

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs 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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	RISA 1-22
Doc ID	1486572

All Electric Logs Run

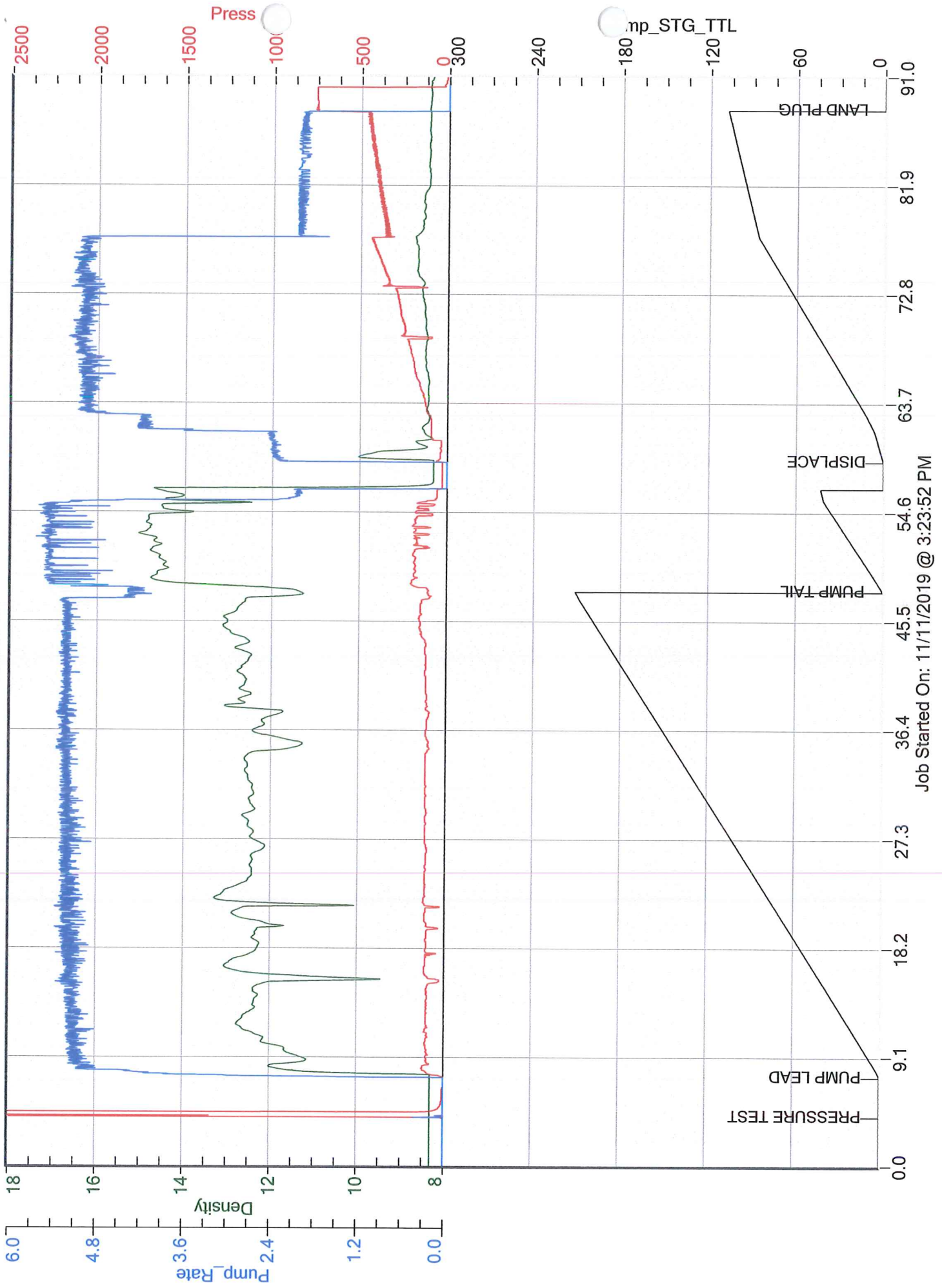
Microlog
Porosity
Resistivity
Sonic

WF
Job Log

Customer:	Berexco LLC	Cement Pump No.:	38750, 19919 7.5Hrs.	Operator TRK No.:	96816	
Address:	2020 N Bramblewood	Ticket #:	1718 19817 L	Bulk TRK No.:	33021, 37724 Corey	37712, 19883 Oscar
City, State, Zip:	Wichita Ks 672016	Job Type:	Z-42 Cement Surface Casing			
Service District:	1718 - Liberal, Ks.	Well Type:	OIL			
Well Name and No.:	Risa # 1-22	Well Location:	22-30S-33W	County:	Haskel	State: Kansas

Type of Cmt	Sacks	Additives		Truck Loaded On									
A Serv Lite	580	3% Calcium Chloride, 1/4# Polyflake		33021, 37724 Corey		Front Back							
Class C	150	2% Calcium Chloride, 1/4# Polyflake		37712, 19883 Oscar		Front Back							
						Front Back							
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel								
Lead:	12.5	1.98	10.77	1148.4	TT Man Hours:	31							
Tail:	14.8	1.34	6.33	201	# of Men on Job:	4							
Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure(PSI)		Description of Operation and Materials						
			T	C	Tubing	Casing							
11:30							ON LOCATION & SAFETY MEETING						
13:00							RIG UP						
2:25 PM							RIG TO CIRCULATE						
3:10 PM							RIG TO PT						
3:16 PM							PRESSURE TEST TO 3300PSI						
15:18	5	196.2 slurry				120	PUMP 580SX LEAD @ 12.5#						
16:00	5	35.7 slurry				170	PUMP 150SX TAIL @ 14.8#						
4:09 PM							SHUTDOWN / DROP PLUG						
16:11	3.6	10				100	DISPLACE						
	5	20				130							
16:19	5	30				180	CEMENT RETURNS @ 35BBL IN, 5BPM @ 190PSI						
	5	40				200							
	5	50				250							
	5	60				280							
	5	70				360							
	5	80				410							
16:30	5	85				440	SLOW RATE TO 2.0BPM @ 350PSI						
	2	90				370							
	2	100				430							
16:41	2	105.9				460	LAND PLUG / PRESSURE UP TO 750PSI						
							RELEASE BACK --- FLOAT HELD						
							JOB COMPLETE						
							APRROX. 276SX, 70.9BBLS						
Size Hole	12 1/4"	Depth	1720'			TYPE	Plug Container						
Size & Wt. Csg.	8 5/8" 24#	Depth	1708.07'	New / Used		Packer	Depth						
Landing Press.	409.1psi	Depth				Retainer	Depth						
Shoe Jt.	42.24'	Type				Perfs	CIBP						
Customer Signature:						Basic Representative:	Daniel Beck						
						Basic Signature:							
						Date of Service:						11/11/2019	

Berexco LLC
Risa #1-22





Liberal Yard #17 Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Berexco LLC	Cement Pump No.:	38750, 19842 12Hrs	Operator TRK No.:	78868 Angel
Address:	2020 N Bramblewood	Ticket #:	1718 19715 L	Bulk TRK No.:	30463 & 30464 27808
City, State, Zip:	Wichita, Kansas 67206-1094	Job Type:	Z-42 Cement - Production Casing		
Service District:	1717 - Liberal, Ks	Well Type:	OIL / GAS		
Well Name and No.:	Risa # 1-22	Well Location:	22-30S-33W	County:	Haskell State: Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
A Serv Lite	520	1/4# CelloFlake	30463 & 30464	Front	Back
AA-2 Premium Plus	305	10% Gyp Seal, 10% Salt, 5# Gilsonite, 5# FluidLoss, .25# Defoamer	27808	Front	Back
				Front	Back

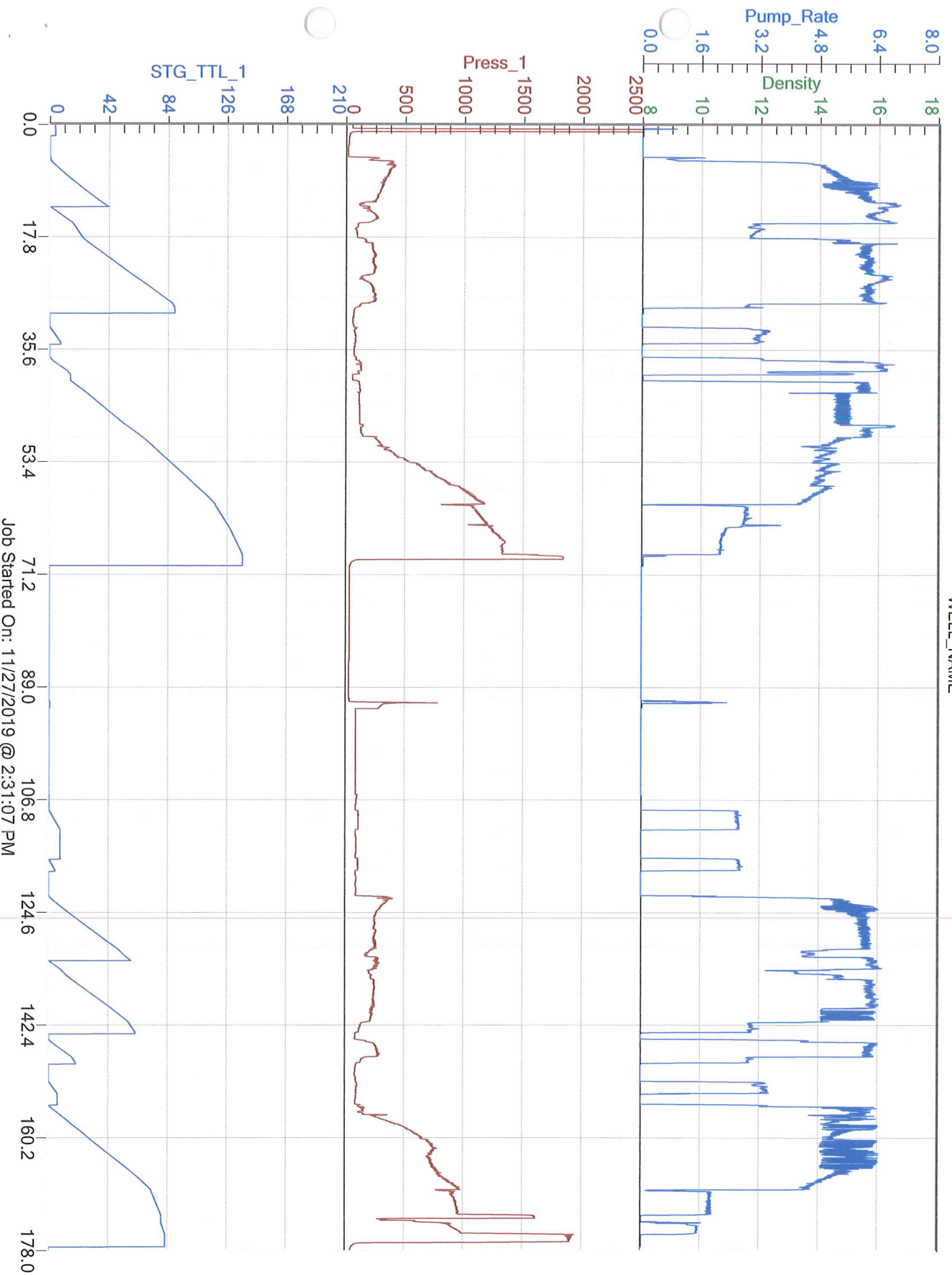
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	12.6	1.89	10.29	982.8	Man Hours:	80
Tail:	14.8	1.51	6.65	460.55	# of Men on Job:	5

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
0100							On Location
0200							Safety Meeting
0700							Ran CSG
0900							Rig Up
1334							Pressure Test to 2000psi
1340	5	37.02				400	Pump Lead 110sx @ 12.6#
1347	6	68.4				200	Switch to Tail 255sx @ 14.8#
1400							Shut down Wash to Pit --- Drop Plug
1410	6	58.3				110	Displace with H2o
1434	2.2	76.1				1300	Switch to Mud
1443						1800	Pressured Plug
1447							Release Pressure -- Baffle Held -- Drop Trip Bomb
1507	2	0.5				800	Open D.V. Tool Circulated Well 4 Hrs
1845							Pump 50sx Into Rat And Mouse
1900	6	121.1				250	Pump Lead 410sx @ 12.6#
1920	6	13.4				200	Switch To Tail 50sx @ 14.8#
1928							Shut down Wash To Pit --- Drop Plug
1932	2	76.1				960	Displace with H2o
1950						1800	Pressured Plug
1955							Release Pressure -- Closing Plug Held
							Job Completed
							**** Cement To Surface ****

Size Hole	7 7/8"	Depth	5652'		TYPE	Plug Container	
Csg.	5.5" 15.5#	Depth	5650'	New / Used	Packer	Depth	
Baffle	42'	Depth			D.V.Tool	Yes	Depth 3200'
Landing Psi1	782.2psi	landing psi2	577.6psi		Perfs		CIBP

Customer Signature:	Basic Representative:	Angel Echevarria
	Basic Signature:	
	Date of Service:	11/27/2019

CUSTOMER
WELL_NAME



Job Started On: 11/27/2019 @ 2:31:07 PM



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita, KS 67206
 ATTN:

22-30s-33w Haskell, KS

Risa 1-22

Job Ticket: 66067

DST#: 1

Test Start: 2019.11.16 @ 10:00:08

GENERAL INFORMATION:

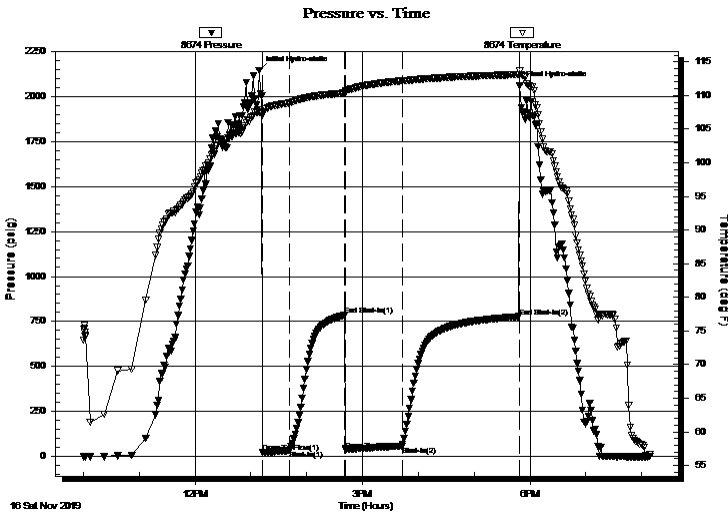
Formation: **Lansing B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:12:38
 Time Test Ended: 20:09:38
 Interval: **4162.00 ft (KB) To 4182.00 ft (KB) (TVD)**
 Total Depth: 4182.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: ft (KB)
 ft (CF)
 KB to GR/CF: ft

Serial #: 8674 Outside

Press@RunDepth: 56.34 psig @ 4163.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.16 End Date: 2019.11.16 Last Calib.: 2019.11.16
 Start Time: 10:00:13 End Time: 20:09:38 Time On Btm: 2019.11.16 @ 13:08:38
 Time Off Btm: 2019.11.16 @ 17:49:08

TEST COMMENT: IF: BOB in 2 mins. 40 3/4
 IS: No return.
 FF: BOB in 1 min. 57 1/2
 FS: Surface blow built to 1.

PRESSURE SUMMARY



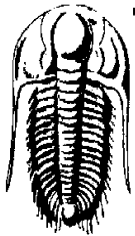
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.48	107.48	Initial Hydro-static
4	21.50	106.95	Open To Flow (1)
33	34.02	108.91	Shut-In(1)
92	783.54	110.35	End Shut-In(1)
94	36.79	110.65	Open To Flow (2)
154	56.34	112.19	Shut-In(2)
280	777.21	113.11	End Shut-In(2)
281	2060.00	113.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	gocw m 20%g 5%o 5%w 70%m	1.30
10.00	gocm 10%g 10%o 80%m	0.14
0.00	1199 GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 66067

DST#: 1

ATTN:

Test Start: 2019.11.16 @ 10:00:08

GENERAL INFORMATION:

Formation: **Lansing B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:12:38

Time Test Ended: 20:09:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4162.00 ft (KB) To 4182.00 ft (KB) (TVD)

Total Depth: 4182.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 8790

Inside

Press@RunDepth: psig @ 4163.00 ft (KB)

Start Date: 2019.11.16

End Date: 2019.11.16

Start Time: 10:00:55

End Time: 20:10:20

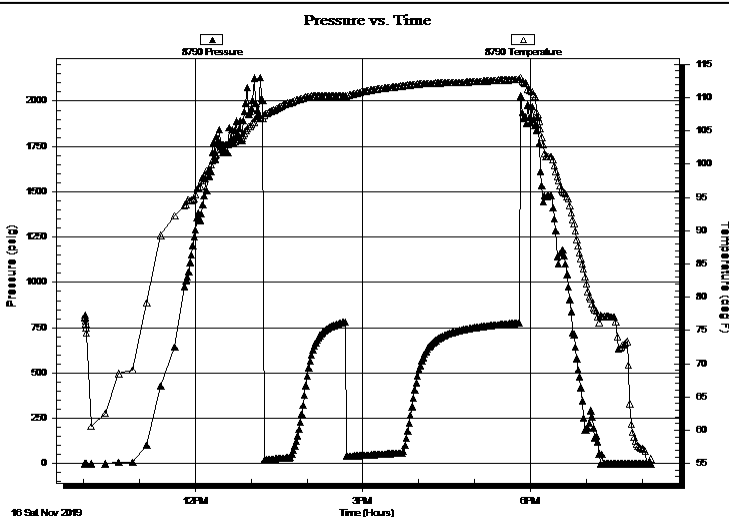
Capacity: 8000.00 psig

Last Calib.: 2019.11.16

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 2 mins. 40 3/4
IS: No return.
FF: BOB in 1 min. 57 1/2
FS: Surface blow built to 1.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
93.00	gocw m 20%g 5%o 5%w 70%m	1.30
10.00	gocm 10%g 10%o 80%m	0.14
0.00	1199 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 66067

DST#: 1

ATTN:

Test Start: 2019.11.16 @ 10:00:08

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	gocw m 20%g 5%o 5%w 70%m	1.305
10.00	gocm 10%g 10%o 80%m	0.140
0.00	1199 GIP	0.000

Total Length: 103.00 ft

Total Volume: 1.445 bbl

Num Fluid Samples: 0

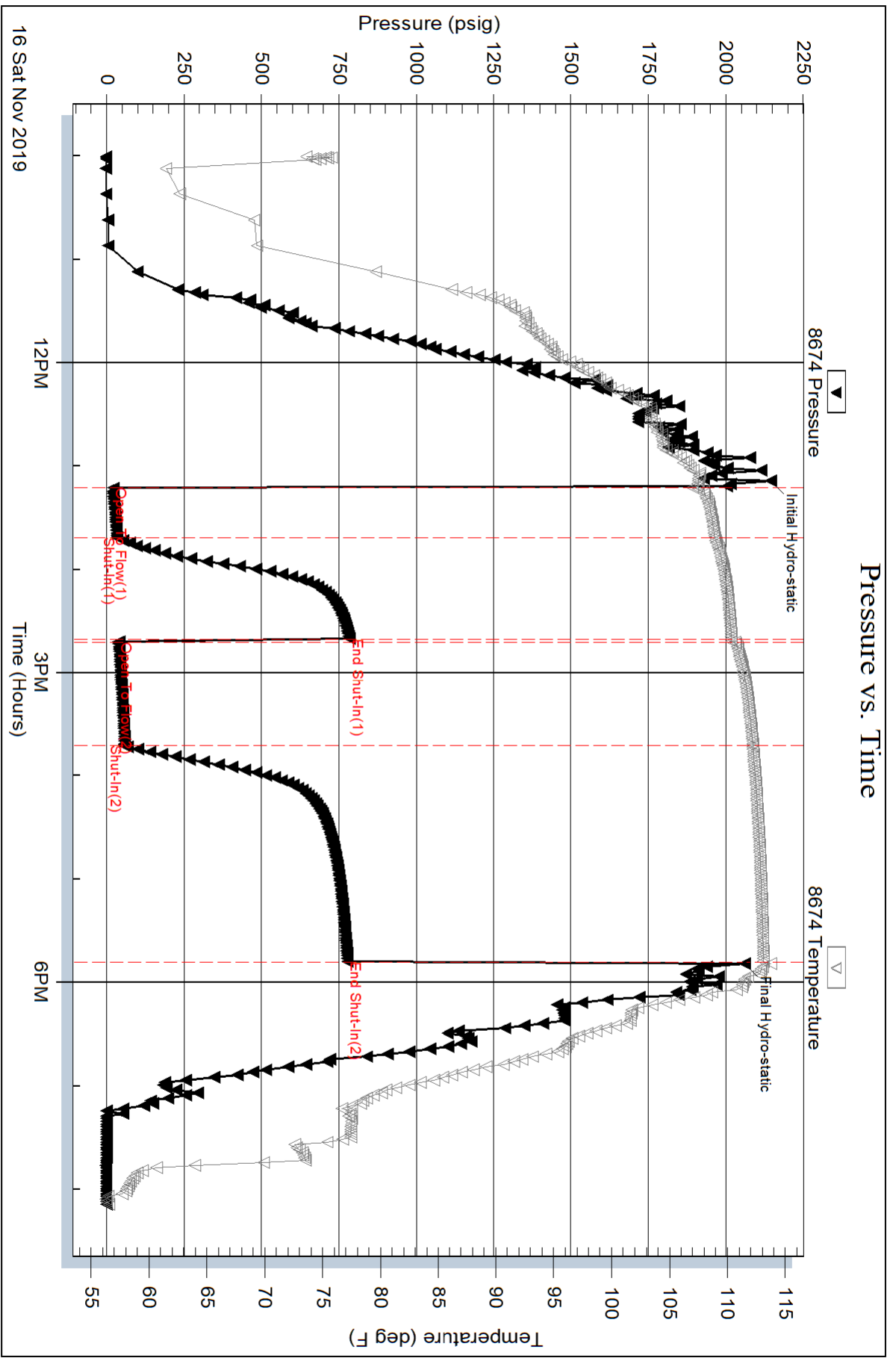
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



