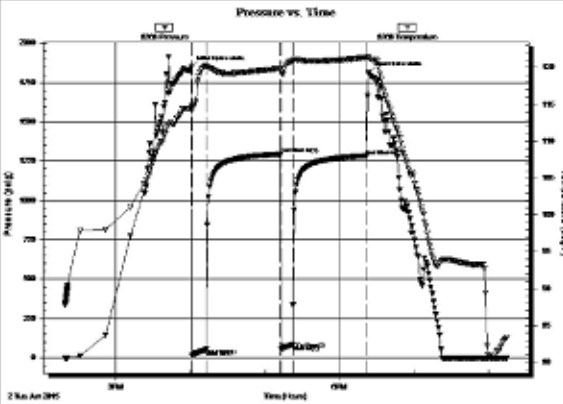
Formation: **Lans. 'D'**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:01:00  
 Time Test Ended: 20:15:00  
 Interval: **3777.00 ft (KB) To 3826.00 ft (KB) (TVD)**  
 Total Depth: **3826.00 ft (KB) (TVD)**  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Royal Fisher  
 Unit No: #54  
 Reference Elevations: 2780.00 ft (KB)  
 2775.00 ft (CF)  
 KB to GR/CF: 5.00 ft

### Serial #: 8368

Inside

Press@RunDepth: 80.65 psig @ 3778.00 ft (KB)  
 Start Date: 2015.06.02      End Date: 2015.06.02  
 Start Time: 14:19:01      End Time: 20:15:00  
 Capacity: 8000.00 psig  
 Last Calib.: 2015.06.02  
 Time On Btm: 2015.06.02 @ 16:00:30  
 Time Off Btm: 2015.06.02 @ 18:23:30

TEST COMMENT: 10 - IF - Surface blow built up to 1 3/4"  
 60 - ISI - No Return  
 20 - FF - Surface blow started 3 mins. in and built to 1 1/4"  
 60 - FSI - No Return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.17	114.69	Initial Hydro-static
1	14.22	114.24	Open To Flow (1)
12	51.48	120.10	Shut-in(1)
72	1293.74	119.86	End Shut-in(1)
73	54.82	119.40	Open To Flow (2)
82	80.65	120.80	Shut-in(2)
141	1283.41	121.34	End Shut-in(2)
143	1812.59	121.34	Final Hydro-static

### Recovery

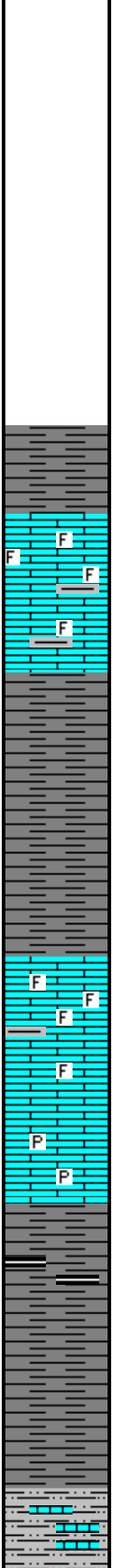
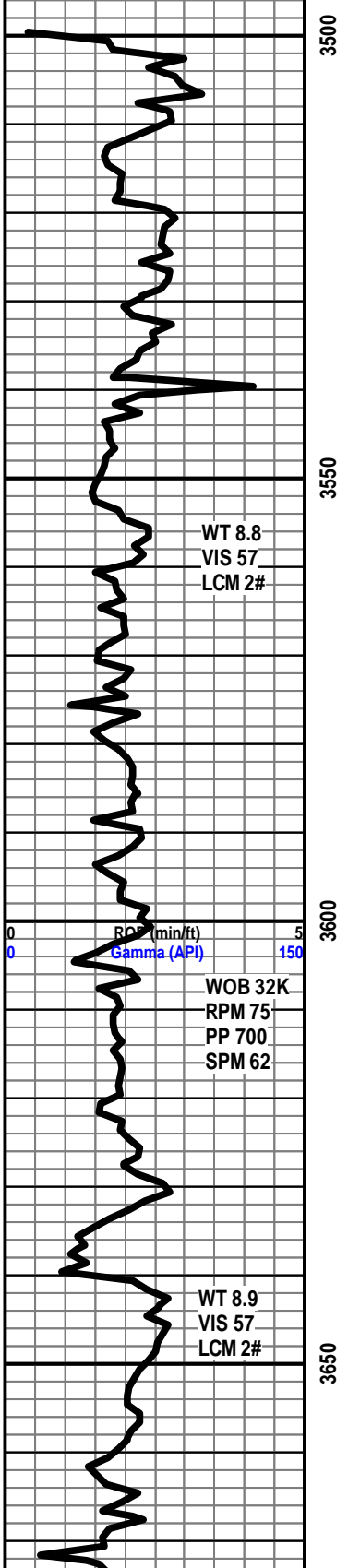
Length (ft)	Description	Volume (bbl)
131.00	OSM - 100M - Oil Spots	0.64