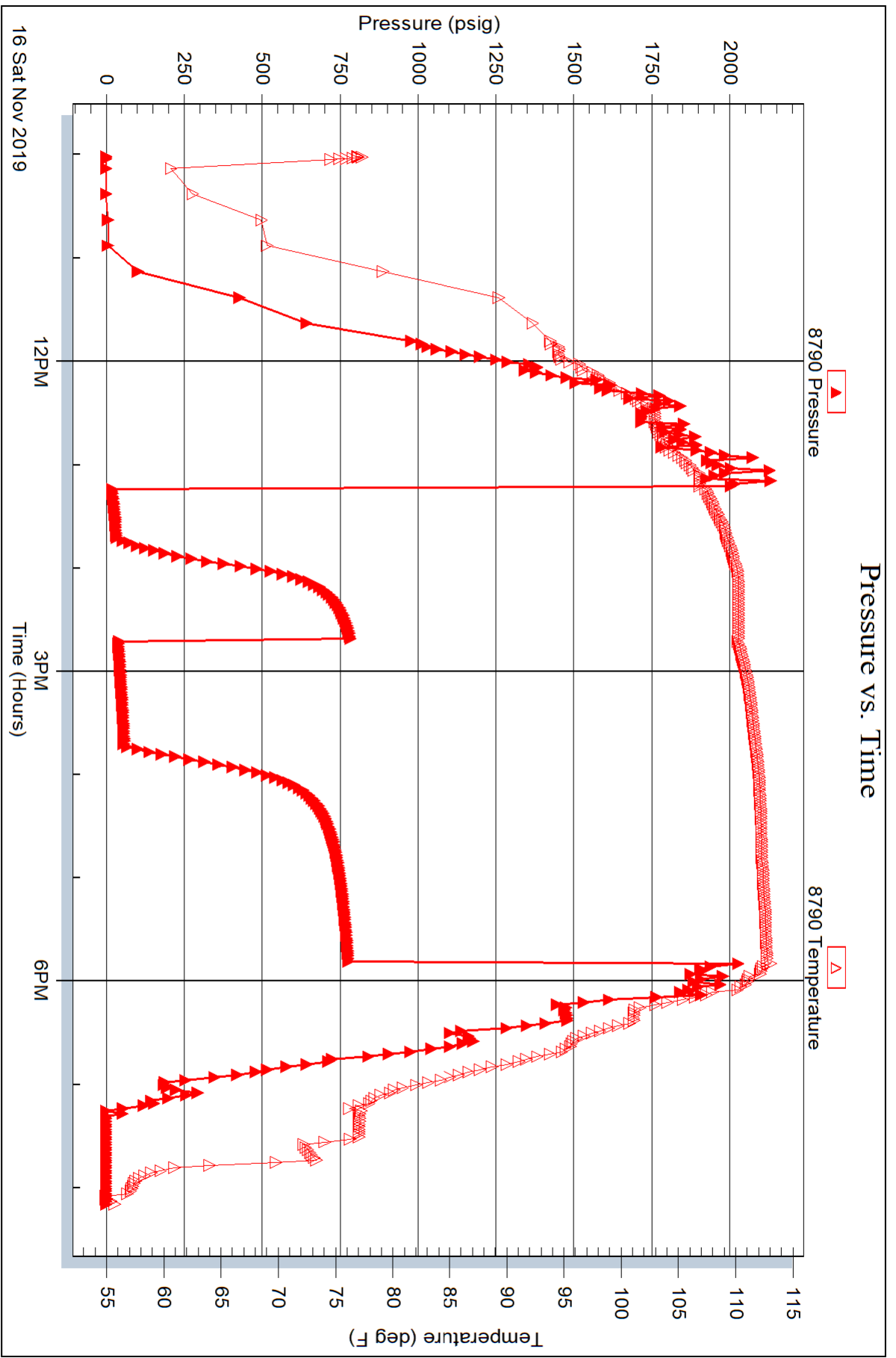
Serial #: 8790

Inside

Berexco LLC

Risa 1-22

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 66067

Printed: 2019-11-16 @ 22:10:06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita, KS 67206
 ATTN: Ed Grieves

22-30s-33w Haskell, KS

Risa 1-22

Job Ticket: 65573

DST#: 2

Test Start: 2019.11.18 @ 15:07:00

GENERAL INFORMATION:

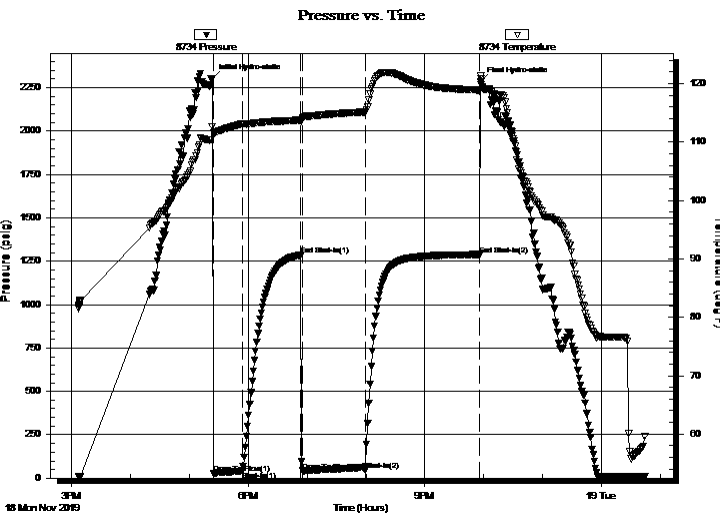
Formation: **KC " B "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:24:30
 Time Test Ended: 00:44:40
 Interval: **4656.00 ft (KB) To 4681.00 ft (KB) (TVD)**
 Total Depth: 4681.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: ft (KB)
 ft (CF)
 KB to GR/CF: ft

Serial #: 8734

Outside

Press@RunDepth: 48.26 psig @ 4657.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.18 End Date: 2019.11.19 Last Calib.: 2019.11.19
 Start Time: 15:07:01 End Time: 00:44:40 Time On Btm: 2019.11.18 @ 17:23:10
 Time Off Btm: 2019.11.18 @ 21:57:00

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 30 secs (blow increased to 92")
 60-IS-No blow back
 60-FF-B.O.B(11 inches) ASAO (blow increased to 405 1/2") GTS @ 60 mins
 120-FS-Blow back built to 5"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.04	112.62	Initial Hydro-static
2	27.37	111.51	Open To Flow (1)
31	38.01	113.11	Shut-In(1)
91	1285.09	113.76	End Shut-In(1)
93	41.60	114.21	Open To Flow (2)
157	48.26	115.10	Shut-In(2)
273	1288.94	118.90	End Shut-In(2)
274	2284.84	121.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	100% Mud	0.98
0.00	Oil spots in tool	0.00
0.00	4585' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	15.00	11.00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 65573

DST#: 2

ATTN: Ed Grieves

Test Start: 2019.11.18 @ 15:07:00

GENERAL INFORMATION:

Formation: **KC " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:24:30

Time Test Ended: 00:44:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 4656.00 ft (KB) To 4681.00 ft (KB) (TVD)

Total Depth: 4681.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4657.00 ft (KB)

Start Date: 2019.11.18

End Date: 2019.11.19

Start Time: 15:07:01

End Time: 00:44:30

Capacity: 8000.00 psig

Last Calib.: 2019.11.19

Time On Btm:

Time Off Btm:

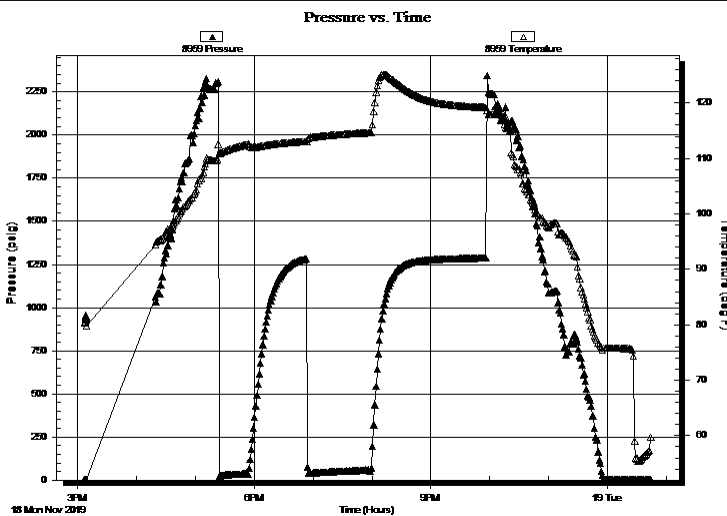
TEST COMMENT: 30-IF-B.O.B (11 inches) @ 30 secs (blow increased to 92")

60-IS-No blow back

60-FF-B.O.B(11 inches) ASAO (blow increased to 405 1/2") GTS @ 60 mins

120-FS-Blow back built to 5"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	100% Mud	0.98
0.00	Oil spots in tool	0.00
0.00	4585' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	15.00	11.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 65573

DST#: 2

ATTN: Ed Grieves

Test Start: 2019.11.18 @ 15:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	100% Mud	0.982
0.00	Oil spots in tool	0.000
0.00	4585' GIP	0.000

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 65573

DST#: 2

ATTN: Ed Grieves

Test Start: 2019.11.18 @ 15:07:00

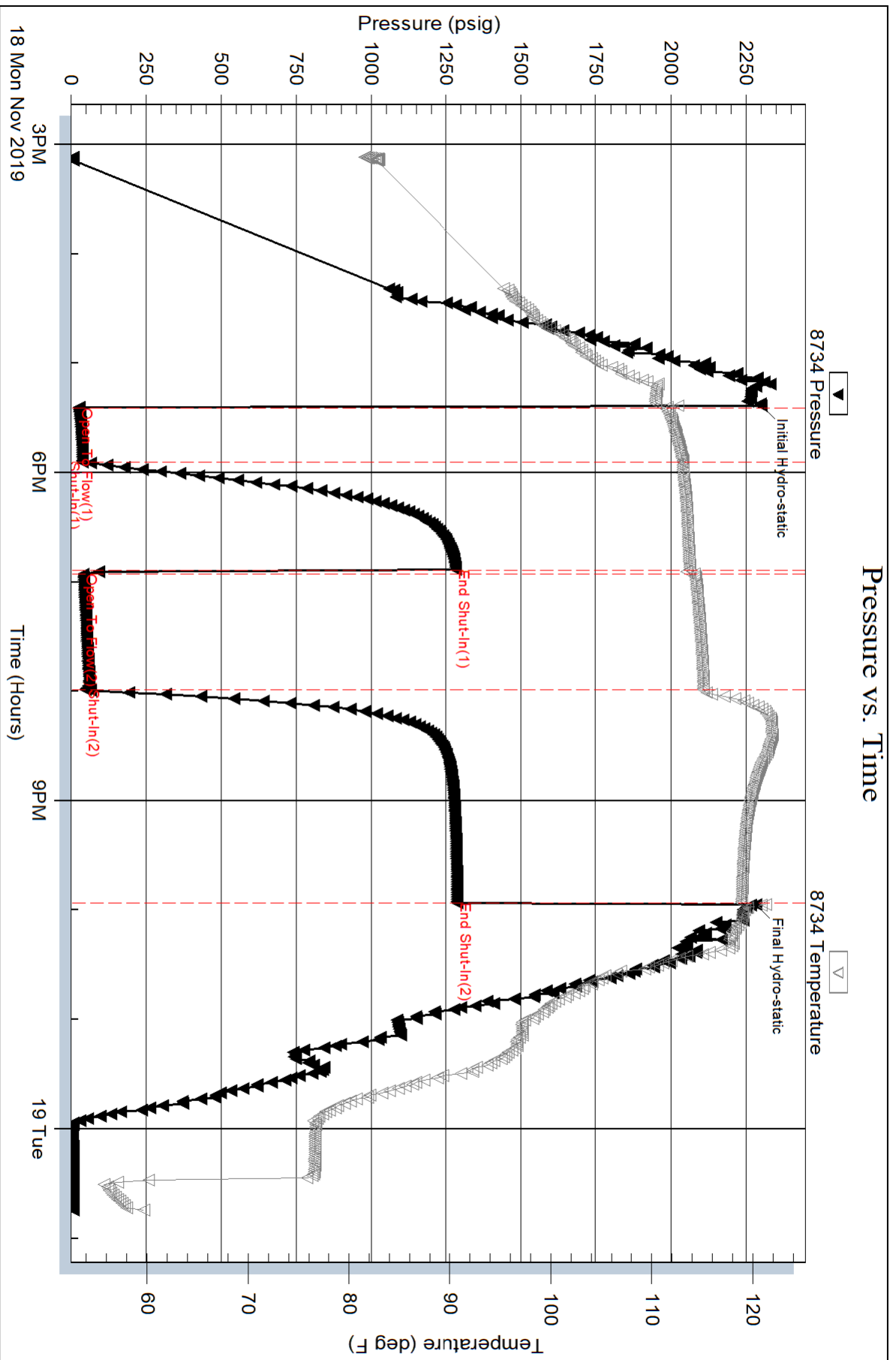
Gas Rates Information

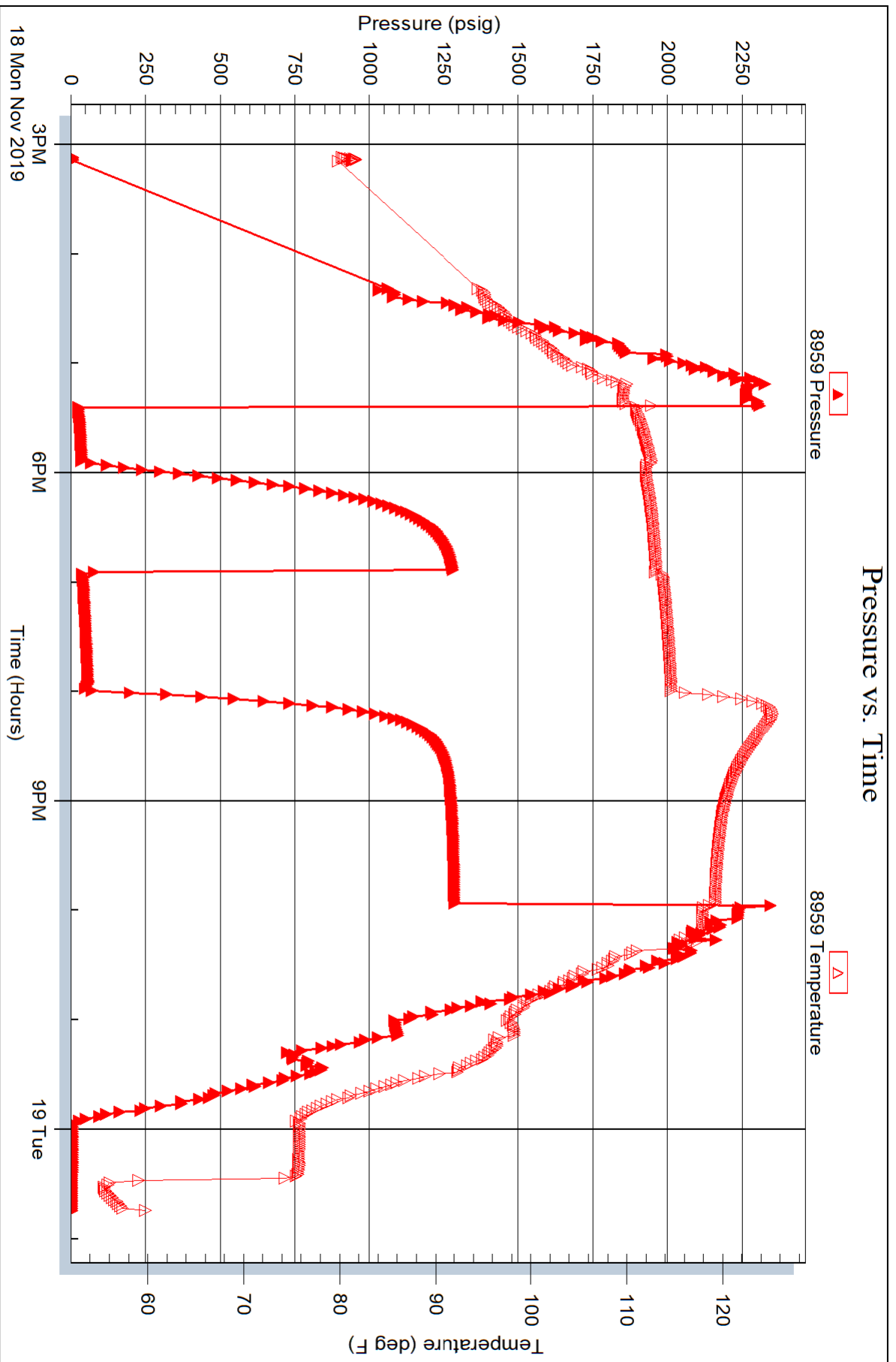
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	60	0.13	15.00	11.00

Pressure vs. Time







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita, KS 67206
 ATTN: Ed Grieves

22-30s-33w Haskell, KS

Risa 1-22

Job Ticket: 65574

DST#: 3

Test Start: 2019.11.19 @ 20:25:00

GENERAL INFORMATION:

Formation: **Marmaton " B "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:19:50
 Time Test Ended: 07:00:40
 Interval: **4790.00 ft (KB) To 4808.00 ft (KB) (TVD)**
 Total Depth: 4808.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: ft (KB)
 ft (CF)
 KB to GR/CF: ft

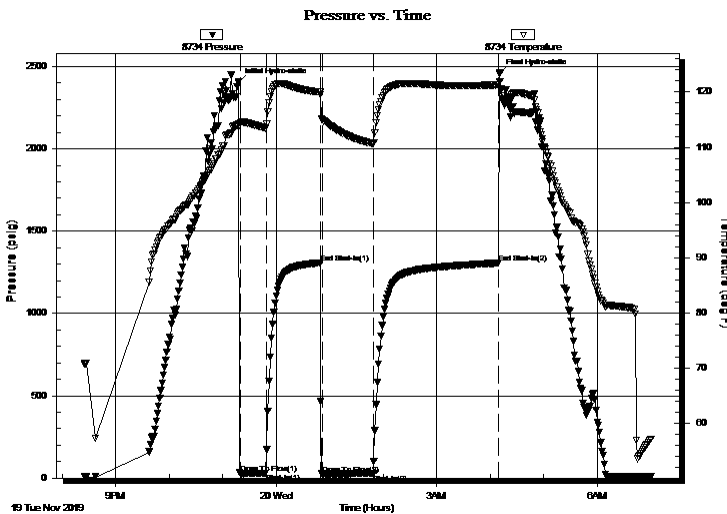
Serial #: 8734

Outside

Press@RunDepth: 25.88 psig @ 4791.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.19 End Date: 2019.11.20 Last Calib.: 2019.11.20
 Start Time: 20:25:01 End Time: 07:00:40 Time On Btm: 2019.11.19 @ 23:17:50
 Time Off Btm: 2019.11.20 @ 04:10:50

TEST COMMENT: 30-IF-B.O.B 15 secs blow increased to 214 1/4" @ 1/4" choke
 60-ISI-No blow back
 60-FF-B.O.B ASAO increased to 355 1/2" @ 1/8" choke
 120-FSI-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2402.72	114.18	Initial Hydro-static
2	26.14	114.48	Open To Flow (1)
31	27.16	113.42	Shut-In(1)
92	1306.85	119.99	End Shut-In(1)
95	24.83	114.94	Open To Flow (2)
152	25.88	110.63	Shut-In(2)
292	1305.49	121.31	End Shut-In(2)
294	2458.78	123.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud	0.14
0.00	4772' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.00	33.95
Last Gas Rate	0.13	13.00	10.26
Max. Gas Rate	0.13	13.00	10.26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

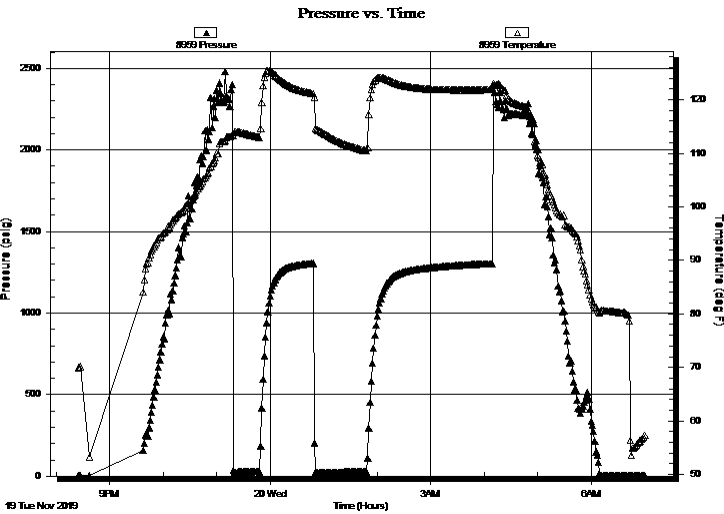
22-30s-33w Haskell, KS
Risa 1-22
Job Ticket: 65574 **DST#: 3**
Test Start: 2019.11.19 @ 20:25:00

GENERAL INFORMATION:

Formation: **Marmaton " B "**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 23:19:50 Tester: Martine Salinas
Time Test Ended: 07:00:40 Unit No: 82
Interval: 4790.00 ft (KB) To 4808.00 ft (KB) (TVD) Reference Elevations: ft (KB)
Total Depth: 4808.00 ft (KB) (TVD) ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: ft

Serial #: 8959 **Inside**
Press@RunDepth: psig @ 4791.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.11.19 End Date: 2019.11.20 Last Calib.: 2019.11.20
Start Time: 20:25:01 End Time: 07:00:30 Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-B.O.B 15 secs blow increased to 214 1/4" @ 1/4" choke
60-ISI-No blow back
60-FF-B.O.B ASAO increased to 355 1/2" @ 1/8" choke
120-FSI-No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud	0.14
0.00	4772' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.00	33.95
Last Gas Rate	0.13	13.00	10.26
Max. Gas Rate	0.13	13.00	10.26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 65574

DST#: 3

ATTN: Ed Grieves

Test Start: 2019.11.19 @ 20:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	100% Mud	0.140
0.00	4772' GIP	0.000

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

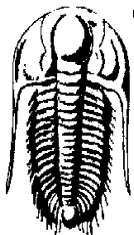
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 65574

DST#: 3

ATTN: Ed Grieves

Test Start: 2019.11.19 @ 20:25:00

Gas Rates Information

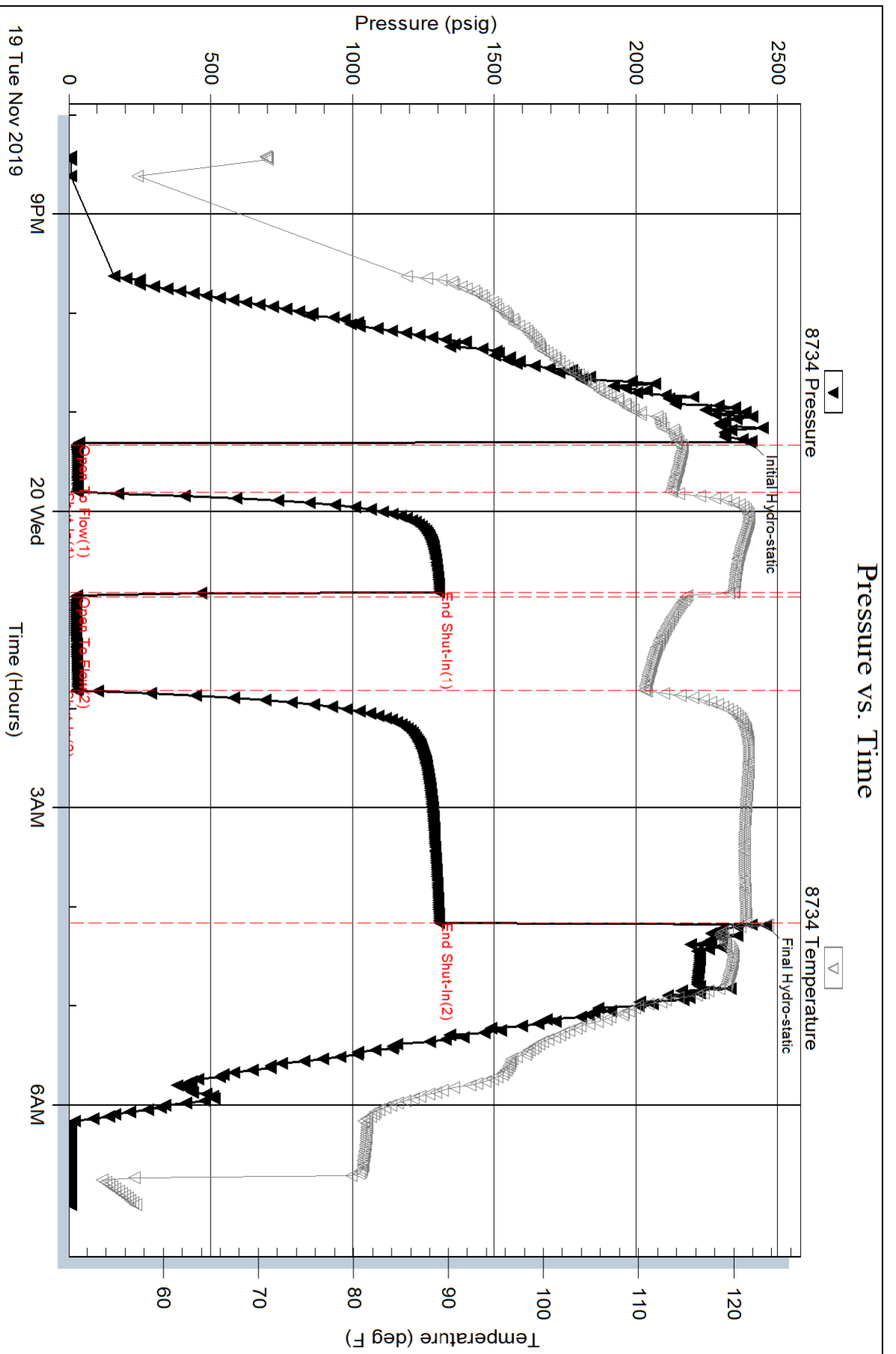
Temperature: 59 (deg F)

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	25	0.25	7.00	33.95
1	30	0.25	7.69	35.04
2	10	0.25	7.75	35.14
2	20	0.25	7.50	34.74
2	30	0.13	8.75	8.66
2	40	0.13	10.78	9.42
2	50	0.13	12.10	9.92
2	60	0.13	13.00	10.26



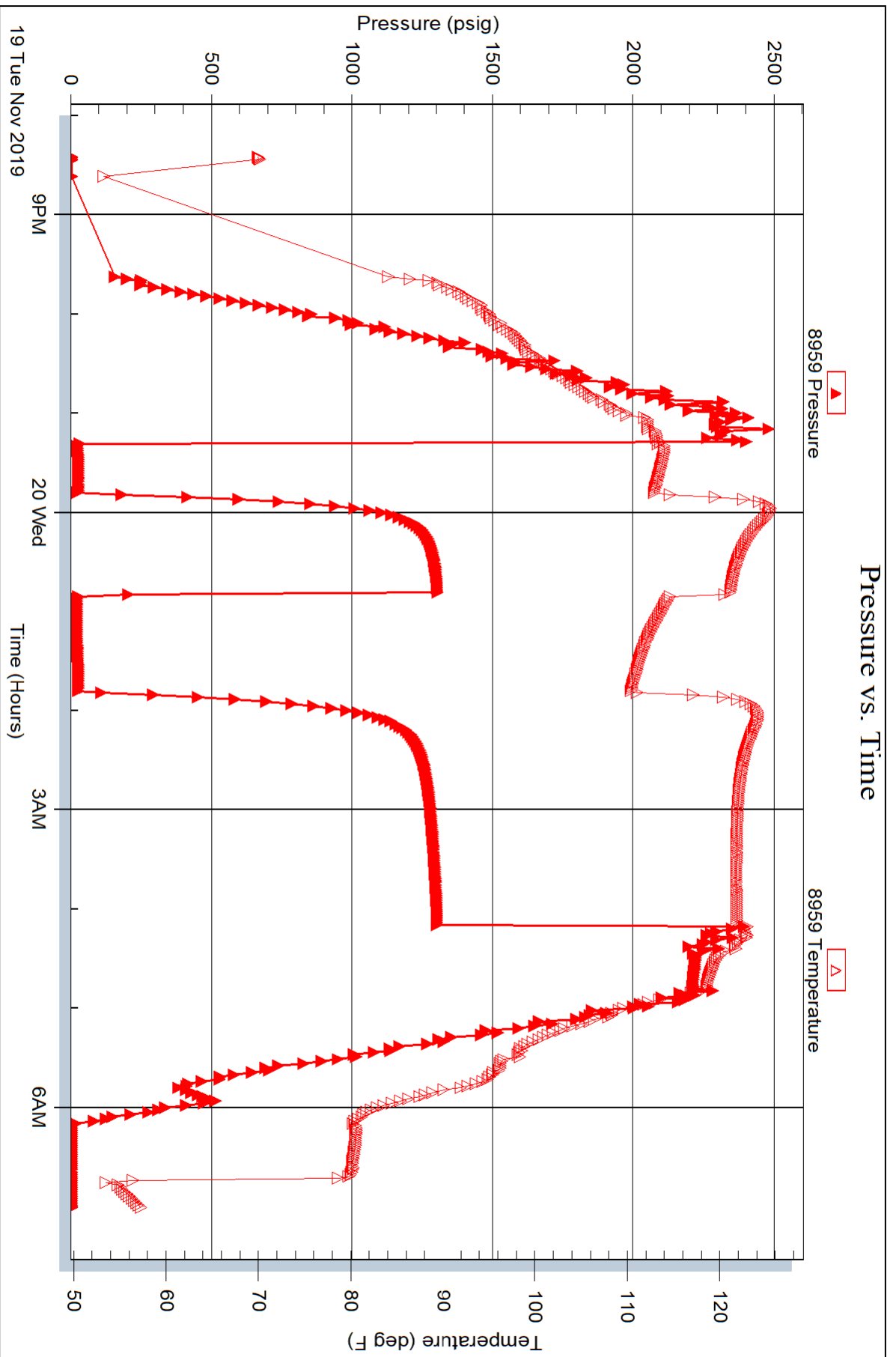
Serial #: 8959

Inside

Berexco LLC

Risa 1-22

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita, KS 67206
 ATTN: Ed Grieves

22-30s-33w Haskell, KS

Risa 1-22

Job Ticket: 65575 **DST#: 4**

Test Start: 2019.11.21 @ 04:10:00

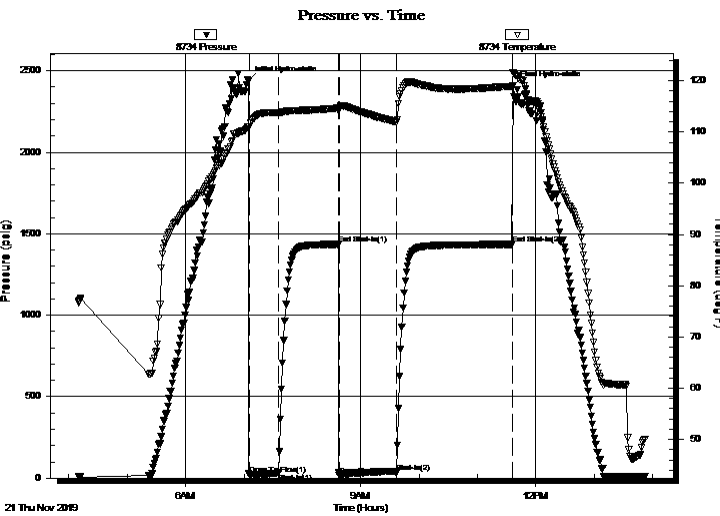
GENERAL INFORMATION:

Formation: **" Pawnee "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:05:40
 Time Test Ended: 13:52:40
 Interval: **4878.00 ft (KB) To 4900.00 ft (KB) (TVD)**
 Total Depth: 4900.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: ft (KB)
 ft (CF)
 KB to GR/CF: ft

Serial #: 8734 Outside

Press@RunDepth: 32.80 psig @ 4879.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.21 End Date: 2019.11.21 Last Calib.: 2019.11.21
 Start Time: 04:10:01 End Time: 13:52:40 Time On Btm: 2019.11.21 @ 07:04:00
 Time Off Btm: 2019.11.21 @ 11:36:30

TEST COMMENT: 30-IF-B.O.B @ 8 1/2 mins built to 195"
 60-ISI-No blow back
 60-FF-B.O.B ASAO built to 505" on 1/8" choke G.T.S @ 25 mins
 120-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2437.09	111.08	Initial Hydro-static
2	21.56	111.00	Open To Flow (1)
32	30.21	113.70	Shut-In(1)
93	1435.00	114.65	End Shut-In(1)
94	19.05	114.83	Open To Flow (2)
153	32.80	111.86	Shut-In(2)
272	1434.95	118.92	End Shut-In(2)
273	2408.35	121.64	Final Hydro-static

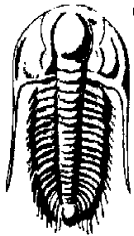
Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%Mud	0.28
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	11.50	9.69
Last Gas Rate	0.13	17.46	11.93
Max. Gas Rate	0.13	17.46	11.93



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

22-30s-33w Haskell, KS

Risa 1-22

Job Ticket: 65575

DST#: 4

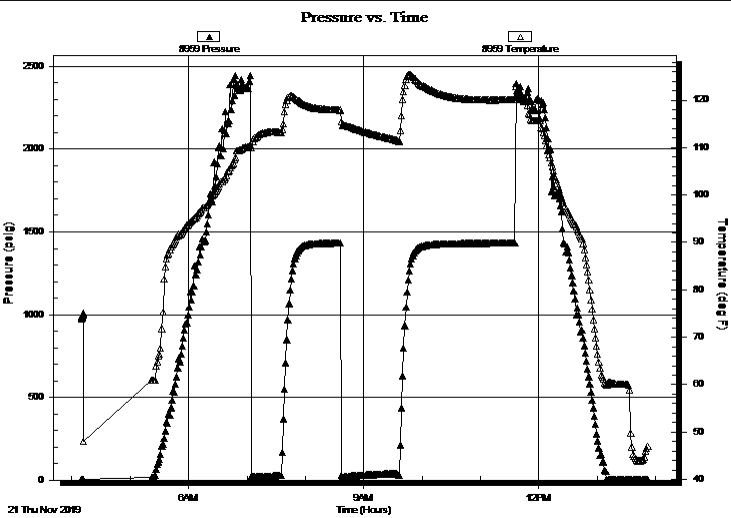
Test Start: 2019.11.21 @ 04:10:00

GENERAL INFORMATION:

Formation: " Pawnee "			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 07:05:40		Tester: Martine Salinas	
Time Test Ended: 13:52:40		Unit No: 82	
Interval: 4878.00 ft (KB) To 4900.00 ft (KB) (TVD)		Reference Elevations:	ft (KB)
Total Depth: 4900.00 ft (KB) (TVD)			ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF:	ft

Serial #: 8959	Inside				
Press@RunDepth:	psig @	4879.00 ft (KB)	Capacity:	8000.00 psig	
Start Date: 2019.11.21	End Date: 2019.11.21		Last Calib.: 2019.11.21		
Start Time: 04:10:01	End Time: 13:52:30		Time On Btm:		
			Time Off Btm:		

TEST COMMENT: 30-IF-B.O.B @ 8 1/2 mins built to 195"
60-ISI-No blow back
60-FF-B.O.B ASAO built to 505" on 1/8" choke G.T.S @ 25 mins
120-FSI-No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%Mud	0.28
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	11.50	9.69
Last Gas Rate	0.13	17.46	11.93
Max. Gas Rate	0.13	17.46	11.93

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 65575

DST#: 4

ATTN: Ed Grieves

Test Start: 2019.11.21 @ 04:10:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.80 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
20.00	100%Mud	0.281
0.00	GTS	0.000

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

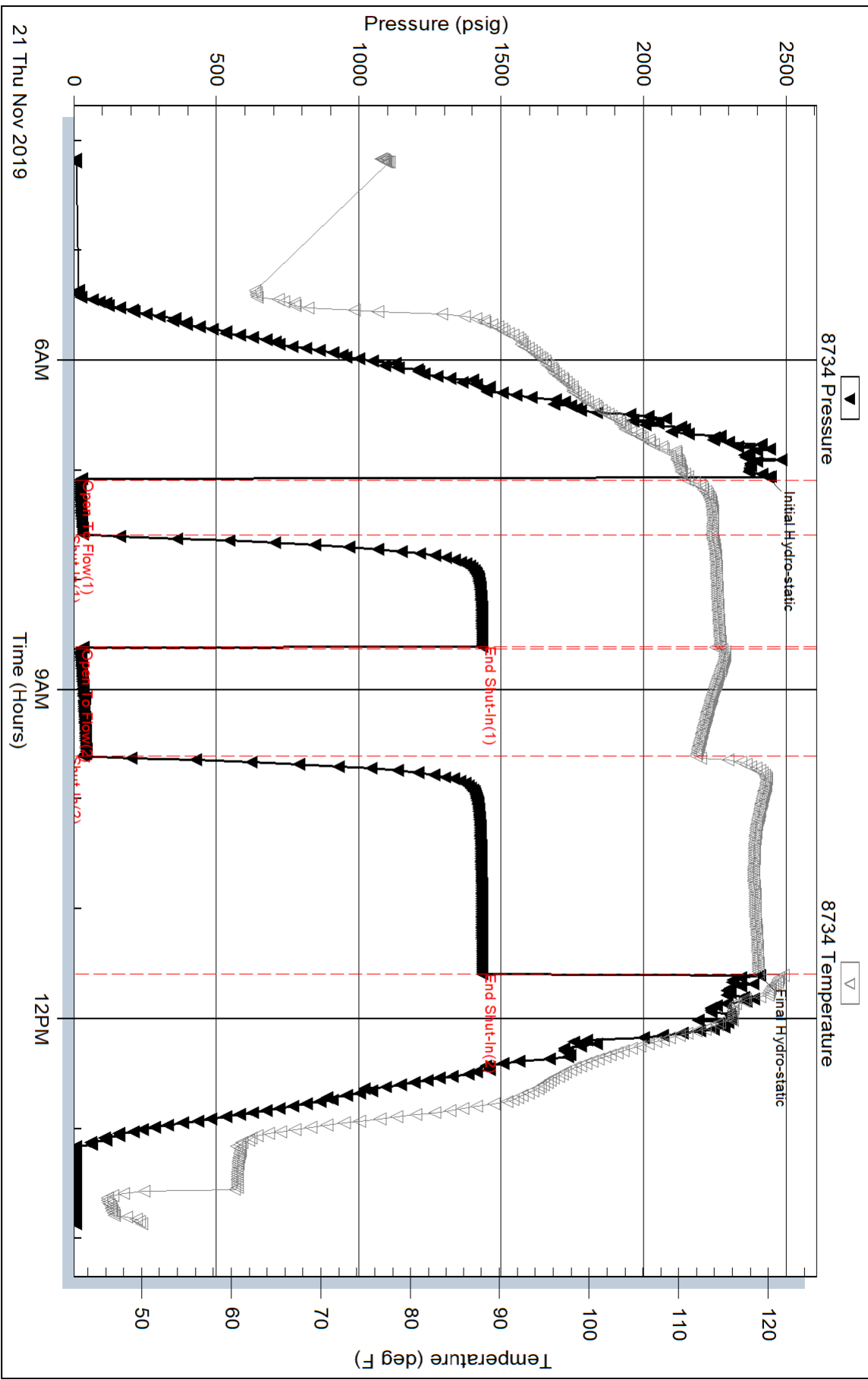
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