### Gas Rates

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







**BIT TRIP @ 3500'**

STRAP 1.21 LONG TO BOARD

BIT #2 TRI-CONE  
HTC GX20  
SERIAL # 5250747  
JETS 3 16'S

**START 24 HR. MANNED UNIT 6/1/15**

LS- OFF WHT TO CRM, MD/F-XLN, RE-XLN, S-CHLKY, IMBD FOSS FRGS, IMBD RD SH, DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO DK RD ORNG IP, SFT TO GMMY, SLTY TXT

**TOPEKA 3605' (-816')**

LS- WHT TO OFF WHT LT GY IP, F/MD-XLN, RE-XLN IP, S-CHLKY, HVY TR IMBD FOSS FRGS, IMBD RD SH IP, DLL YEL TO YEL FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW

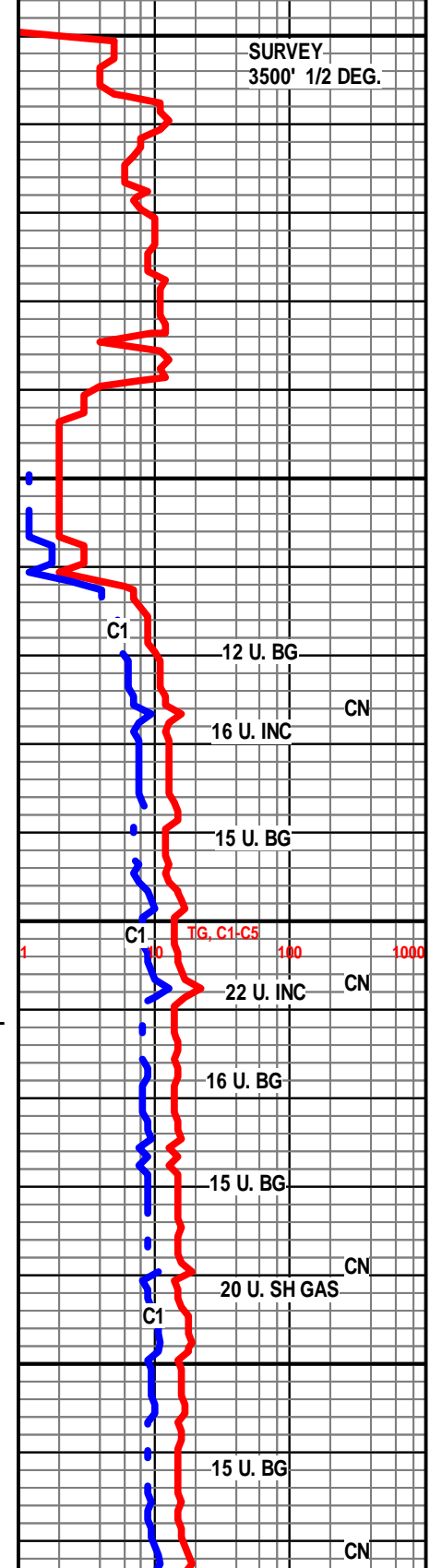
LS- TN TO DK TN OFF WHT IP, V HD DNS, VF/F-XLN, CRYPTO-XLN IP, TR PYR CLSTRS, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