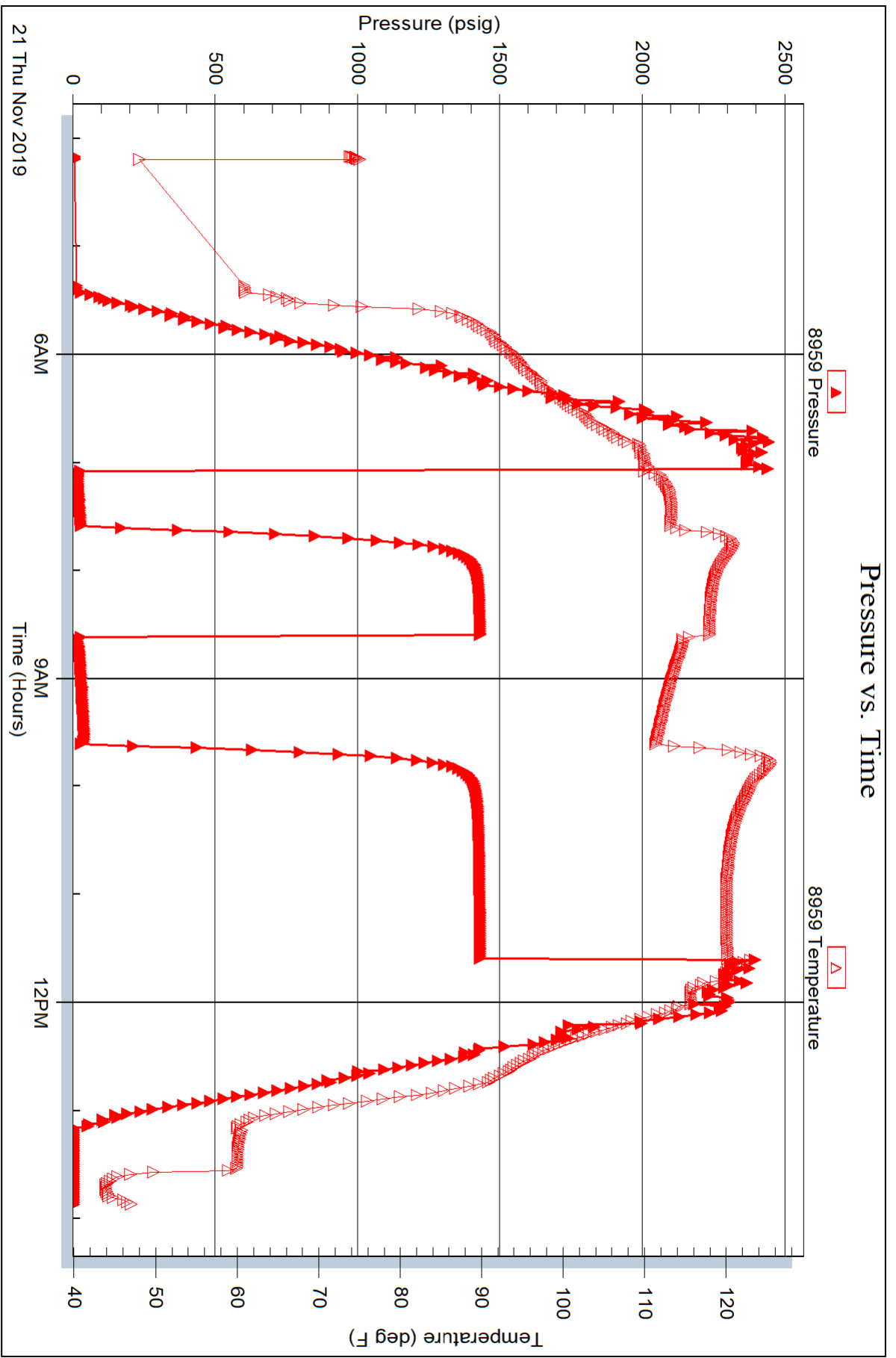
Serial #: 8959

Inside

Berexco LLC

Risa 1-22

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 65575

Printed: 2019.11.21 @ 14:41:57



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita, KS 67206
 ATTN: Ed Grieves

22-30s-33w Haskell, KS

Risa 1-22

Job Ticket: 66101

DST#: 5

Test Start: 2019.11.23 @ 03:40:00

GENERAL INFORMATION:

Formation: **Atoka**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:03:20
 Tester: Martine Salinas
 Time Test Ended: 13:55:10
 Unit No: 82
 Interval: **5213.00 ft (KB) To 5224.00 ft (KB) (TVD)**
 Reference Elevations: ft (KB)
 Total Depth: 5224.00 ft (KB) (TVD)
 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: ft

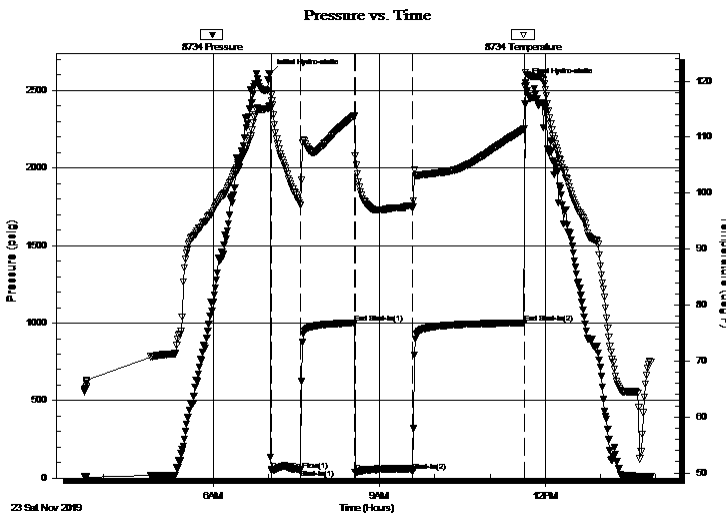
Serial #: 8734

Outside

Press@RunDepth: 44.14 psig @ 5214.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.23 End Date: 2019.11.23 Last Calib.: 2019.11.23
 Start Time: 03:40:01 End Time: 13:55:10 Time On Btm: 2019.11.23 @ 07:01:10
 Time Off Btm: 2019.11.23 @ 11:38:50

TEST COMMENT: 30-IF-B.O.B 15 secs G.T.S @ 15 mins
 60-ISI-S.blow back @ 2 mins built to 1 1/4"
 60-FF-B.O.B ASAO built to 27 1/2 P.S.I. on 3/8" choke
 120-FS-S.blow back built to 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2611.10	115.66	Initial Hydro-static
3	50.95	116.57	Open To Flow (1)
34	53.47	97.83	Shut-In(1)
92	999.16	113.79	End Shut-In(1)
93	36.91	106.70	Open To Flow (2)
156	44.14	97.48	Shut-In(2)
276	1000.83	111.46	End Shut-In(2)
278	2548.81	121.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	100%Mud	0.35
0.00	5167' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	30.00	299.51
Last Gas Rate	0.38	27.21	152.43
Max. Gas Rate	0.50	30.00	299.51

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

22-30s-33w Haskell, KS

Risa 1-22

Job Ticket: 66101 **DST#: 5**
Test Start: 2019.11.23 @ 03:40:00

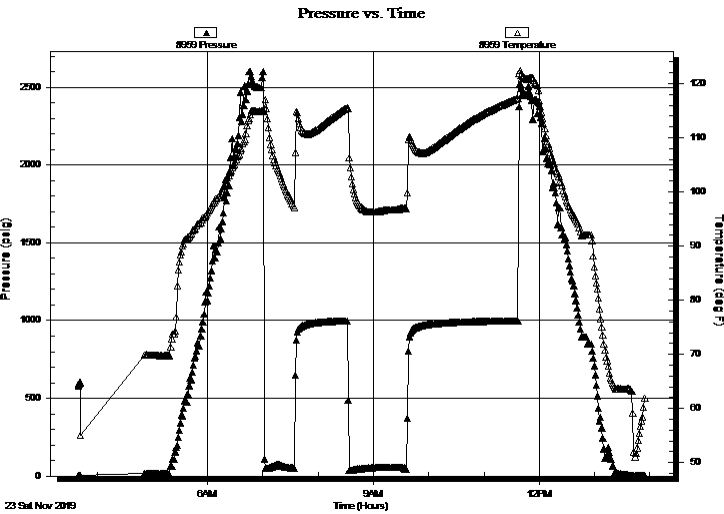
GENERAL INFORMATION:

Formation: **Atoka**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 07:03:20 Tester: Martine Salinas
Time Test Ended: 13:55:10 Unit No: 82
Interval: **5213.00 ft (KB) To 5224.00 ft (KB) (TVD)** Reference Elevations: ft (KB)
Total Depth: 5224.00 ft (KB) (TVD) ft (CF)
Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 5214.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.11.23 End Date: 2019.11.23 Last Calib.: 2019.11.23
Start Time: 03:40:01 End Time: 13:55:10 Time On Btm: Time Off Btm:

TEST COMMENT: 30-IF-B.O.B 15 secs G.T.S @ 15 mins
60-ISI-S.blow back @ 2 mins built to 1 1/4"
60-FF-B.O.B ASAO built to 27 1/2 P.S.I. on 3/8" choke
120-FSI-S.blow back built to 1/2"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	100%Mud	0.35
0.00	5167' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	30.00	299.51
Last Gas Rate	0.38	27.21	152.43
Max. Gas Rate	0.50	30.00	299.51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 66101

DST#: 5

ATTN: Ed Grieves

Test Start: 2019.11.23 @ 03:40:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	100%Mud	0.351
0.00	5167' GIP	0.000

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 66101

DST#: 5

ATTN: Ed Grieves

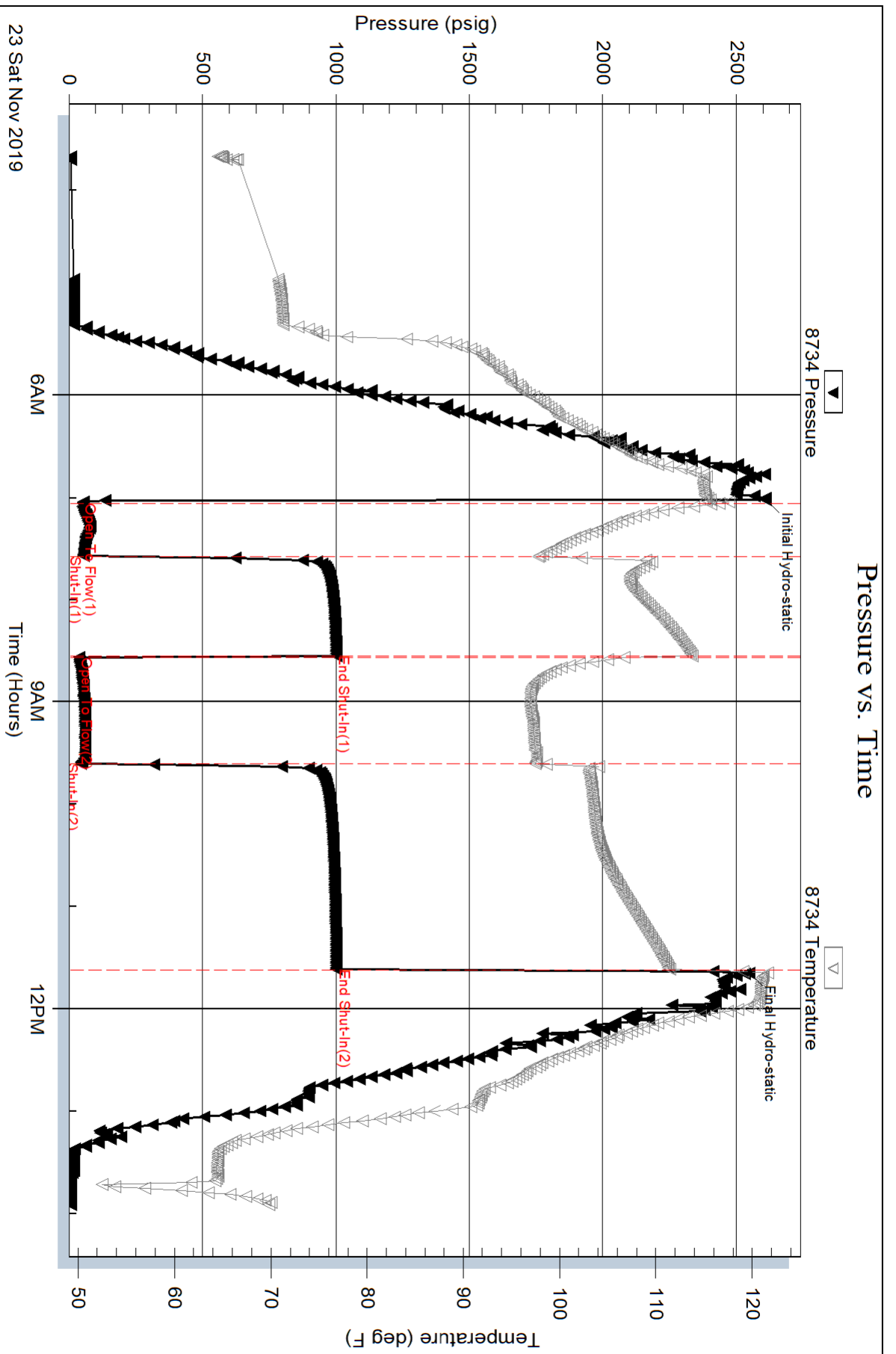
Test Start: 2019.11.23 @ 03:40:00

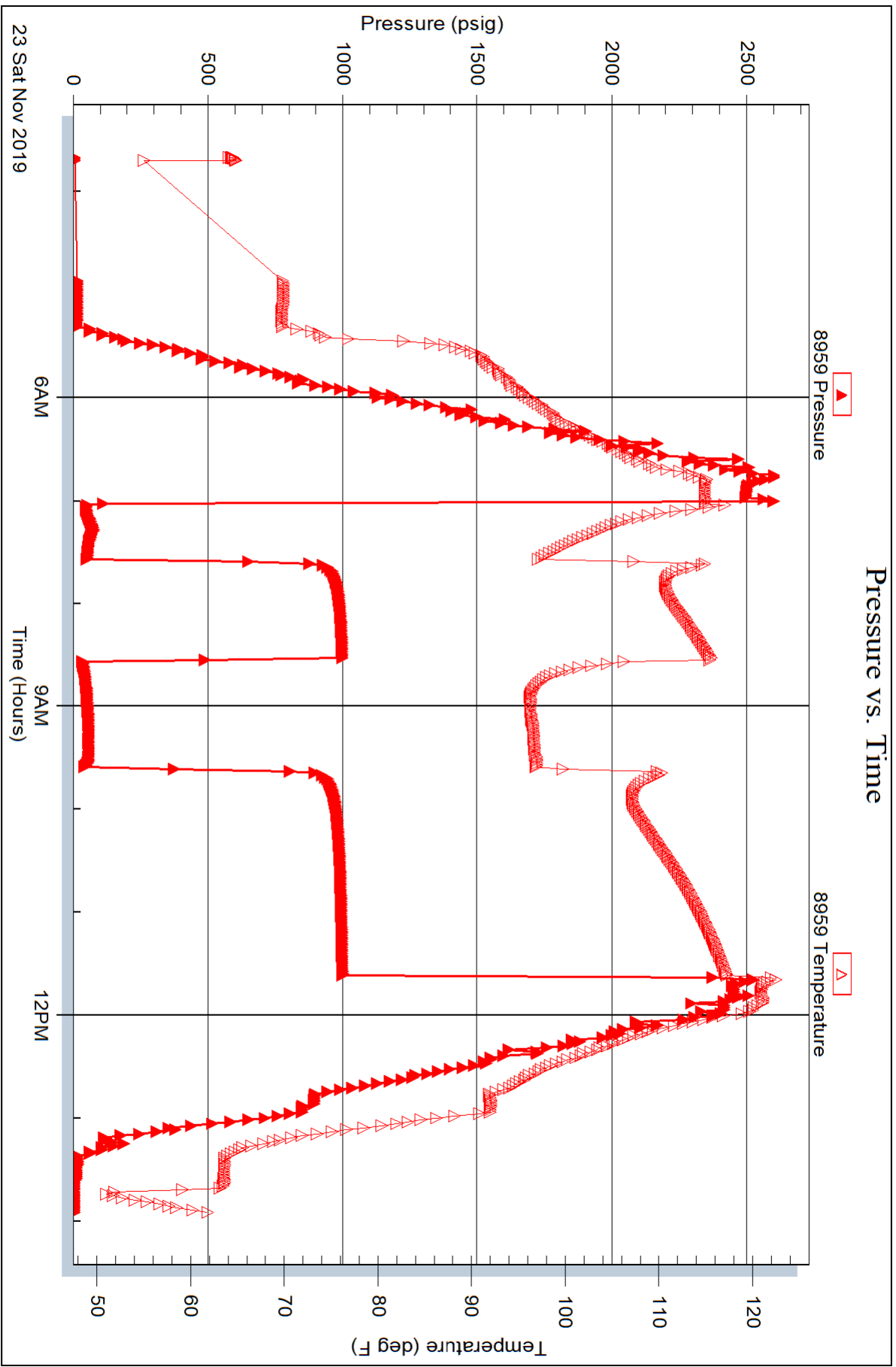
Gas Rates Information

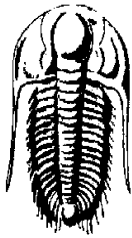
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	17	0.50	30.00	299.51
1	20	0.50	24.16	260.11
1	25	0.50	18.38	221.12
1	30	0.50	15.53	201.90
2	5	0.38	11.77	95.87
2	10	0.38	18.69	121.22
2	20	0.38	24.83	143.71
2	30	0.38	27.13	152.13
2	40	0.38	27.48	153.42
2	50	0.38	27.38	153.05
2	60	0.38	27.21	152.43







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 66102

DST#: 6

ATTN: Ed Grieves

Test Start: 2019.11.24 @ 20:25:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 02:34:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 5327.00 ft (KB) To 5381.00 ft (KB) (TVD)

Reference Elevations: ft (KB)

Total Depth: 5381.00 ft (KB) (TVD)

ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: ft

Serial #: 8734 Outside

Press@RunDepth: psig @ 5328.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.24

End Date: 2019.11.25

Last Calib.: 2019.11.25

Start Time: 20:25:01

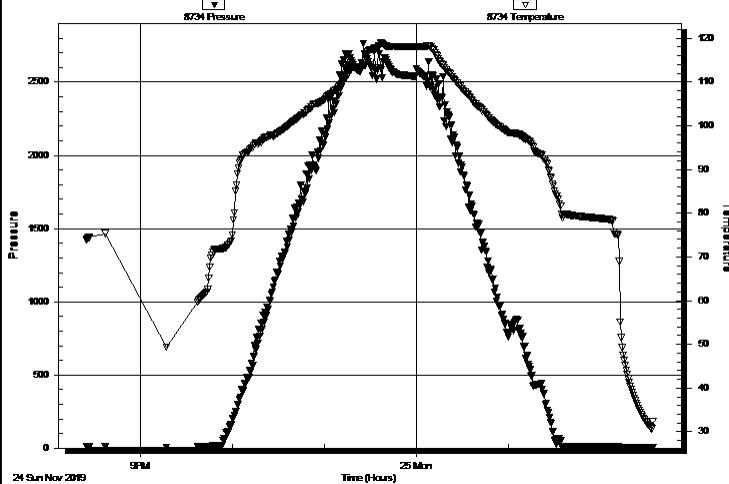
End Time: 02:34:20

Time On Btm:

Time Off Btm:

TEST COMMENT: Mis-Run Opened tool & lost fluid in hole, Picked up & bled off floor manifold & tried to reseat packers, Lost fluid again, Pull tool

Pressure vs. Time



PRESSURE SUMMARY

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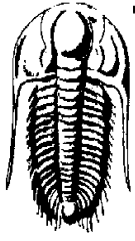
Recovery

Length (ft)	Description	Volume (bbl)
160.00	100% Mud	2.24

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 66102

DST#: 6

ATTN: Ed Grieves

Test Start: 2019.11.24 @ 20:25:00

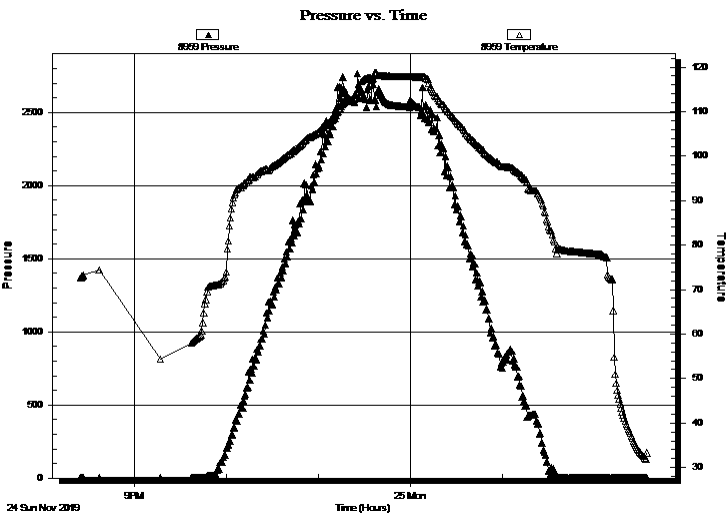
GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: Tester: Martine Salinas
 Time Test Ended: 02:34:20 Unit No: 82
 Interval: **5327.00 ft (KB) To 5381.00 ft (KB) (TVD)** Reference Elevations: ft (KB)
 Total Depth: 5381.00 ft (KB) (TVD) ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 5328.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.24 End Date: 2019.11.25 Last Calib.: 2019.11.25
 Start Time: 20:25:01 End Time: 02:34:10 Time On Btm:
 Time Off Btm:

TEST COMMENT: Mis-Run Opened tool & lost fluid in hole, Picked up & bled off floor manifold & tried to reseat packers, Lost fluid again, Pull tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
160.00	100% Mud	2.24

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 66102

DST#: 6

ATTN: Ed Grieves

Test Start: 2019.11.24 @ 20:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	100% Mud	2.244

Total Length: 160.00 ft Total Volume: 2.244 bbl

Num Fluid Samples: 0

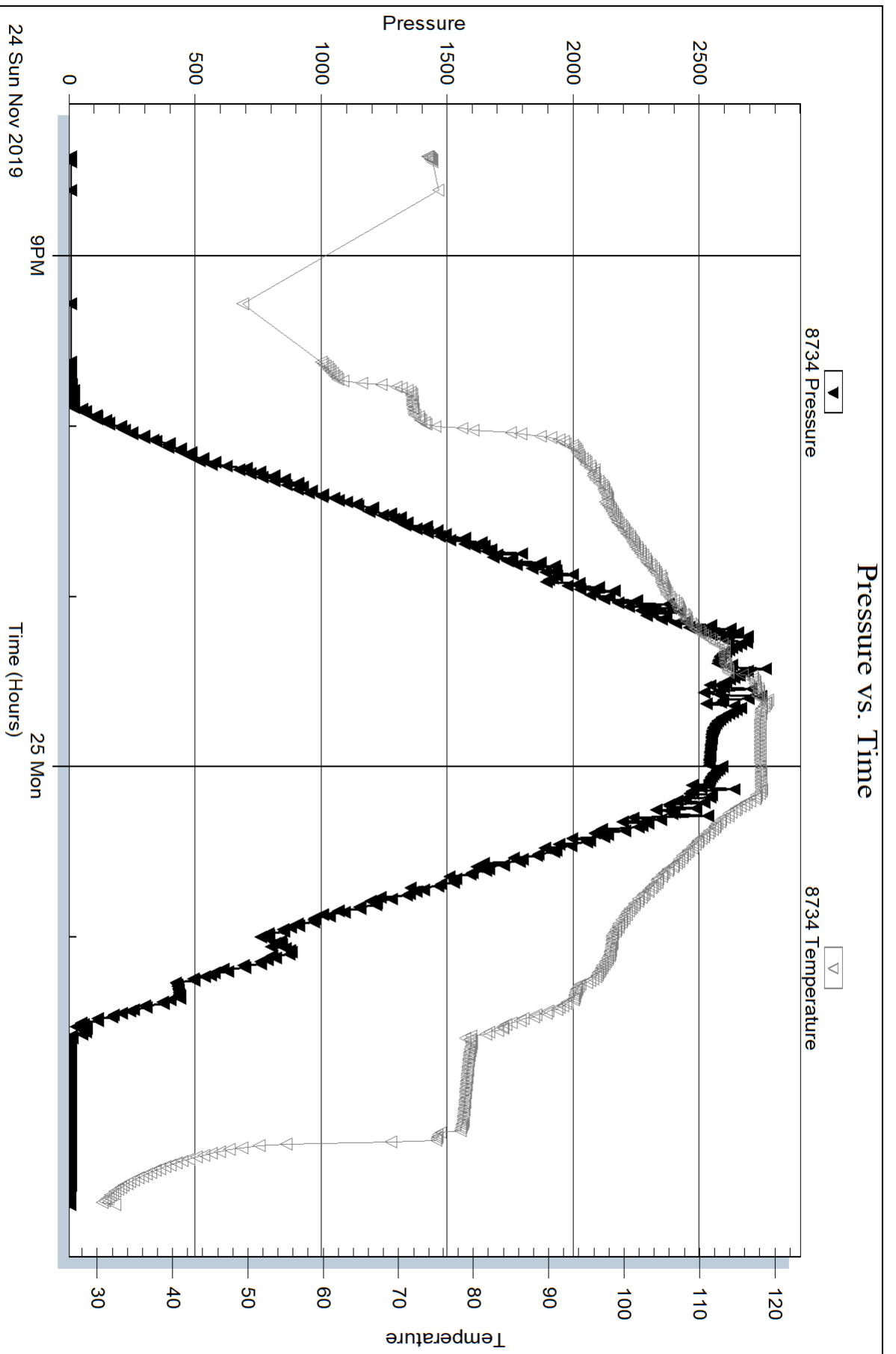
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Mis-Run opened tool & lost fluid in hole, Picked up & bled off floor manifold & tried to re seat packers lost fluid again, Pull tool
Pulled 38K over STWT had to set off jars to come loose



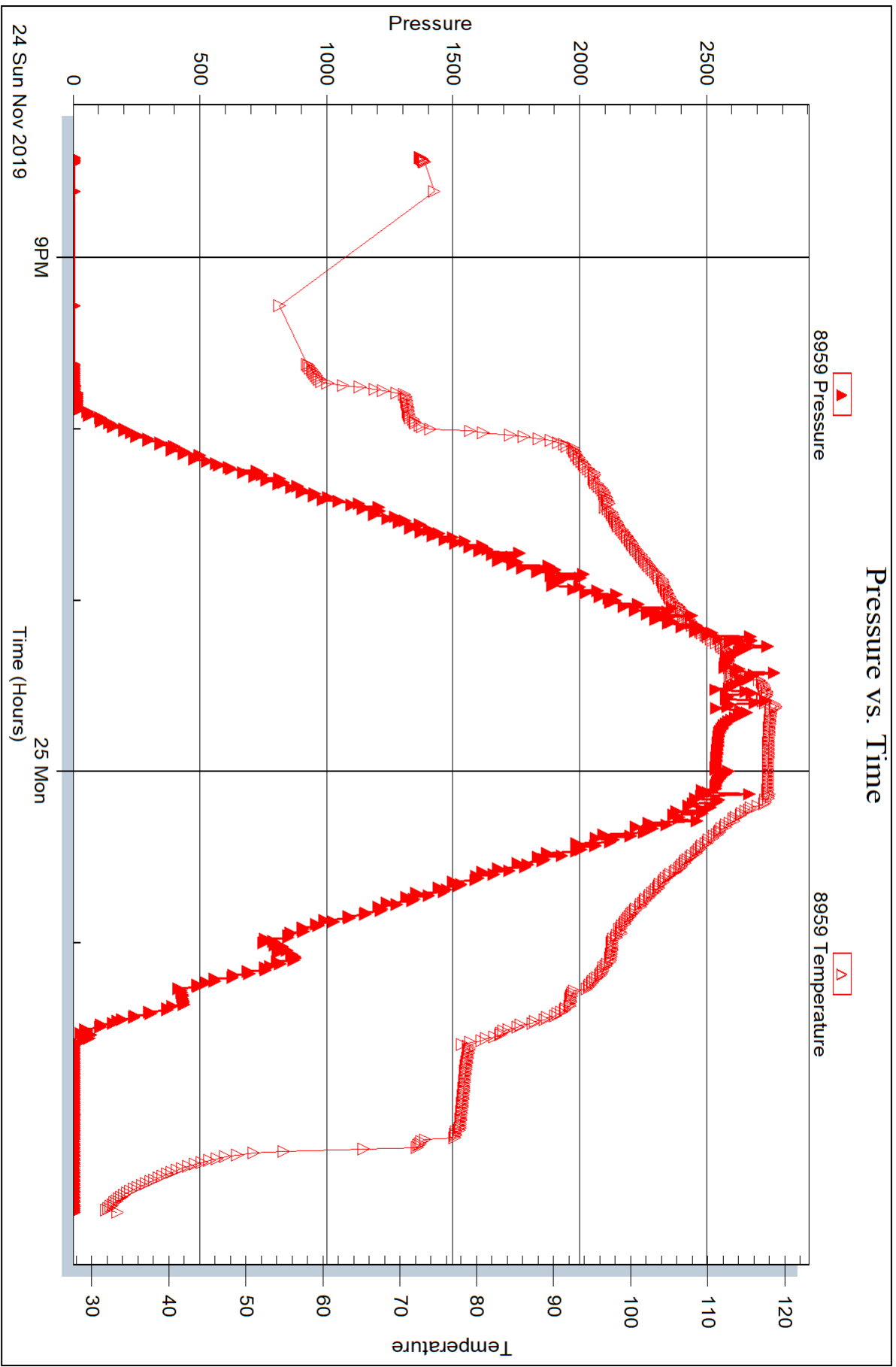
Serial #: 8959

Inside

Berexco LLC

Risa 1-22

DST Test Number: 6





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

Well Name: Risa 1-22
Well Id:
Location: Sec 22 T30S R33W, Haskell County, Kansas
License Number: 15-081-22206-00
Spud Date: Nov 9th, 2019
Surface Coordinates: 2150' FNL & 500' FWL
Region: Victory
Drilling Completed: Nov 26th, 2019

Bottom Hole
Coordinates:
Ground Elevation (ft): 2947' K.B. Elevation (ft): 2959'
Logged Interval (ft): 3900' To: 5650' Total Depth (ft): 5650'
Formation: Morrow Chester
Type of Drilling Fluid: Natural Chemical

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

OPERATOR

Company: BEREXCO LLC
Address: 2020 N. BRAMBLEWOOD
WICHITA, KANSAS 67206
CO.ENG.: MR. JIM HICKMAN

GEOLOGIST

Name: Edwin W. Grieves
Company: Grieves and Company
Address: PO Box 3125
Edmond, Oklahoma 73083-3125

CIRC POINTS

CIRC POINTS

4182'
4450'
4638'
4681'
4808'
4824'
4900'
5190'
5224'
5250'
5300'
5330'
5650'
6580'



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN:

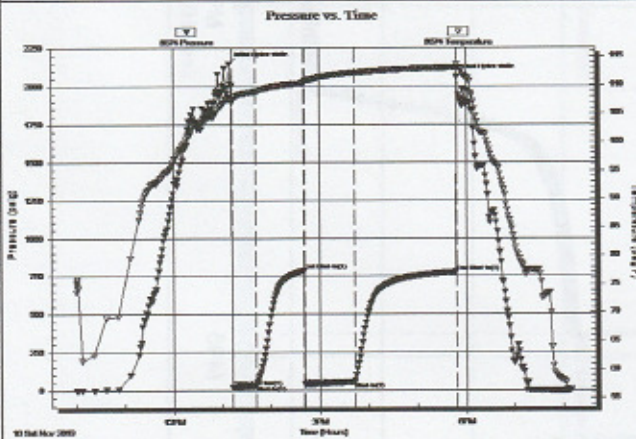
22-30s-33w Haskell, KS
Risa 1-22
Job Ticket: 66067 **DST#: 1**
Test Start: 2019.11.16 @ 10:00:08

GENERAL INFORMATION:

Formation: **Lansing B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:12:38
Time Test Ended: 20:09:38
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79
Interval: **4162.00 ft (KB) To 4182.00 ft (KB) (TVD)**
Total Depth: 4182.00 ft (KB) (TVD)
Reference Elevations: ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Good
KB to GR/CF: ft

Serial #: 8674 Outside
Press@RunDepth: 56.34 psig @ 4163.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.11.16 End Date: 2019.11.16 Last Calib.: 2019.11.16
Start Time: 10:00:08 End Time: 20:09:38 Time On Btrc: 2019.11.16 @ 13:08:38
Time Off Btrc: 2019.11.16 @ 17:49:08

TEST COMMENT: IF: BOB in 2 mins. 40 3/4
IS: No return.
FF: BOB in 1 min. 57 1/2
FS: Surface blow built to 1.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.48	107.48	Initial Hydro-static
4	21.50	106.95	Open To Flow (1)
33	34.02	108.91	Shut-In(1)
92	783.54	110.35	End Shut-In(1)
94	36.79	110.65	Open To Flow (2)
154	56.34	112.19	Shut-In(2)
280	777.21	113.11	End Shut-In(2)
281	2060.00	113.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	gocw m 20%g 5%o 5%w 70%m	1.30
10.00	gocm 10%g 10%o 80%m	0.14
0.00	1199 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

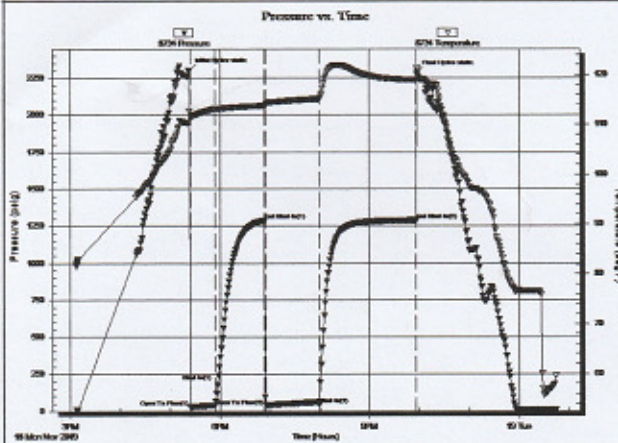
22-30s-33w Haskell, KS
Risa 1-22
Job Ticket: 65573 **DST#: 1**
Test Start: 2019.11.18 @ 15:07:00

GENERAL INFORMATION:

Formation: **KC " B "**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 17:24:30 Tester: Martine Salinas
Time Test Ended: 00:44:40 Unit No: 82
Interval: **4656.00 ft (KB) To 4681.00 ft (KB) (TVD)** Reference Elevations: 2959.00 ft (KB)
Total Depth: 4681.00 ft (KB) (TVD) 2947.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 8734 Outside
Press@RunDepth: 48.26 psig @ 4657.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.11.18 End Date: 2019.11.19 Last Calib.: 2019.11.19
Start Time: 15:07:00 End Time: 00:44:40 Time On Btm: 2019.11.18 @ 17:23:10
Time Off Btm: 2019.11.18 @ 21:57:00

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 30 secs (blow increased to 92")
60-IS-No blow back
60-FF-B.O.B(11 inches) ASAO (blow increased to 405 1/2") GTS @ 60 mins
120-FSI-Blow back built to 5"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.04	112.62	Initial Hydro-static
2	27.37	111.51	Open To Flow (1)
31	38.01	113.11	Shut-in(1)
91	1285.09	113.76	End Shut-in(1)
93	41.60	114.21	Open To Flow (2)
157	48.26	115.10	Shut-in(2)
273	1288.94	118.90	End Shut-in(2)
274	2284.84	121.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	100% Mud	0.98
0.00	Oil spots in tool	0.00
0.00	4585' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/D)
First Gas Rate	0.13	15.00	11.00



**TRIOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

22-30s-33w Haskell, KS

Risa 1-22

Job Ticket: 65574

DST#: 3

Test Start: 2019.11.19 @ 20:25:00

GENERAL INFORMATION:

Formation: **Marmaton "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:19:50

Time Test Ended: 07:00:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: **4790.00 ft (KB) To 4808.00 ft (KB) (TVD)**

Total Depth: 4808.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 8734

Outside

Press@RunDepth: 25.88 psig @ 4791.00 ft (KB)

Start Date: 2019.11.19

End Date: 2019.11.20

Start Time: 20:25:00

End Time: 07:00:40

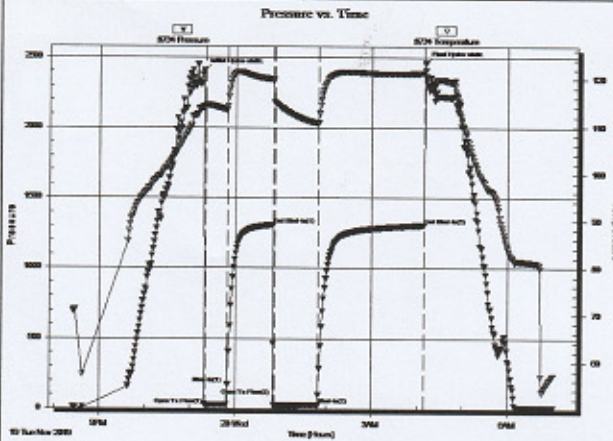
Capacity: 8000.00 psig

Last Calib.: 2019.11.20

Time On Btm: 2019.11.19 @ 23:17:50

Time Off Btm: 2019.11.20 @ 04:10:50

TEST COMMENT: 30-IF-B.O.B 15 secs blow increased to 214 1/4" @ 1/4" choke
60-ISI-No blow back
60-FF-B.O.B ASAO increased to 355 1/2" @ 1/8" choke
120-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2402.72	114.18	Initial Hydro-static
2	26.14	114.48	Open To Flow (1)
31	27.16	113.42	Shut-in(1)
92	1306.85	119.99	End Shut-in(1)
95	24.83	114.94	Open To Flow (2)
152	25.88	110.63	Shut-in(2)
292	1305.49	121.31	End Shut-in(2)
294	2458.78	123.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
10.00	100% Mud	0.14
0.00	4772' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.00	33.95
Last Gas Rate	0.13	13.00	10.26
Max. Gas Rate	0.13	13.00	10.26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 65575

DST#: 4

ATTN: Ed Grieves

Test Start: 2019.11.21 @ 04:10:00

GENERAL INFORMATION:

Formation: "Pawnee"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:05:40

Time Test Ended: 13:52:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4878.00 ft (KB) To 4900.00 ft (KB) (TVD)

Total Depth: 4900.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 8734

Outside

Press@RunDepth: 32.80 psig @ 4879.00 ft (KB)

Start Date: 2019.11.21

End Date: 2019.11.21

Start Time: 04:10:00

End Time: 13:52:40

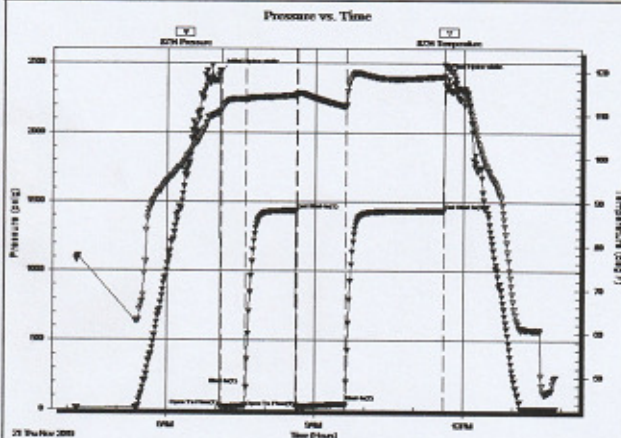
Capacity: 8000.00 psig

Last Calib.: 2019.11.21

Time On Btm: 2019.11.21 @ 07:04:00

Time Off Btm: 2019.11.21 @ 11:36:30

TEST COMMENT: 30-IF-B.O.B @ 8 1/2 mins built to 195"
60-ISI-No blow back
60-FF-B.O.B ASAO built to 505" on 1/8" choke G.T.S @ 25 mins
120-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2437.09	111.08	Initial Hydro-static
2	21.56	111.00	Open To Flow (1)
32	30.21	113.70	Shut-in(1)
93	1435.00	114.65	End Shut-in(1)
94	19.05	114.83	Open To Flow (2)
153	32.80	111.86	Shut-in(2)
272	1434.95	118.92	End Shut-in(2)
273	2408.35	121.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20	100% Mud.	281
0	4856' G.I.P	

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	11.50	9.69
Last Gas Rate	0.13	18.42	12.28
Max. Gas Rate	0.13	18.42	12.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 66101

DST#: 5

ATTN: Ed Grieves

Test Start: 2019.11.23 @ 03:40:00

GENERAL INFORMATION:

Formation: **Atoka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:03:20

Time Test Ended: 13:55:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: **5213.00 ft (KB) To 5224.00 ft (KB) (TVD)**

Total Depth: 5224.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 8734

Outside

Press@RunDepth: 44.14 psig @ 5214.00 ft (KB)

Start Date: 2019.11.23

End Date:

2019.11.23

Capacity: 8000.00 psig

Last Calib.: 2019.11.23

Start Time: 03:40:00

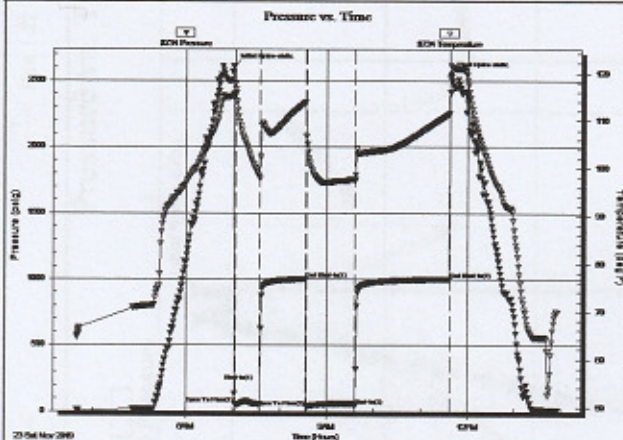
End Time:

13:55:10

Time On Btm: 2019.11.23 @ 07:01:10

Time Off Btm: 2019.11.23 @ 11:38:50

TEST COMMENT: 30-IF-B.O.B 15 secs G.T.S @ 15 mins
60-ISI-S.blow back @ 2 mins built to 1 1/4"
60-FF-B.O.B ASAO built to 27 1/2 P.S.I on 3/8" choke
120-FSI-S.blow back built to 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2611.10	115.66	Initial Hydro-static
3	50.95	116.57	Open To Flow (1)
34	53.47	97.83	Shut-in(1)
92	999.16	113.79	End Shut-in(1)
93	36.91	106.70	Open To Flow (2)
156	44.14	97.48	Shut-in(2)
276	1000.83	111.46	End Shut-in(2)
278	2548.81	121.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	100%Mud	0.35
0.00	5167' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	30.00	299.51
Last Gas Rate	0.38	27.21	152.43
Max. Gas Rate	0.50	30.00	299.51

TriLOBITE Testing, Inc

Ref. No: 66101

Printed: 2019.11.23 @ 14:04:27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

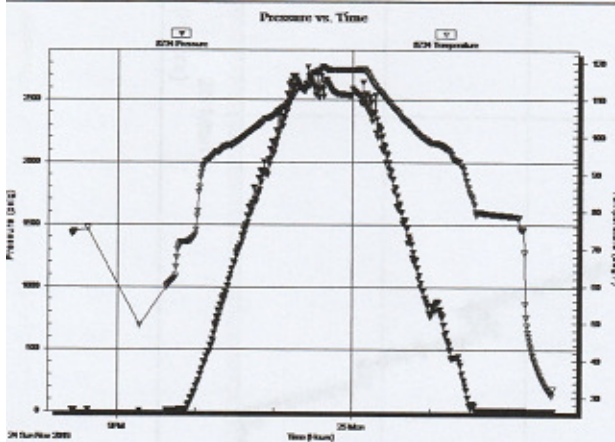
22-30s-33w Haskell, KS
Risa 1-22
Job Ticket: 66102 **DST#: 6**
Test Start: 2019.11.24 @ 20:25:00