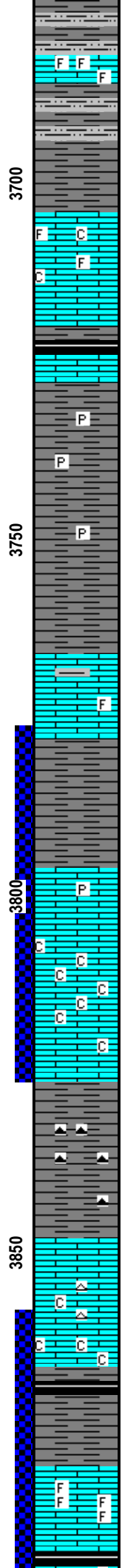
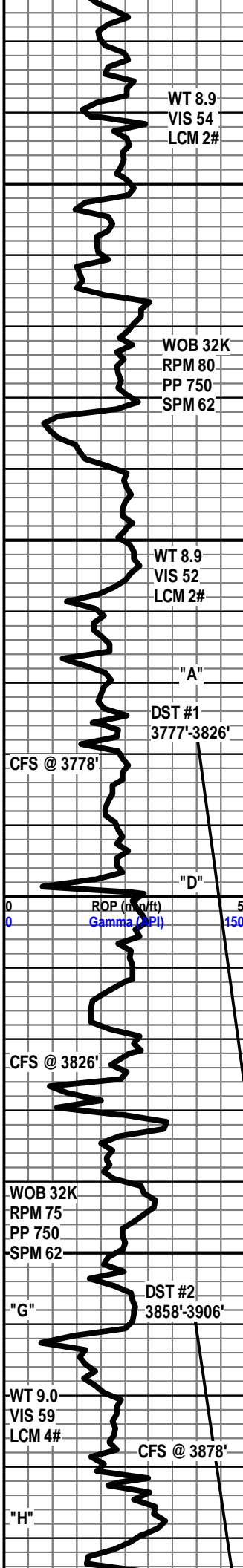
SH- RD TO DK RD, SFT TO V GMMY, SLTY TXT, W/ BLK SFT CARB

SH- RD TO DK RD, FRM BLCKY TO GMMY, SLTY TXT, TR PYR CLSTRS

**DEER CREEK 3664' (-875')**

SLTSTN- GY TO LT GY WHT, HD TO FRI IP, IMBD V/V/F-GRNS, RND GRNS, IMBD LS, NO VIS FLO, NO VIS POR





LS- WHT TO OFF WHT, HD DNS TO BR TT, MD-XLN, RE-XLN, S-CHLKY, AB DT IMBD FOSS FRGS, IMBD V/V/F-GRNS IP, NO VIS FLO, TR FR INTER-FOSS POR IN 1%, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BR TT IP, VF/MD-XLN, S-SUCRO IP, TR IMBD SM FOSS FRGS, SFT TO GMMY WHT CHLK IN TRAY, DLL YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

**HEEBNER 3720' (-931')**

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

SH- RD TO DK RD BRN, SFT TO GMMY, SLTY TXT

**LANSING 3766' (-977')**

LS- LT TN TO TN, V HD DNS, VF/F-XLN, MD-XLN IP, TR IMBD RD SH, SLI TR FREE FOSS IN TRAY, DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

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

**LANSING "D" 3796' (-1007')**

3797'-3799' LS- OFF WHT TO CRM (W/ TN TO DK TN OIL STN SCAT IN 30%), HD DNS TO BR TT, MD/F-XLN, RE-XLN, S-SUCRO, IMBD S-ANG F-GRNS, HVY TR PRED UNCONSOLIDATED PBBL SIZE GRNS, V SLI TR DISS PYR, DLL YEL FLO IN 40%, PR INTER-XLN POR IN 2%, FR INTER-XLN POR IN 1%, TR PR VUG POR IP, FR FL SH CUT, FR SLW STRM IN 40%, TR LT TN LCH ON DSH, NO OIL ODOR

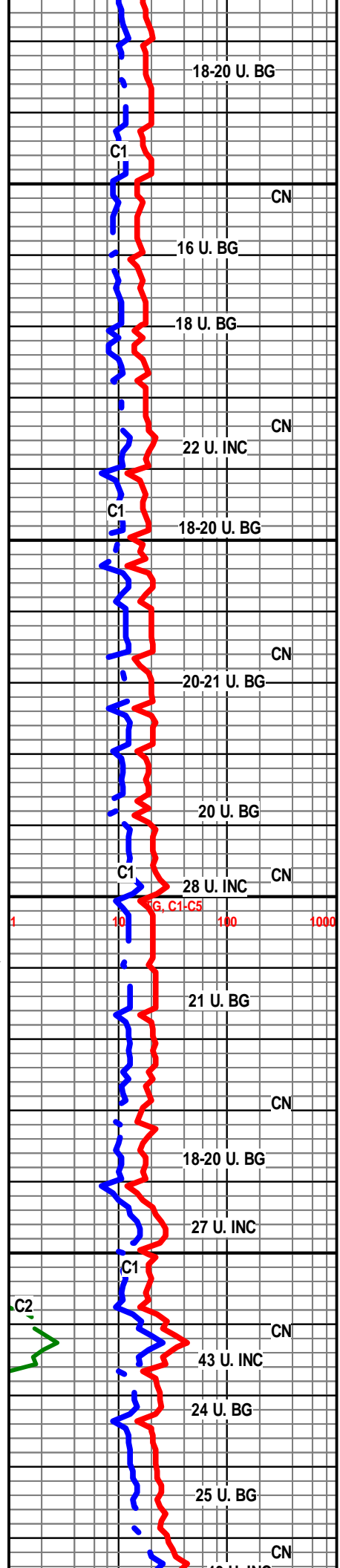
SH- DK RD TO RD ORNG, V FRM TO SFT IP, BLCKY, AB DT ORNG CHRT THRU

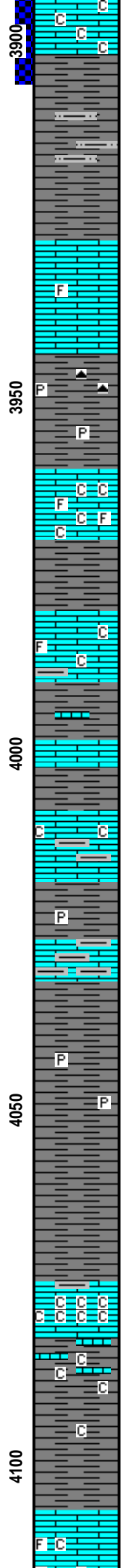
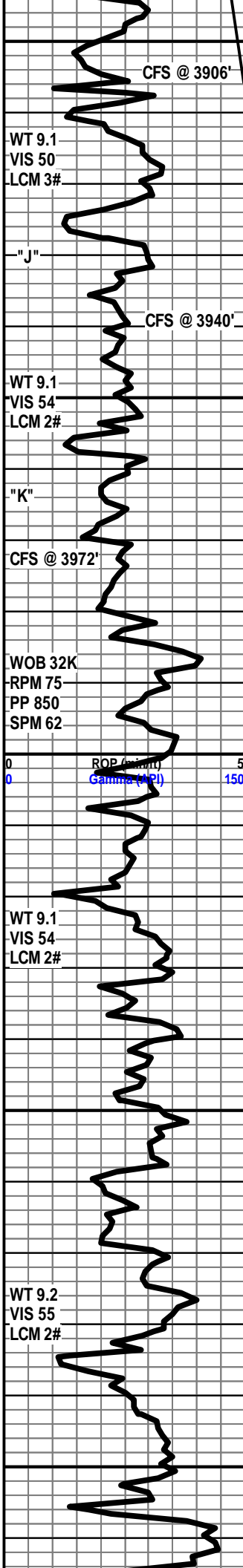
**LANSING "G" 3849' (-1060')**

LS- OFF WHT TO CRM, HD DNS TO BR TT IP, MD/F-XLN, RE-XLN IP, S-CHLKY, TR IMBD F-GRNS QRTZ, S-ANG GRNS, HVY TR GMMY WHT CHLK, TR WHT CHRT, YEL FLO IN 80%, FR VUG POR IN 1%, TR PR INTER-XLN POR IP, NO VIS CUT OR SHOW

SH- MD GY TO DK GY RD, FRM TO SFT, HVY TR SFT TO GMMY WHT CHLK, TR ORNG CHRT

381'-3883' LS- LT GY TO OFF WHT (W/ BLK OIL STN IN 40%-50%), HD DNS TO BR TT IP, F-XLN, RE-XLN, S-SUCRO, HVY TR IMBD FOSS FRGS, DLL YEL FLO IN 30%, BR YEL GLD FLO IN 20%, TR PR TO FR INTER-FOSS POR IN 2%, FR VUG POR IN 1%, INTER-FOSS