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: Tester: Martine Salinas
Time Test Ended: 02:34:20 Unit No: 82
Interval: **5327.00 ft (KB) To 5381.00 ft (KB) (TVD)**
Total Depth: 5381.00 ft (KB) (TVD) Reference Elevations: ft (KB)
Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: ft (CF)

Serial #: 8734 Outside
Press@RunDepth: psig @ 5328.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.11.24 End Date: 2019.11.25 Last Calib.: 2019.11.25
Start Time: 20:25:00 End Time: 02:34:20 Time On Btm:
Time Off Btm:

TEST COMMENT: Mis-Run Opened tool & lost fluid in hole, Picked up & bled off floor manifold & tried to reseat packers, Lost fluid again, Full tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
160.00	100% Mud	2.24

* Recovery from multiple tests

Gas Rates

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

Daily Drilling Progress

Daily 7 AM Depths Reports

11/14/19 3500' CALL POINT
11/15/19 3920' DRILLING
11/16/19 4182' DST 1
11/17/19 4319' DRILLING
11/18/19 4681' DST 2
11/19/19 4704' DRILLING
11/20/19 4808' DST 3
11/21/19 4900' DST 4
11/22/19 5045' DRILLING
11/23/19 5224' DST 5
11/24/19 5330' DRILLING
11/25/19 5380' DST 6
11/26/19 5650' TD @ PREP FOR LOGS

DEV SURVEYS

1. 308' INC 0.75
2. 826' INC 0.75
3. 1269' INC 1.5
4. 1720' INC 1.5
5. 1884' INC 1.5
6. 4182' INC 1
7. 4807' INC 0.25
8. 5224' INC 0.75



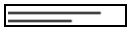

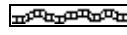



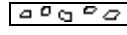



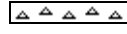



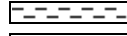
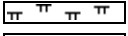







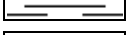
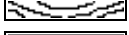

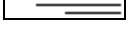
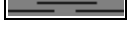
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15-Nov	3965	9	43	15	15	13/37	10.5	1	2500	20	3
16-Nov	4182	9	50	16	16	16/47	9	1	2950	60	4
17-Nov	4319	9.2	45	13	14	13/37	9.5	1	3050	20	3
18-Nov	4681	9.3	50	16	16	15/46	10	1	2500	20	4
19-Nov	4725	9.2	55	22	18	14/41	10	1	2100	10	2
20-Nov	4808	9.2	84	27	20	7/23	11	1	1000	40	2
21-Nov	4900	9.4	60	20	13	5/24	10	1	2000	40	3
22-Nov	5082	9.2	50	16	15	7/20	10	1	3200	20	3
23-Nov	5224	9.3	52	17	15	14/43	10	1	2800	20	4
24-Nov	5330	9.1	69	23	21	21/55	10	1	3600	20	4
25-Nov	5386	9.3	53	16	17	17/49	10	1	4025	20	3

Formation Tops























































































SAMPLE LOG TOPS

HEEBNER	
BS. HEEBNER	4083' -1124
TORONTO	
LANSING	4139' -1180
KANSAS CITY "A"	5622' -1663
BKC	
MARMATON	4769' -1810'
PAWNEE	4884' -1925'
FT. SCOTT	4916' -1957
CHEROKEE	4932' -1973
ATOKA	
MORROW FM.	5230' -2271'
MID MORROW	
ST. GEN.	5399' -2440'
ST. LOUIS	5436' -2477'
ST. LOUIS "C"	
RTD	5650' -2691'

ROCK TYPES

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Sltst	 Shale
 Brec	 Lmst	 Ss	 Sltstn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 SltysH
 Coal	 Salt	 Dol	 Lms
 Congl	 Shale	 Dtd	
 Dol	 Shcol	 Gry sh	

ACCESSORIES

FOSSIL	MINERAL	 Salt	 Dol
 Algae	 Anhy	 Sandy	 Grysh
 Amph	 Arggrn	 Silt	 Gryslt
 Belm	 Arg	 Sil	 Lms
 Bioclst	 Bent	 Sulphur	 Sandylms
 Brach	 Bit	 Tuff	 Sh
 Bryozoa	 Brecfrag	 Chlorite	 Sltstn
 Cephal	 Calc	 Dol	
 Coral	 Carb	 Sand	TEXTURE
 Crin	 Chtdk	 Silty	 Boundst
 Echin	 Chtlt	STRINGER	 Chalky
 Fish	 Dol	 Anhy	 Cryxln
 Foram	 Feldspar	 Arg	 Earthy
 Fossil	 Ferrpel	 Bent	 Finexln
 Gastro	 Ferr	 Coal	 Grainst
 Oolite	 Glau	 Dol	 Lithogr
 Ostra	 Gyp	 Gyp	 Microxln
 Pelec	 Hvymin	 Ls	 Mudst
 Pellet	 Kaol	 Mrst	 Packst
 Pisolite	 Marl	 Sltstrg	 Wackest
 Plant	 Minxl	 Ssstrg	
 Strom	 Nodule	 Carbsh	
 Fuss	 Phos	 Clystn	
 Oomold	 Pyr		

OTHER SYMBOLS

INTERVALS

- Core
- ◻ Dst
- Dst

EVENTS

- ▽ Rft
- ▾ Sidewall

POROSITY TYPE

- ⓔ Earthy
- Ⓛ Fenest
- Ⓧ Fracture
- Ⓢ Inter
- Ⓜ Moldic
- Ⓞ Organic
- Ⓟ Pinpoint
- Ⓥ Vuggy

SORTING

- Ⓜ Well
- Ⓜ Moderate
- Ⓟ Poor

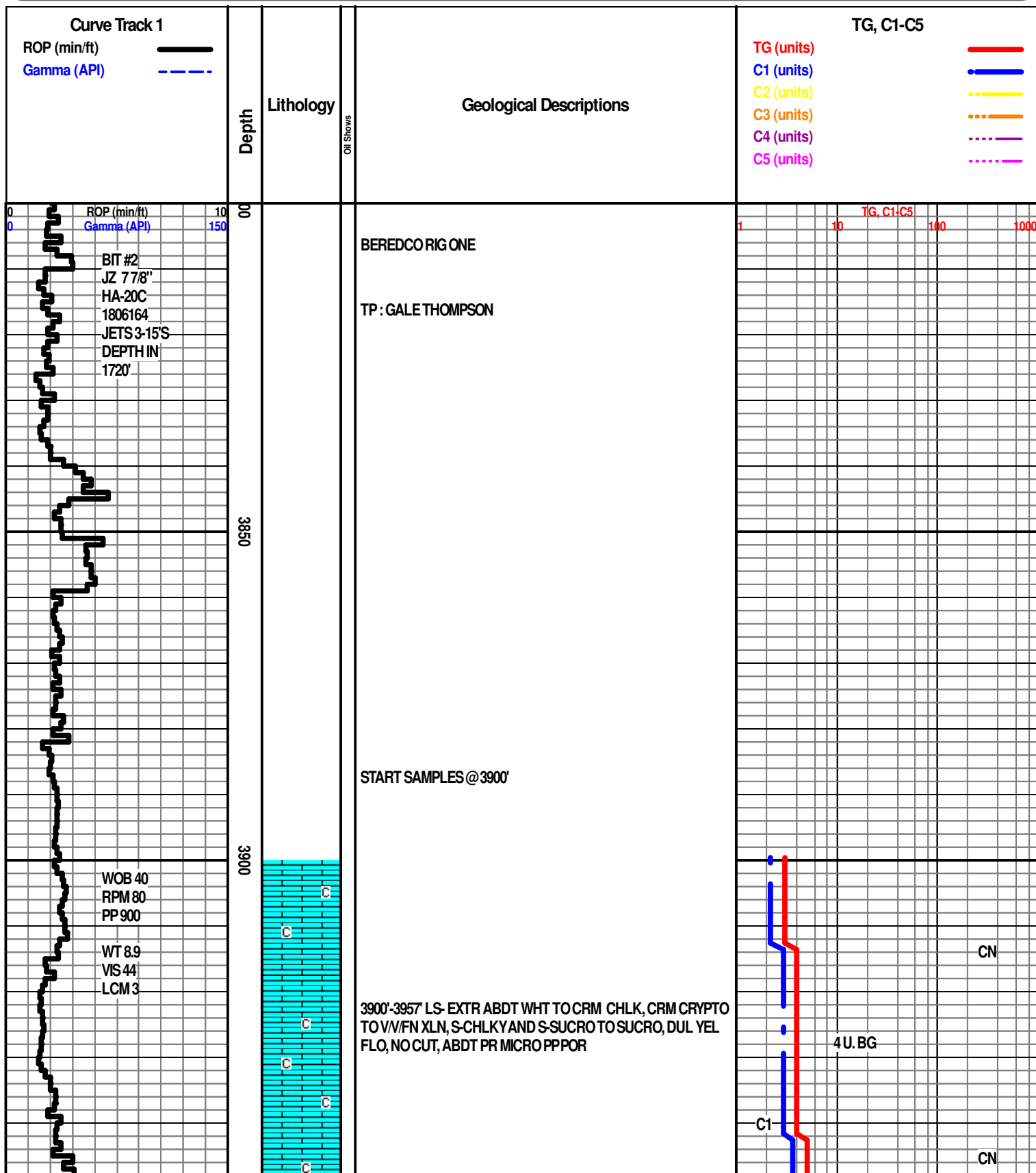
ROUNDING

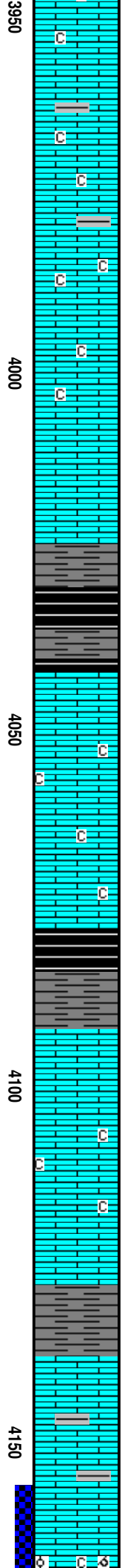
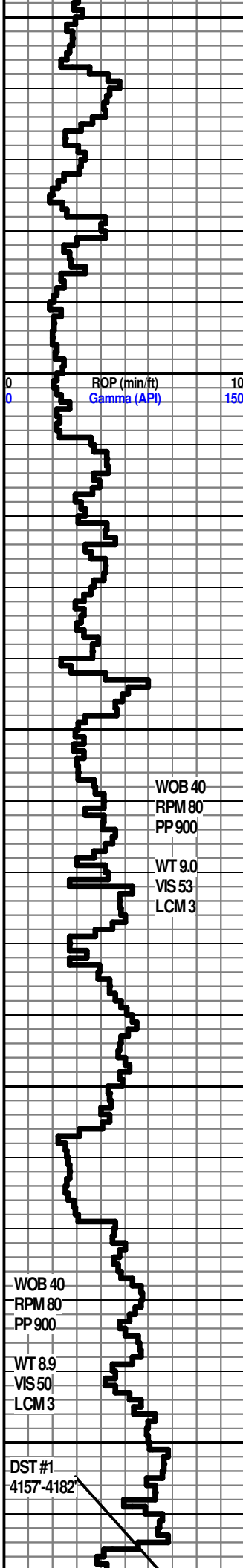
- Ⓜ Rounded
- Ⓜ Subrnd
- Ⓜ Subang

- Ⓜ Angular

OIL SHOWS

- Ⓜ Even
- Ⓜ Spotted
- Ⓜ Ques
- Ⓜ Dead
- Ⓜ Gas show





3957' 3971' INTRBD LS

1. FAST DRILLG- LS- EXTRABDT WHT TO CRM CHLK, CRM CRYPTO TO V/V/FN XLN, S-CHLKY AND S-SUCRO TO SUCRO, DUL YEL FLO, NO CUT, ADBT PR MICRO PP POR

2. SLW DRILLG- LS- LT GRYTOTN, CRYPTO TO V/V/FN XLN, S-SUCRO TO PCKSTN, SLI SHLY IP; DUL YEL FLO IP, NO CUT, NO VIS POR

3971'-4009' LS- EXTR ADBT WHT TO CRM CHLK, CRM CRYPTO TO V/V/FN XLN, S-CHLKY AND S-SUCRO TO SUCRO, DUL YEL FLO, NO CUT, ADBT PR MICRO PPPOR

4009'-4024' LS- LT GRY TO TN, CRYPTO TO V/V/FN XLN, S-CHLK, S-SUCRO & PCKSTN, DUL YEL FLO IP, NO CUT, NO VIS POR

4024'-4042' SH- MED TO DK GRY, RED IP TO V/DK GRY TO BLCK, CARB

4042'-4048' LS- LT GRY TO TN, CRYPTO TO V/V/FN XLN, S-CHLK, S-SUCRO & PREDOM PCKSTN, DUL YEL FLO IP; NO CUT, NO VIS POR

4048'-4057' LS- V/ ADBT WHT TO CRM CHLK, CRM TO LT TN, CRYPTO TO V/V/FN XLN, S-CHLK, S-SUCRO & PCKSTN, DUL YEL FLO IP, NO CUT, NO VIS POR

4057'-4078' LS- HVY TR WHT TO CRM CHLK, LT GRY TO TN, CRYPTO TO V/V/FN XLN, S-CHLK, S-SUCRO & PCKSTN, DUL YEL FLO IP, NO CUT, NO VIS POR

HEEBNER 4083' -1124'

4078'-4083' SH- V/DK GRY TO BLCK, CARB

4083'-4092' SH- LT GRY TO LT GRY, SFT TO MSHY WHEN WET, SLI TO SLTY IP

4092'-4106' LS- LT GRY TO TN, CRYPTO TO V/V/FN XLN, TR S-CHLK, TR S-SUCRO, PCKSTN & SLI TR S-LITHOGR, TR DUL YEL FLO, NO CUT, NO VIS POR

4106'-4119' LS- HVY TR WHT TO CRM CHLK, LT TN TO GRY IP, CRYPTO TO V/V/FN XLN TR, WHT FN TO CRS CALC XLS, TR S-CHLK, S-SUCRO TO SUCRO & TR PCKSTN, DUL YEL FLO IP, NO CUT, HVY TR PR TO FR MICRO PP POR

4119'-4127' LS- GRY TO TN, CRYPTO TO TR V/V/FN XLN, TR S-SUCRO & PCKSTN, TR DUL YEL FLO, NO CUT, NO VIS POR

4127' 4139' SH- LT GRY TO MD GRY, V/ TO EXTRLY CALC IP, GRDING TO V/ SHLY LS, NO VIS POR, NO SHOW

LANSING 4139' -1180'

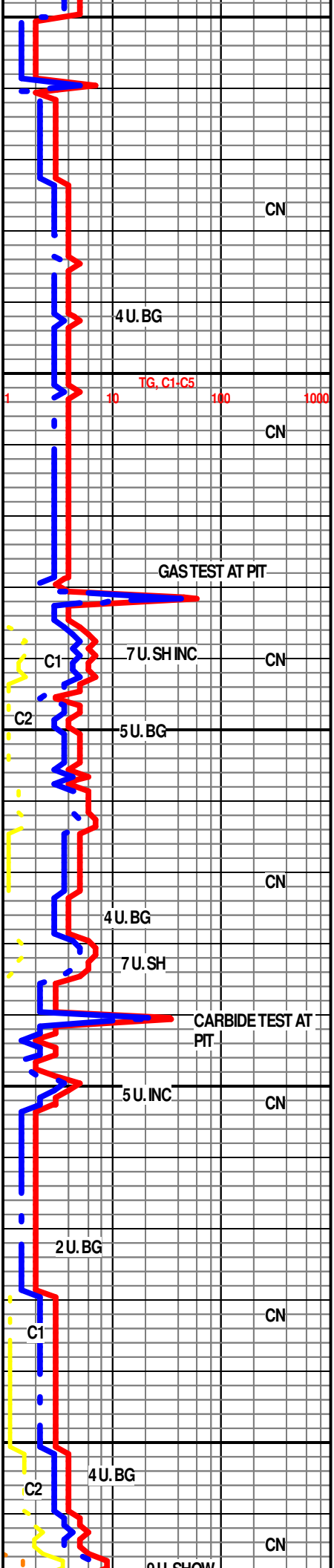
4139'-4165' INTRBD LS

1. LS- TR WHT TO CRM CHLK, TN, CRYPTO TO V/V/FN XLN, TR S-CHLK, TR S-SUCRO, PCKSTN & TR S-LITHOGR, ADBT YEL FLO, NO CUT, NO VIS POR

2. LS- LT TO MD GRY, SLI TO V/ SHLY TR GRND TO CALC SH, CRYPTO XLN, TR S-CHLK, PCKSTN & TR S-LITHOGR, TR DUL YEL FLO, NO CUT, NO VIS POR

LANSING 'B' 4165' -1206'

4165'-4168' & 4177' -4182' LS- SLI TR WHT TO CRM CHLK, TN W/



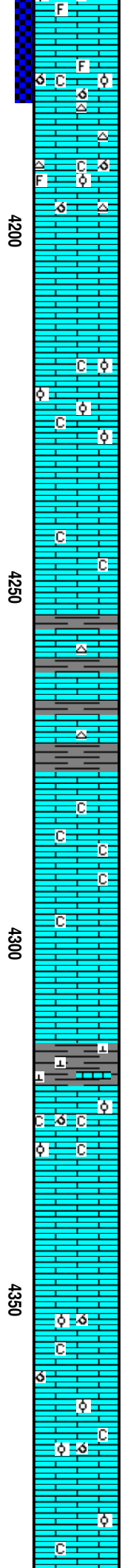
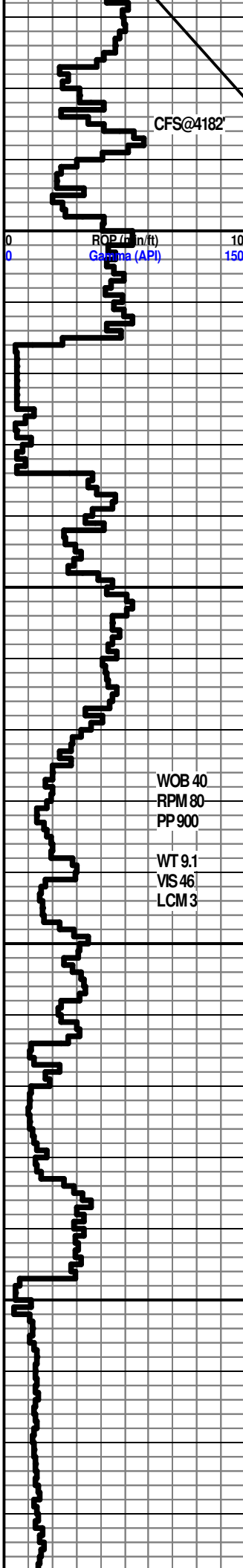
WOB 40
RPM 80
PP 900

WT 8.9
VIS 50
LCM 3

DST #1
4157'-4182'

WOB 40
RPM 80
PP 900
WT 9.0
VIS 53
LCM 3

ALL SHOW



LI DK TN SPTD OIL STN, CRYPTO TO VV/FN XLN SLI TR WHT TO FN TO MD CALC XLS, S-SUCRO TO SUCRO, TRS FOSS FRG, PHNTM OOL TO SLI PHNTM OOLCST IP, DUL GLD TO GLD YEL FLO, FNT STRMING MLKY CUTS TO GD RNG CUTS, ABDT PR FR TO TR GD MICRO PP & INTR XLN POR

LS- LT GRY TO TN, CRYTO TO VV/FN XLN, TR S-SUCRO, PCKSTN & SLI S-LITHOGR, DUL YEL FLO, NO VIS CUT, NO VIS POR, W/ SLI TR WHT CRM TO TN CHRT

4190'-4198' LS- SLI TR WHT TO CRM CHLK, TN W/ SLI DK TN SPTD OIL STN, CRYPTO TO VV/FN XLN SLI TR WHT TO FN TO MD CALC XLS, S-SUCRO TO SUCRO, TRS FOSS FRG, PHNTM OOL TO SLI PHNTM OOLCST IP, DUL GLD TO GLD YEL FLO, FNT STRMING MLKY CUTS TO GD RNG CUTS, ABDT PR FR TO TR GD MICRO PP & INTR XLN POR, W/ HVY TR WH GRY TO TN CHRT

4215'-4234' LS- HVY TR WHT TO CRM CHLK, GRY TO TN, CRYPTO TO VV/FN XLN, EXLY OOL TO SLI FREE OOL, S-SUCRO, TO V/ SUCRO & TR PCKSTN, GLD YEL FLO, NO CUT, V/ ABDT PR TO EXCEL OOL POR, HVY TR PR TO FR MICRO PP & INTR XLN POR

4234'-4248' LS- GRY TO TN, CRYPTO TO VV/FN XLN S-SUCRO, PCKSTN & S-LITHOGR, DUL YEL FLO IP, NO CUT, NO VIS POR, GRDNG TO V/CHLKY WHT TO CRM