INTER-FOSS POR IN 2%, FR VUG POR IN 1%, INST FLSH CUT, GOOD SLW STRM THRU, BRN LCH ON DSH, NO OIL ODOR

SH- RD TO BRN GY MOTT, SFT TO FRM IP, HVY TR GMMY WHT CHLK, TR INTER-BD SLT STN

**LANSING "J" 3929' (-1140')**

3934'-3946' LS- WHT TO OFF WHT (W/ DK BRN TO BLK OIL STN IN 10%-20%), HD DNS TO BRTT, MD/F-XLN, TR S-CHLKY IP, IMBD VF-GRNS QRTZ, S-RND TO ANG GRNS, TR IMBD MICRO FOSS FRGS IP, YEL GLD FLO IN 20%, SPTTD BRT YEL GLD FLO IP, PR MICRO-VUG POR IN 1%, TR FR TO PR VUG POR IP, WK FLSH CUT, FR SLW STRM IN 20%, NO LCH ON DSH, NO OIL ODOR

SH- RD TO DK RD BRN GRN MOTT, FRM TO SFT GMMY IP, TR PYR CLSTRS, SLI TR ORNG CHRT

LS- OFF WHT TO CRM, HD DNS, VF/F-XLN, S-CHLKY, IMBD FOSS FRGS, SFT TO GMMY WHT CHLK THRU TRAY, DLL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, HD DNS, VF-XLN, S-CHLKY, TR IMBD FOSS FRGS, TR IMBD RD SH, V DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO DK RD, SFT TO V GMMY, TR INTER-BD LS

**BKC 4002' (-1213')**

LS- LT GY TO GY OFF WHT IP, HD DNS TO TR BRTT IP, VF/F-XLN, S-CHLKY, TR INTER-BD RD SH, HVY TR GMMY WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GY TO MD GY, FRM TO GMMY, BLCKY SLTY TXT, TR PYR

LS- CRM TO LT TN, V HD DNS, VF-XLN, RE-XLN IP, TR IMBD FOSS FRGS, HVY TR INTER-BD GY SH THRU, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO DK RD GY MOTT, V GMMY, TR PYR

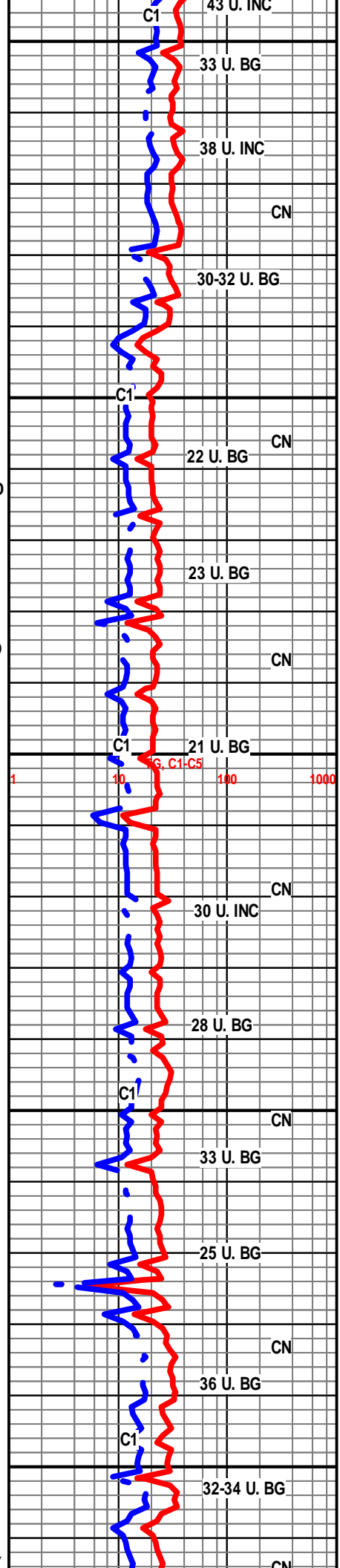
SH- RD TO DK RD, V GMMY, TR PRED UNCONSOLIDATED QRTZ GRNS

LS- LT GY TO OFF WHT, V HD DNS, VF/CRYPTO-XLN, ABTD GMMY WHT CHLK THRU TRAY, TR IMBD SH, V DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

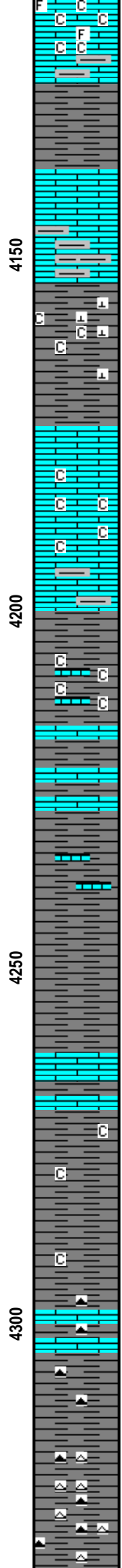
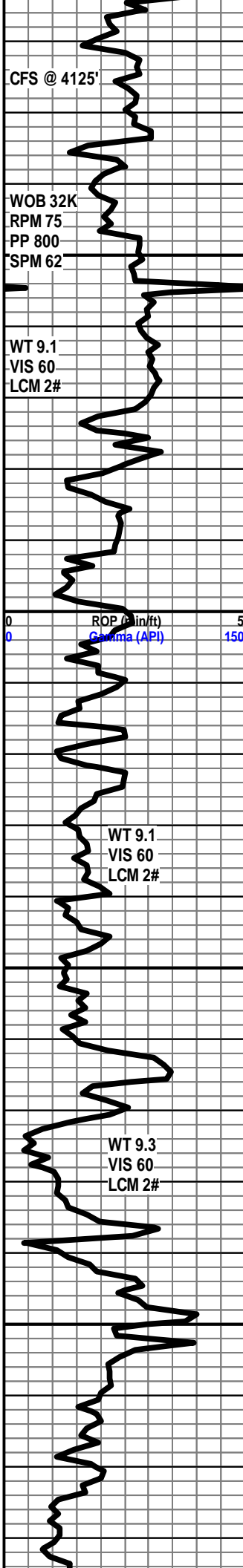
SH- GY TO MD GY, FRM TO SFT GMMY IP, BLCKY, CALC-IP, HVY TR GMMY WHT CHLK

**LABETTE SHALE 4101' (-1312')**

LS- CRM TO LT TN, HD DNS TO BRTT, MD-XLN, RE-XLN, S-CHLKY, HVY TR IMBD FOSS FRGS, ABTD SFT TO GMMY







WHT CHLK THRU TRAY, TR IMBD RD SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO LT RD ORNG, SFT TO GMMY, SLTY TXT

LS- OFF WHT TO CRM, HD DNS TO BRTT IP, MD/F-XLN, RE-XLN, IMBD MICRO-FOSS, HVY TR INTER-BD GY SH THRU, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GY TO MD GY, V FRM TO FRM, BLCKY, V CALC, HVY TR GMMY WHT CHLK IN TRAY

**FORT SCOTT 4175' (-1386')**

LS- CRM TO LT TN, HD DNS TO BRTT IP, F/MD-XLN, RE-XLN IP, S-CHLKY, SCAT IMBD QTRZ GRNS, S-ANG GRNS, TR GMMY WHT CHLK, DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO DK RD BRN, V GMMY TO SFT, ABTD GMMY WHT CHLK, HVY TR INTER-BD LS'S

LS- CRM TO OFF WHT RD, HD DNS, VF-XLN, S-CHLKY IP, HVY TR IMBD RD SH, ABTD GMMY WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- RD TO DK RD GRN MOTT, SFT TO V GMMY THRU, TR INTER-BD LS'S