4248'-4275' INTRBD LS & SH

1. LS LT TO ME GRY, SLI TO V/ SHLYIP TO TN, CRYPTO TO VV/FN XLN, TR S-SUCRO & PCKSTN, TR S-LITHOGR, TR DUL LT YEL FLO, NO CUT, NO VIS POR
2. SH - MED TO DK GRY, SLI TO V/ CALC IP
3. TR CHRT MD TO DK GRY

4275'-4298' LS- HVY TR TO ABDT WHT TO CRM CHLK, LT GRY TO TN, CRYPTO TO VV/FN XLN, S-SUCRO TO SUCRO & TR PCKSTN, DUL TO LT YEL FLO, NO CUT, ABDT PR TO FR & TR GD MICRO PP POR & INTR XLN POR IP

4298'-4314' LS- LT GRY TO TN, CRYPTO TO VV/FN XLN, TR S-SUCRO, PCKSTN & HVY TR S-LITHOGR, DUL YEL FLO IP, NO CUT, NO VIS POR

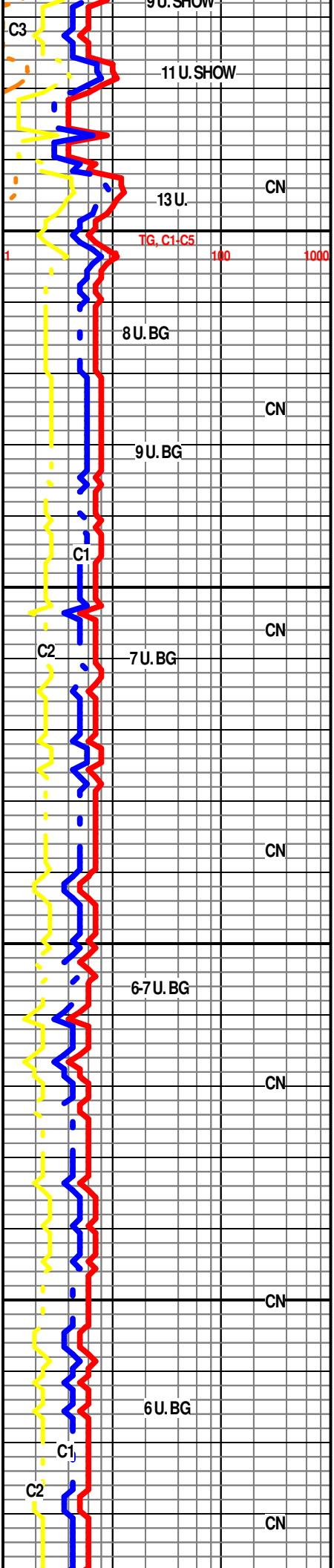
4314'-4320' SH- MD TO DK GRY, SLI TO V/ CALC GRDNG TO SHLY LS

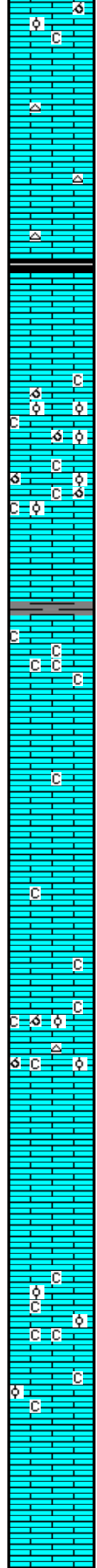
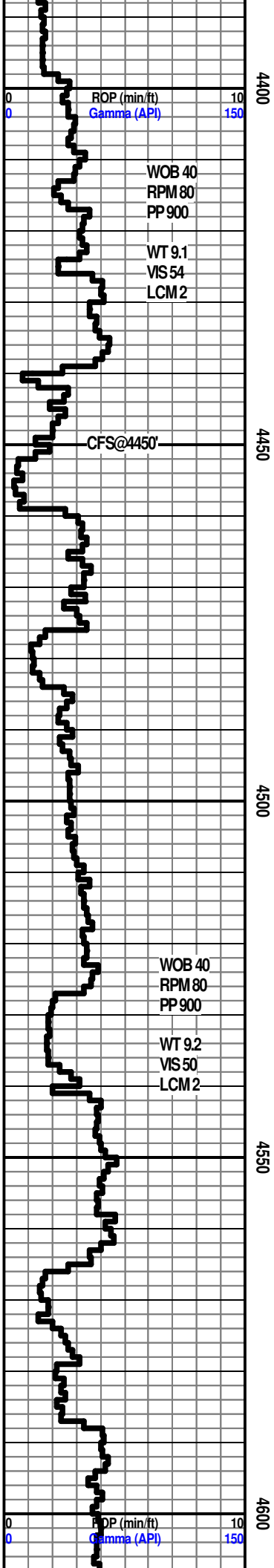
4320'-4333' LS- EXTR ABDT WHT TO CRM CHLK, CRM TO TN, CRYPTO TO VV/FN XLN, PHNTM OOL IP, S-CHLK & S-SUCRO TO V/ SUCRO, DUL YEL FLO IP, NO CUT, ABDT PR FR GD TO EXCL PP, MICRO PP & INTR XLN POR

4333'-4347' LS- GRY TO TN, CRYPTO TO TR VV/FN XLN, TR S-SUCRO, PCKSTN & S-LITHOGR, TR DUL YEL FLO, NO CUT, NO VIS POR

LANSING 'F' 4347' -1388'

4347'-4398' LS- V/ TO EXTRLY WHT TO CRM CHLK, V/ TO EXTRLY OOLCST & OR FRLY TO V OOL, S-CHLK, S-SUCRO TO TR SUCRO & PCKSTN, DUL TO LT YEL FLO, NO CUT, ABDT FR GD TO EXCL OOL POR, PR TO TR FR MICRO PP TO INTER XLN POR





4398'-4424' LS- GRY TO TN, CRYPTO TO VV/FN XLN, TR S-CHLK, PCKSTN & S-LITHOGR, DUL YEL FLO IP, NO CUT, NO VIS POR, TR GRY CHRT

LANSING 'G' 4426'-1467'

4424'-4426' SH- VDK GRY TO BLCK, CARB

4426'-4439' LS- HVY TR MED TO DK GRY, SLI TO EXTRLY SHLY GRDING TO CALC SH, DK TN TO BRWN, CRYPTO XLN, S-CHLK & ORSHLY & PCKSTN TO S-LITHOGR, TR YEL FLO, NO CUT, NO VIS POR

4439'-4451' LS- TR WHT TO CRM CHLK, LT GRY TO TN, CRYPTO TO VV/FN XLN, V/ TO EXTRLY OOLCST & FRLY TO V/ OOL, TR S-CHLK, S-SUCRO TO SUCRO & TR PCKSTN, DUL YEL FLO IP, NO CUT, ABDT PR FR GD TO EXCEL OOL POR IP, TR PR TO FR MICRO PP TO INTER XLN POR IP

4451'-4459' LS- EXTRLY ABDT WHT TO CRM CHLK, LT GRY TO TN, CRYPTO TO VV/FN XLN, V/ TO EXTRLY OOLCST & OOL, TR S-CHLK, S-SUCRO & PCKSTN, DUL YEL TO YEL FLO, NO CUT, ABDT PR FR GD TO EXCEL OOL POR, V/ QUEST PERM

4459'-4476' LS- LT GRY TO TN, CRYPTO TO VV/FN XLN, TR S-CHLK, S-SUCRO, PCKSTN & S-LITHOGR, DUL YEL FLO IP, NO CUT, NO VIS POR

LANSING 'H' 4473' -1514'

4476'-4484' LS- ABDT WHT TO CRM CHLK, CRM TO LT TN, CRYPTO TO VV/FN XLN, S-CHLK, TR S-SUCRO, TR PCKSTN & TR S-LITHOGR, DUL YEL FLO IP, NO CUT, NO VIS POR

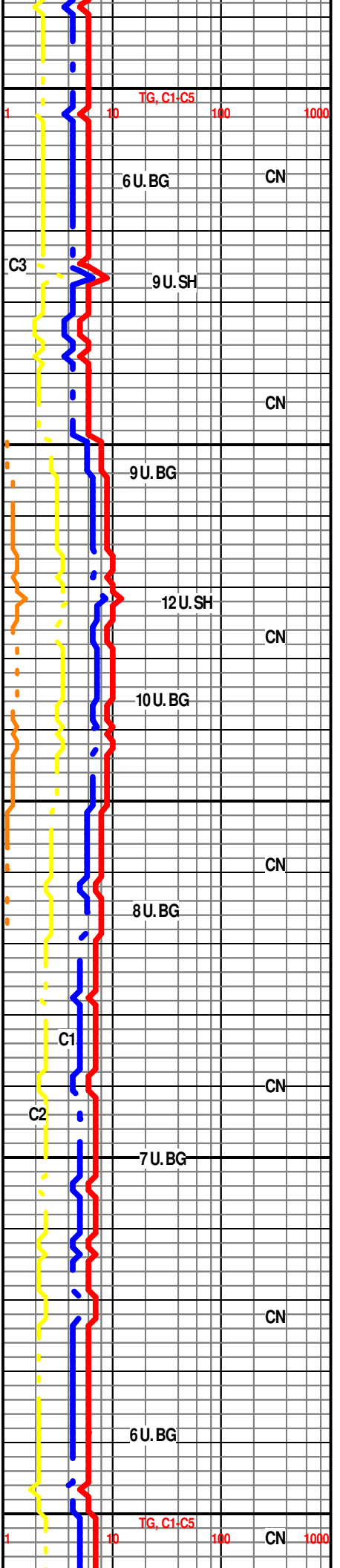
4484'-4527' LS- SLI TR WHT TO CRM CHLK, LT GRY TO TN, CRYPTO TO VV/FN XLN, TR S-CHLK, TR S-SUCRO, PCKSTN & LITHOGR, DUL YEL FLO IP, NO CUT, NO VIS POR

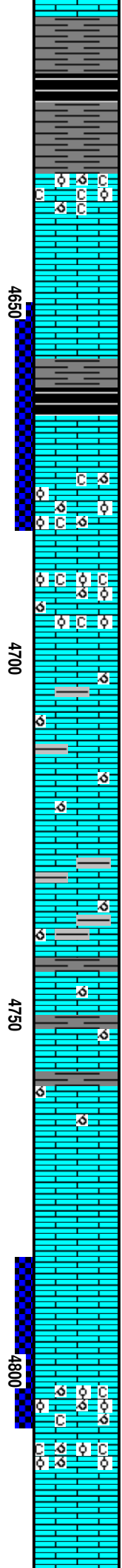
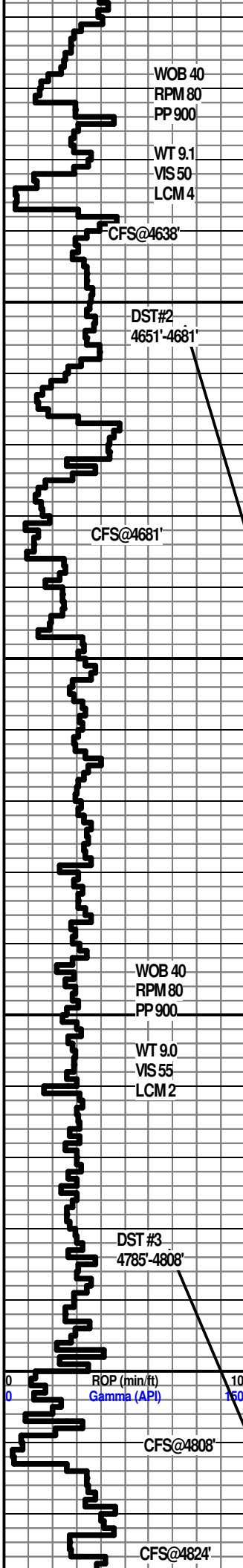
4527'-4541' LS- TR WHT TO CRM CHLK, LT GRY TO TN, CRYPTO TO VV/FN XLN, S-CHLK, S-SUCRO TO SUCRO, PHNTM OOL IP, PHNTM OOLCST IP, TR DUL YEL TO TR YEL FLO, NO CUT, ABDT PR TO FR & HVY TR GD PP, MICRO PP & INTR XLN POR, TR GR TO TN CHRT

4541'-4565' LS- LT GRY GRY TO TN, CRYPTO TO VV/FN XLN, TR S-CHLK, S-SUCRO, PCKSTN & TR S-LITHOGR, TR DUL YEL FLO, NO CUT, NO VIS POR

4565'-4588' LS- EXTRLY ABDT WHT TO CRM CHLK, CRM TO VLT TN, CRYPTO TO VV/FN XLN W/ CHLK OOL IP, S-CHLK, TR S-SUCRO, TR PCKSTN, DUL YEL FLO IP, NO CUT, NO VIS POR

4588'-4609' LS- LT GRY TO TN, CRYPTO TO TR VV/FN XLN, TR S-SUCRO, PCKSTN & S-LITHOGR, HVY TR V/DUL TO TR DUL YEL FLO, NO CUT, NO VIS POR





4609'-4622' SH- V/DK GRAY TO BLCK, CARB

KC 'A' 4622' -1663'

4622'-4632' SH- MD TO V/DK GRAY, CALC IP

4632'-4637' LS- TR WHT TO CRM CHLK, TN, CRYPTO TO V/V/FN XLN, FR LYT
EXTRLY OOLCST & SLI OOL, S-SUCRO TO V/SUCRO & TR PCKSTN, DUL GLD
TO GLD YEL FLO, NO CUT, ABTD PR TO EXCEL OOLCST POR, MTRX W/
ABTD PR TO HVY TR FR TO GD MICRO PPPOR & INTR XLN POR

4637'-4658' LS- LT GRAY TO TN, CRYPTO TO V/V/FN XLN, TR
S-SUCRO, TR SUCRO, PCKSTN & TR S-LITHOGR, HVY TR DUL
YEL TO TR YEL FLO, NO CUT, NO VIS POR

4658'-4666' SH- V/DK GRAY TO BLCK, CARB

KC 'B' 4666' -1715'

4674'-4686' LS- TR WHT TO CRM CHLK, LT TN TO TN, CRYPTO
TO V/V/FN XLN, FR LYT TO EXTRLY OOLCST & V/SLI TO V/ OOL,
S-SUCRO TO SUCRO & TR PCKSTN, GD OIL ODOR, DUL GLD
TO GLD YEL FLO, MILKY TO GD RING CUTS, ABTD PR FR GD
TO EXCEL OOLCST POR, TR PR TO FR & SLI TR GD MICRO PP &
INTR XLN POR, HVY TR LOOSE OOL, QUEST PERM IP

4686'-4697' LS- SIMILAR TO 4674'-4686' BECOMING EXTRLY
CHLKY & LESS OOLCST & MORE OOL, NO SHOW

4697'-4742' LS MD TO DK GRAY, FR LYT TO V/ SHLY & GRAY TO TN,
CRYPTO TO V/V/FN XLN S-CHLK & OR SHLY, TR S-SUCRO &
PCKSTN, TR PHNTM OOL, TR DUL YEL FLO, NO CUT, NO VIS
POR

4742'-4769' LS SIMILAR TO 4697'-4742' W/ V/ LRG MD TO DK GRAY
LS GRDNG TO CALC SH MD TO DK GRAY

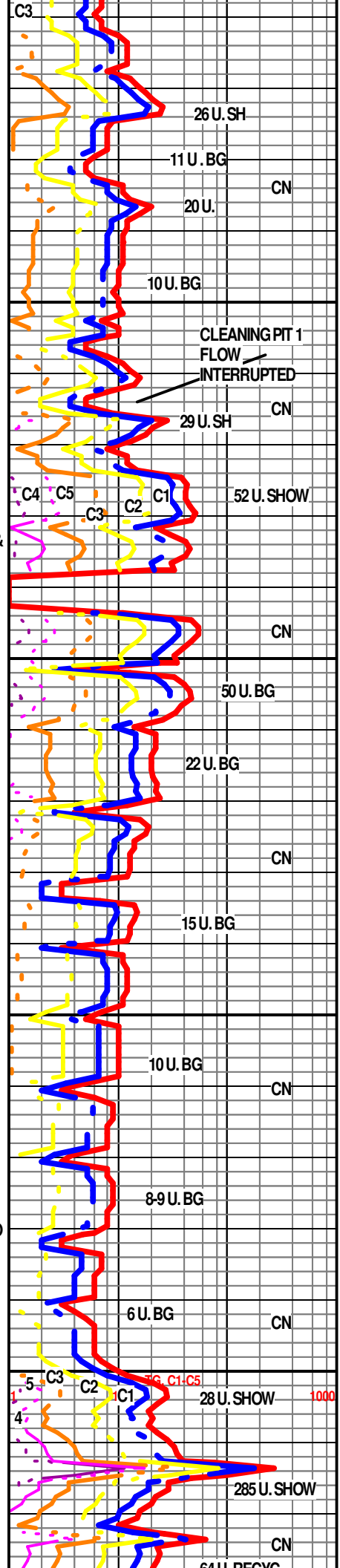
MARM 4769' -1810'

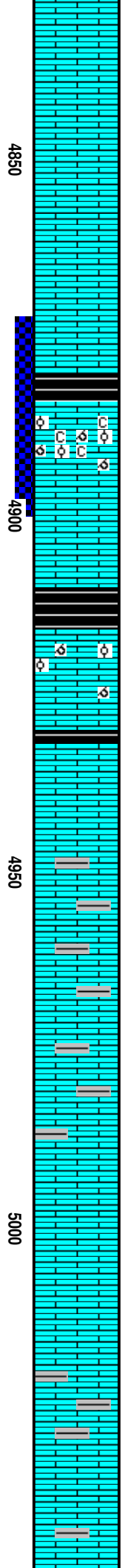
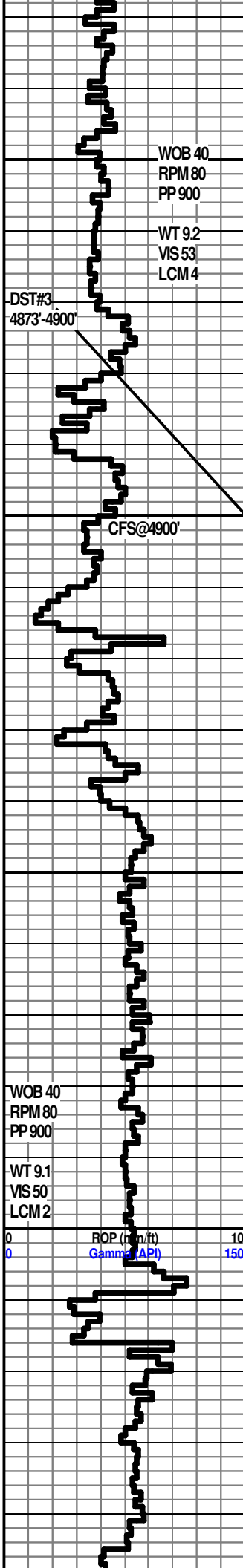
4769'-4800' LS TN TO GRAY IP, CRYPTO TO V/V/FN XLN, TR
S-SUCRO, PCKSTN TO HVY TR S-LITHOGR, DUL YEL FLO IP, NO
CUT, NO VIS POR

MARM 'B' 4800' -1841'

4800'-4808' LS- TR WHT OT CRM CHLK, CRM TO LT TN, CRYPTO TO V/V/FN
XLN, SLI TO EXTRLY OOLCST & OR SLI TO EXTRLY OOL, SLI TR FOSS,
S-SUCRO TO SUCRO & HVY TR PCKSTN, GD OIL ODOR, SCAT TR SPTD OIL
STN, DUL GLD TO GLD YEL FLO, FR STRM, MLKY TO GD RING CUT, ABTD PR
TO EXCEL OOLCST POR, HVY TR PR FR MICRO PPTO INTER XLN POR,
QUEST PERM

4808'-4813' LS- SIMILAR TO 4800'-4808' W/ HVY TR TO ABTD SPTD & TR EVEN
TN OIL STN W/ GLD TO BRN GLD YEL FLO W/ FLSTH TO GD STRMING CUT TO
EXCEL RING CUT & W/ SIMILAR POR





4813'-4880' INTRBD &/OR GRADATIONAL LS

1. LS TN, CRYPTO TO V//FN XLN, S-CHLK, S-SUCRO, PCKSTN & TR S-LITHOGR, DUL YEL FLO IP; NO CUT, NO VIS POR

2. LS- LT TO MD GRY, SLI TO V/SHLY, CRYPTO TO V//FN XLN, S-CHLK &/OR SHLY, NO FLO, NO CUT, NO VIS POR

PAWNEE 4884 -1925'

4880'-4884' SH- V/DK GRY TO BLCK, CARB, TR FN DISS PYR

4884'-4892' LS- TR WHT TO CRM CHLK, CRM T LT TN W/ HVY TR TO ABDT SPT TO TR EVN TN OIL STN, CRYPTO TO V//FN XLN, S-CHLK, S-SUCRO, TO V/ SUCRO, TR PHNTM OOL TO TR OOL, DUL GLD TO GLD YEL FLO FLO, MLKY TO FR TO GD RING CUT, ABDT PR TO FR TO TR GD MICRO PP TO INTR XLN POR, QUEST PERM IP, HVY TR LT TO MD GRY CHRT