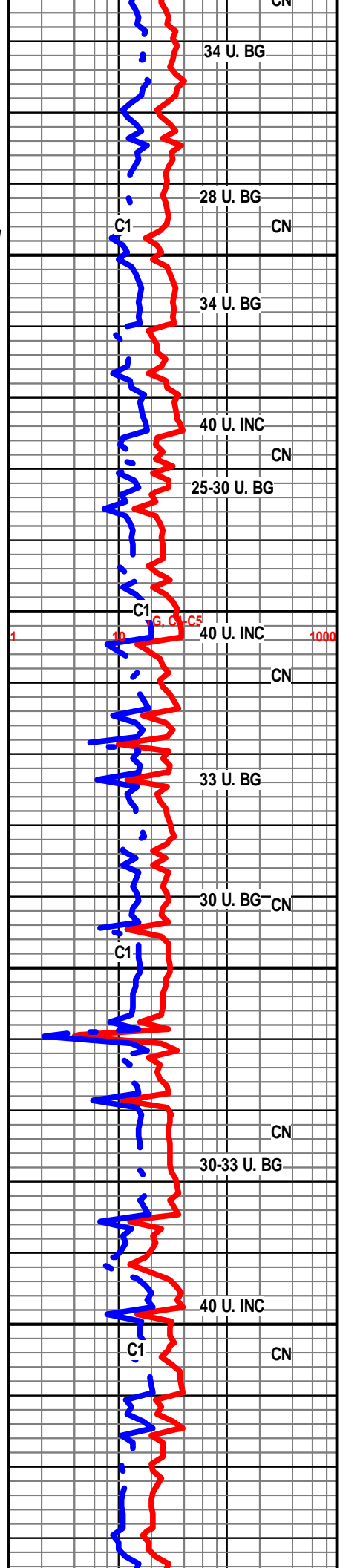
SH- RD TO YEL GRN, V GMMY THRU

LS- LT GY TO GY OFF WHT IP, V HD DNS, VF-XLN, CRYPTO-XLN, HVY TR INTER-BD SH'S, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- RD TO DK RD YEL MOTT, SFT TO GMMY, HVY TR IMBD V/V-F-GRNS THRU, TR GMMY WHT CHLK

SH- RD PRP GRN MOTT, SFT TO FRM IP, HVY TR INTER-BD LS'S, TR PYR CLSTRS, TR ORNG CHRT

SH- RD PRP YEL GRN MOTT, SFT TO GMMY, HVY TR YEL





& WHT CHRT THRU

### MISSISSIPPIAN 4450' (-1561')

LS- OFF WHT TO TN, HD DNS, VF-XLN, TR IMBD SM FOSS FRGS, ABDT YELL TO WHT CHRT THRU TRAY, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT TO CRM, HD DNS TO BRTT IP, MD-XLN, V TT SURCO MTRX, IMBD V/V/F-GRNS, HVY TR WHT CHRT, DLL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRTT IP, MD/F-XLN, TT SUCRO MTRX, WHTRD IP, IMBD VF-GRNS, HVY TR WHT & TN CHRT, TR IMBD GRN SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO TR BRTT IP, F-XLN, V TT SURCO MTRX, WHTRD IP, TR IMBD VF/F-GRNS, TR SFT TO GMMY WHT CHLK, V DLL YEL TO YEL FLO IN 50%, PR TO TR FR VUG POR IN 1%, NO VIS CUT OR SHOW

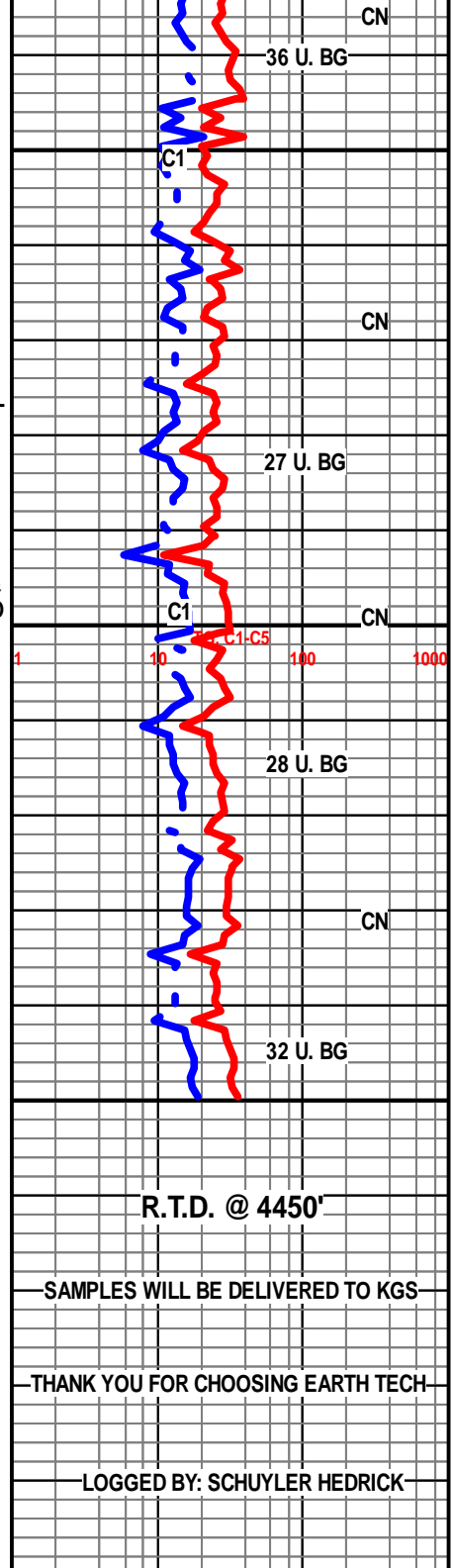
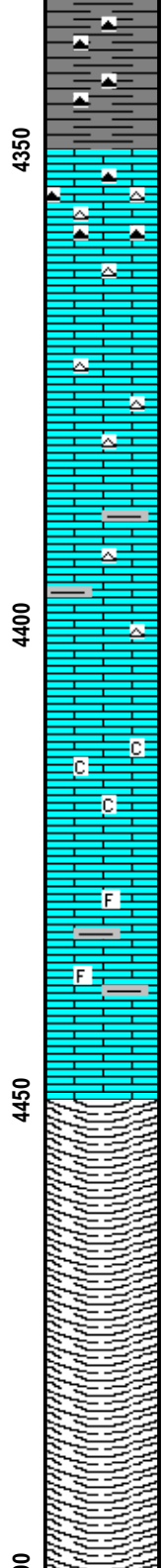
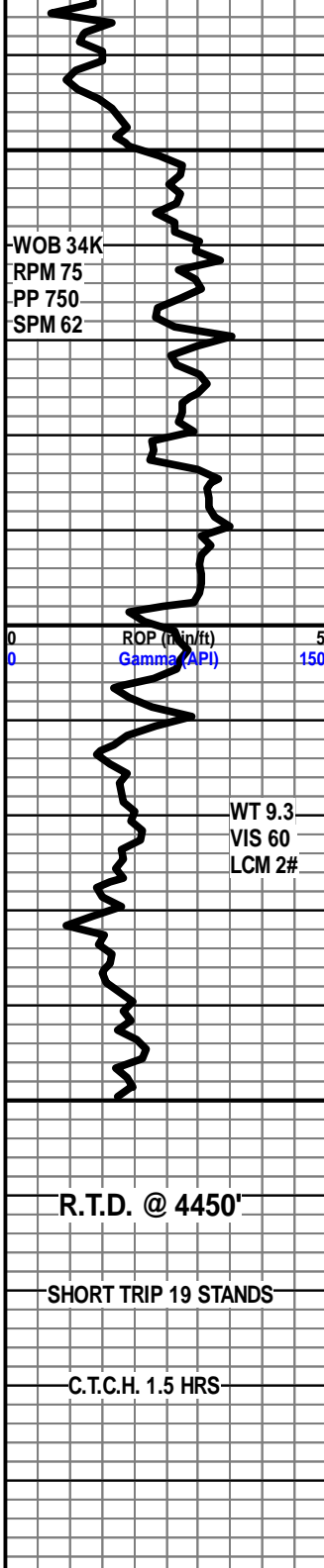
LS- CRM TO LT TN TN, HD DNS TO BRTT IP, VF/F-XLN, TT SUCRO MTRX, IMBD MICRO FOSS, TR IMBD GRN SH, DLL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

R.T.D. @ 7:00 P.M. 6/4/15

DROP SURVEY

T.O.F.L. @ 11:15 P.M. 6/4/15

WEATHERFORD/ LIBERAL, KS



R.T.D. @ 4450'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

LOGGED BY: SCHUYLER HEDRICK