4892' - LS- GRY TO TN, CRYPTO XLN, TR S-CHLK, PCKSTN & S-LITHOGR, DUL YEL FLO, NO CUT, NO VIS POR

4910'-4916' SH- V/DK GRY TO BLCK, CARB

4916'-4929' LS- LT GRY TO TN, CRYPTO TO V//FN XLN, S-SUCRO TO TR SUCRO & PCKSTN, TR PHNTM OOL TO TR OOL, DUL YEL FLO IP, NO CUT, TR PR MICRO PP POR

4929'-4932' SH- V/DK GRY TO BLCK, CARB

4932'-4941' LS- SIMILAR TO 4916'-4929'

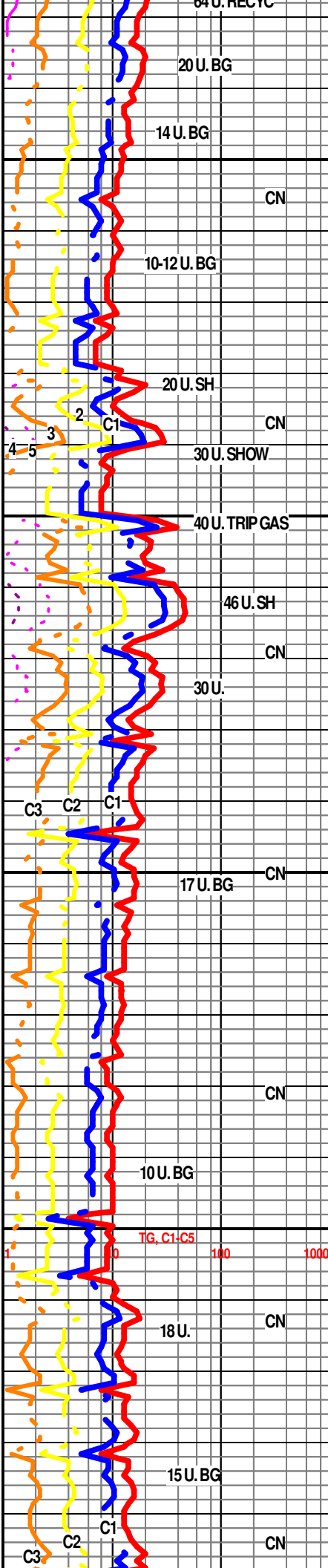
4941'-5009' INTRBD &/OR GRADATIONAL LS

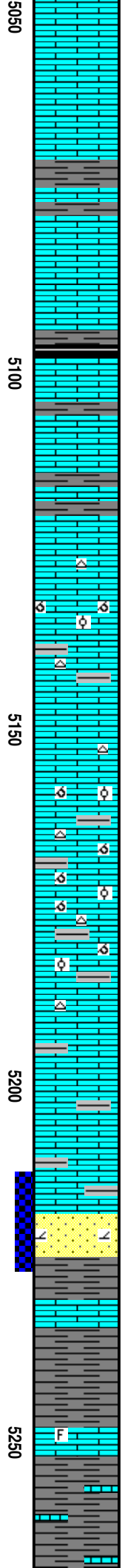
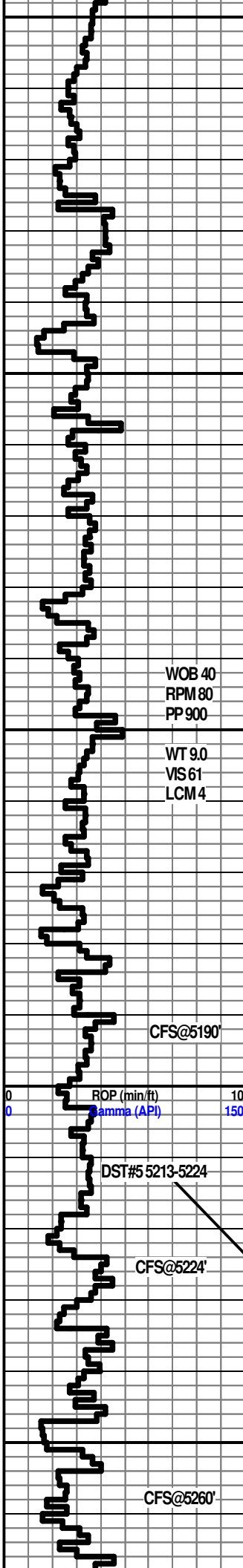
1. LS- MD TO DK GRY, SLI TO EXTRLY SHLY GRND TO CALC SHS, CRYPTO TO TR V//FN XLN, S-CHLK &/OR SHLY, TR S-SUCRO, PCKSTN & TR S-LITHOGR, NO FLO, NO CUT, NO VIS POR

2. LS- GRY TO TN, CRYPTO TO V//FN XLN, TR S-SUCRO, PCKSTN & TR S-LITHOGR, DUL YEL FLO IP; NO CUT, NO VIS POR

5009'-5016' DOLO LS- GRY TO CRM, V//FN XLN, S-SUCRO TO SUCRO, V/DUL YEL FLO IP; NO CUT, TR PR MICRO PP POR, IP, POSS INTR XLN POR IP

5016'-5045' INTRBD &/OR GRADATIONAL LS SIMILAR TO 4941'-5009'





5045'-5131' INTRBD LS & SH

1. LS- MD TO DK GRY, SLI TO EXTRLY SHLY GRND TO CALC SHS, CRYPTO TO TR VV/FN XLN, S-CHLK &/OR SHLY, TR S-SUCRO, PCKSTN & TR S-LITHOGR, NO FLO, NO CUT, NO VIS POR

2. LS- GRY TO TN, CRYPTO TO VV/FN XLN, TR S-SUCRO, PCKSTN & TR S-LITHOGR, DUL YEL FLO IP, NO CUT, NO VIS POR

3. SH- MD TO V/DK GRY, SLI TO EXTRLY CALC

4. SH- V/DK TO BLCK, CARB

5131'- 5175' LS- TN GRDING TO HVY TR LT MD GRY, CRYPTO TO VV/FN XLN, HVY TR TOABDT S-SUCRO TO SUCRO & PCKSTN & S-LITHOGR, FR TO GD OIL ODOR, S-SUCRO TO SUCRO W/ PHTNM OOL IP, SLI DRKR TN SPTD TO EVEN OIL STN, W/ DUL GLD TO GLD YEL FLO, FLUSH TO GD STRMING TO GD RING CUTS, HVY TR PR TO FR & TR GD MICRO PP POR & INTR XLN POR, QUEST PERM IP, TR GRY TO TN CHRT, SCATT THIN INTRBD SH- MD TO DK GRY, CALC- TO V/DK TO BLCK, CARB

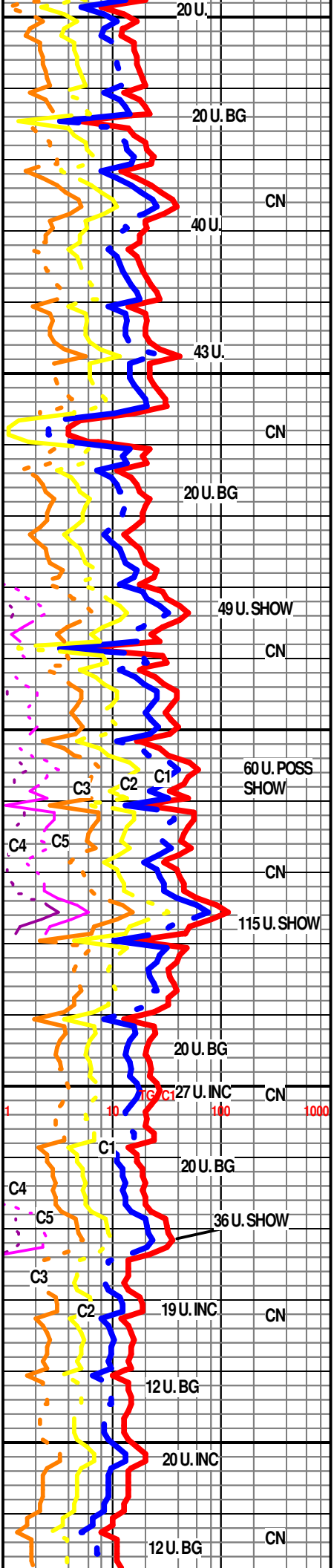
5175'-5218' INTERBEDDED LS & SHALES SIMILAR TO 5045-5131'

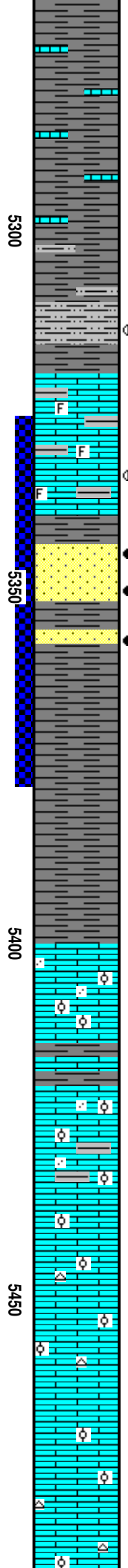
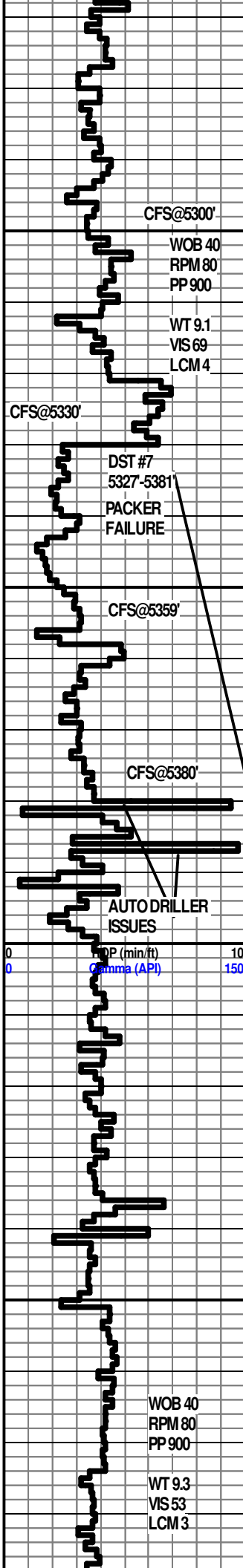
5218'-5223' QURTZ SS- LT GRY TO TN TO LT BRN OIL STN, VV/FN-TO FN GRN, SLI TO FRRLY CALC IP'S TO SIL DOLO, SILT FILLED IP'S GOOD OIL ODOR, YEL TO GLDN YEL FLUOR, W/ STRMING TO GD RING CUTS, HVY TR PR TO FR & TRS GD MICRO PP POR & PROB INTER-GRN POR, QUEST PERMS

5230'-5234' LMS- TN TO SLI DRK TAN (SPTD TO EVEN OIL STN), CRYPTO TO V V-FN XLN, SUB-SUCRO TO SUCRO PCKSTN, DUL GLD TO GLD YEL FLO, FR TO GD STRMY CUT, TR PR TO TR FR MICRO-PP & INTER-XLN POR, QUST PERM

MORROW 5230 -2271'

5247'-5251' FRAGM LMS- LT GRY TO TAN MOTT IP SPTD TN OIL STN, V FN TO CORS GRN, COMPS LMGET FOSS FRGM, SLI TR OOLCST MTRX, SUB SUCRO TO SUCRO, DUL GLD TO GLD YEL FLO, FR TO GD STRMY CUT, TR PR TO SLI TR FR PP TO INTER-GRN POR, SLI TR FR TO GD OOLCST POR, QUST PERM





5251'-5300' SH- MD GRY, SFT, SLTY CLSTERS IP, DRK GRY SPLNTY IP W/ EXTR ABDT LMS, LT TO MD GRY TO EXTR SHLY TO TR TN, CRYPTO TO VV-FN-XLN, S-SUCRO, PACKSTN & TR SUB-LITHOGR, SLI TR V DUL YEL FLO, NO CUT, NO VIS POR

5300'-5321' SLTSTN- LT TO MD GRY GRY SH FILLD, NO VIS FLO, NO VIS CUT, NO VIS POR, GRDING SH MD TO DRK GRY, ABDT SLI TO EXTRM SLTY

5321'-5330' FRGM LMS- LT MD TO DRK TN, SLI TO EXTRM SHLY TO LT GRY TO TN MOTT IP, V FN TO CORSE GRNS, GRNS COMPS LM GRN & FOSS FRG MATRX GRY SH, S-SUCRO, TO SCURO & PACKSTN, SLI TR TN TO LT BRN SPTD STN, DUL YEL FLO, SLW FR TO GD STRMY CUTS, NO VIS POR

5330'-5340' FRGM LMS- SAME AS 5321'-5330' BCMING V QRTZ SDY IP, TR QRTZ SDSTN LIKE 5343'-5341'

5343'-5359' QRTZ SS- LT TO MD GRY & EXTRM ABDT LT TN TO TN FRM OIL STN, FR TO GD OIL ODOR, VV-FN TO V-FN GRNS, ANG GRNS, PR TO TR FR SORT, SCATT TR GLAUC, SLW FAINT STRM TO MILKY & FR TO GD RING CUTS, HVYTR TO ABDT PR TO FR MICRO-PP POR & PROB INTER GRN POR IP, QUEST PERM

5359'-5380' SH- MD GRY, SFT, SLTY TEXT, DRK GRY SPLNTY IP, SLTY IP, TR QRTZ SS W/ SHOW PROB FROM 5343'-5358' & HVY TR LMS CRM TO V LT TN, CRYPTO TO VV-FN XLN, S-SUCRO & PACKSTN, DUL LT YEL FLO, NO VIS POR, NO VIS CUT

5380'-5399' SAMPLES SIMILAR TO 5358'-5380' W/ TR TO ABDT VERIGATED SH, GRN TO RED, POSS INPLACE

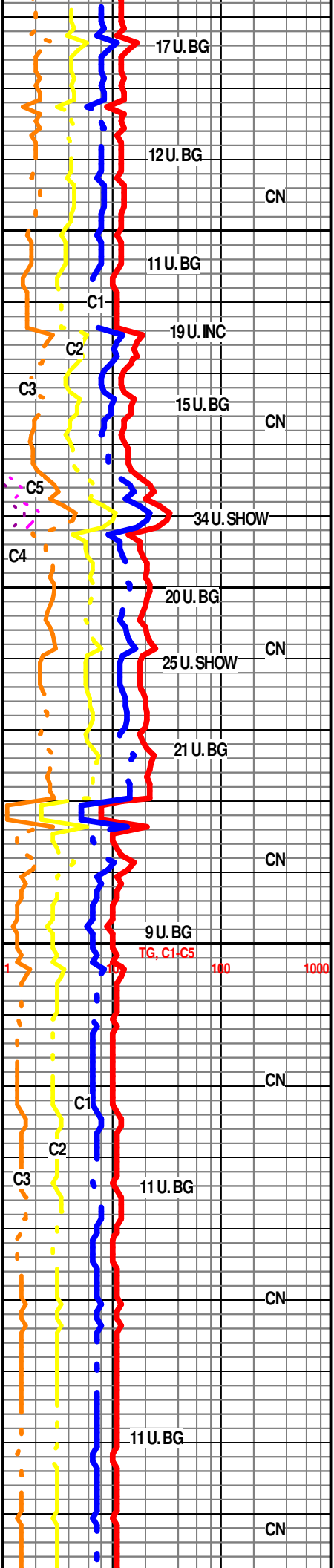
CHESTER 5399' -2440'

5399'-5436' REWORKED ST GEN LS- CRM LT TN TO GRY IP, CRYPTO TO VV/FN XLN, EXTRLY MICRO OOL & SLI TO FRLY QRTZ SDY, VV/FN GR, S-ANG, S-SUCRO TO SUCRO, DUL YEL FLO, NO CUT, NO VIS POR, W/ INTRBD SH- MD TO TR DK GRY, MATT TXT

ST GEN 5436' -2477'

5436'-5451' LS- CRM LT TN TO GRY IP, CRYPTO TO VV/FN XLN, EXTRLY MICRO OOL, AND FRLY QRTZ SDY, VV/FN GRN, ANG, TR CHLK, S-CHLK, S-SUCRO TO SUCRO, DUL YEL FLO, NO CUT, NO VIS POR

5451'-5513' LS- LT TN TO GRY IP, CRYPTO TO VV/FN XLN, V/ TO EXTRLY OOL (SM MD TO TR LG), TR S-CHLK, S-SUCRO & PCKSTN & TR S-LITHOGR, DUL YEL FLO, NO CUT, NO VIS POR, TR ORNG CHRT



17 U. BG

12 U. BG

CN

11 U. BG

C1

19 U. INC

C2

C3

15 U. BG

CN

C5

34 U. SHOW

C4

20 U. BG

25 U. SHOW

CN

21 U. BG

CN

9 U. BG

TG, C1-C5

CN

C1

11 U. BG

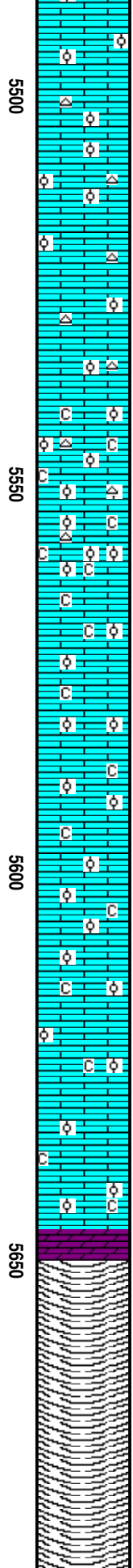
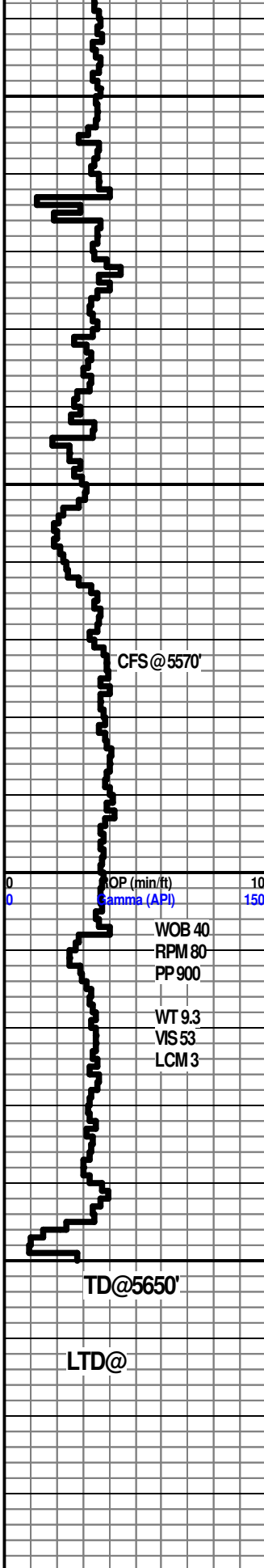
C3

C2

CN

11 U. BG

CN



5513'-5538' LS- SIMILAR TO 5451'-5513' W/ HVY TR TOABDT WHT TO CRM CHLK

5538'-5553' LS- HVY TR TOABDT WHT TO CRM CHLK, TR W/ CHLK OOL & CRM TN TO GRY IP, CRYPTO TO V/V/FN XLN, V/ TO EXTRLY OOL (MD TO LG & TR SM), CHLK, S-CHLK, S-SUCRO & TR PCKSTN, DUL YEL FLO, NO CUT, NO VIS POR, HVY TR WHT GRY TO ORNG CHRT

5553'-5562' SAMPLES 80 TO 99% MORROW SH CAVINGS, LS- TR WHT TO CRM CHLK, CRM TO TN, CRYPTO TO V/V/FN XLN, V/ TO EXTRLY OOL (MD TO LG), CHLK, S-CHLK, S-SUCRO & TR SUCRO, FEW TNY PIECES W/ POSS OIL STN, YEL FLO & MLKY CUT, W/ TR MICRO PP POR TO INTR XLN POR, HVYTR LOOSE OOL, TR WHT GRY TO ORNG CHRT

4462'-5608' LS- TR WHT TO CRM CHLK, TN, CRYPTO TO V/V/FN XLN, TO TO EXTRLY OOL (SM MD TO TR LG), S-CHLK S-SUCRO TO SUCRO & PCKSTN, DUL YEL FLO, NO CUT, NO VIS POR

5608'-5614' LS- TR WHT OT CRM CHLK, CRM TO TN, CRYPTO TO V/V/FN XLN, V/ TO EXTRLY OOL (MD TO LG & TR SM), S-CHLK, S-SUCRO TO TR SUCRO & PCKSTN, DUL YEL FLO, NO CUT, NO VIS POR

5614'-5645' LS- TR WHT TO CRM CHLK, TN TO GRY IP, CRYPTO TO V/V/FN XLN, TR S-CHLK, S-SUCRO, PCKSTN TO TR S-LITHOGR, W/ TR TO ABLT PHNTM OOL TO TR V/ TO EXLTRLY OOL (SM MD TO LG), DUL YEL FLO, NO CUT, NO VIS POR

5645-5650' DOLO- V/ MY, LT GRY TO TN, V/V/FN XLN, S-SUCRO TO SUCRO, YEL FLO, NO CUT, NO VIS POR

R.T.D. @ 5650' 11/26/19 2:10 AM

CFS 1.5 HOURS

SHORT TRIP 10 STANDS

CTCH 1.5 HOURS

TOFL

HALIBURTON

