

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	Stewart Producers, Inc.
Well Name	PEDDIE-HOOVLER 1
Doc ID	1467483

Tops

Name	Top	Datum
Anh	1624	+711
Base Anh	1655	+680
Heebner	3692	-1357
Lansing	3735	-1400
BKC	4068	-1733
Ft. Scott	4237	-1902
Cherokee Sh.	4262	-1927
Miss.	4342	-2007



Home
(785) 798-2400

Andrew Stenzel Geologist

Ness City, Kansas



Cell
(785) 798-5977

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

Well Name: **Peddie-Hoovler #1**
API: **15-135-26074-00-00**
Location: **NE-SE-SW-NW Sec. 8-18S-24W (Ness County)**
License Number: **34996** Region: **KANSAS**
Spud Date: **7/11/19** Drilling Completed: **7/19/19**
Surface Coordinates: **2014' FNL & 1168' FWL**

Bottom Hole
Coordinates:
Ground Elevation (ft): **2328** K.B. Elevation (ft): **2335**
Logged Interval (ft): **3300** To: **TD** Total Depth (ft): **4420**
Formation: **MISSISSIPPI**
Type of Drilling Fluid: **Mud-Co Chemical**

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

OPERATOR

Company: **Stewart Producers, Inc.**
Address: **301 N 27th St.**
PO Box 546
Mt. Vernon, IL 62864

GEOLOGIST

Name: **Andrew Stenzel**
Company: **Petroleum Geologist**
Address: **501 S. Franklin**
Ness City, KS 67560

Drilling Report

DAILY DRILLING REPORT:

7/11/19 **MIRU, set surface casing**
7/12/19 **Wait on cement**
7/13/19 **Drilling @ 1408'**
7/14/19 **Drilling @ 2803'**
7/15/19 **Drilling @ 3374'**
7/16/19 **Drilling @ 3930'**
7/17/19 **Drilling @ 4234'**
7/18/19 **DST #1, Circulating @ 4370'**
7/19/19 **Ran electric logs, DST #2, plugged and abandoned**

Services

RIG: Pickrell Drilling, Rig #10

MUD: MUDCO

LOGS: ELI Wireline: CNDL, PE, DIL, ML

Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", set at 253'

PRODUCTION Casing: None

Formation Tops

Sample Tops		Log Tops	
Anhy.	1615 (+720)	Anhy.	1624 (+711)
Base Anhy.	1653 (+704)	Base Anhy.	1655 (+680)
Topeka	3405 (-1070)	Topeka	3406 (-1071)
Heebner	3691 (-1356)	Heebner	3692 (-1357)
Lansing	3734 (-1399)	Lansing	3735 (-1400)
Stark Sh	4014 (-1679)	Stark Sh	4013 (-1678)
BKC	4069 (-1734)	BKC	4068 (-1733)
Pawnee	4161 (-1826)	Pawnee	4160 (-1825)
Ft. Scott	4335 (-1900)	Ft. Scott	4237 (-1902)
Cher. Sh.	4258 (-1923)	Cher. Sh.	4262 (-1927)
Miss.	4348 (-2013)	Miss.	4342 (-2007)
RTD	4420 (-2085)	LTD	4422 (-2087)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Stewart Producers Inc
 PO Box 546
 MT Vernon IL 62864+0546
 ATTN: Andrew Stenzel

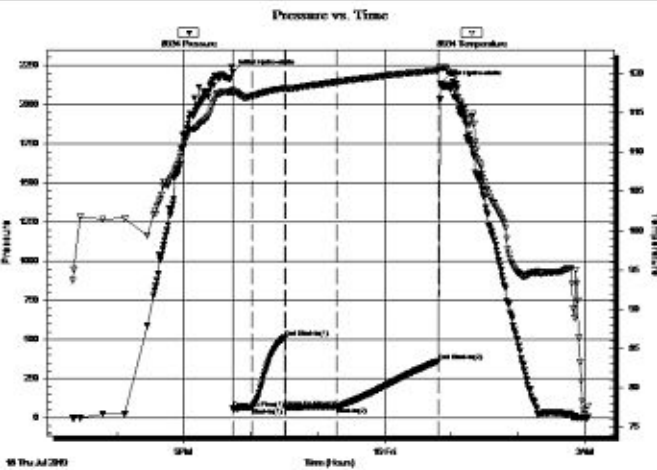
8-18s-24w Ness, KS
Peddie-Hoovler #1
 Job Ticket: 65966 **DST#: 1**
 Test Start: 2019.07.18 @ 19:20:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:44:15
 Time Test Ended: 03:02:45
 Interval: **4278.00 ft (KB) To 4356.00 ft (KB) (TVD)**
 Total Depth: 4356.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2335.00 ft (KB)
 2327.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8934 Inside
 Press@RunDepth: 70.92 psig @ 4281.00 ft (KB)
 Start Date: 2019.07.18 End Date: 2019.07.19
 Start Time: 19:20:15 End Time: 03:02:45
 Capacity: 8000.00 psig
 Last Calib.: 2019.07.19
 Time On Btm: 2019.07.18 @ 21:43:45
 Time Off Btm: 2019.07.19 @ 00:50:15

TEST COMMENT: 15-IF-Weak; Built to 3 1/2"
 30-ISI-No Return
 45-FF-Weak; Built to 1 1/4"
 90-FSI-No Return



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.62	117.92	Initial Hydro-static
1	60.20	117.47	Open To Flow (1)
17	66.39	117.13	Shut-In(1)
47	513.60	118.13	End Shut-In(1)
48	63.55	118.02	Open To Flow (2)
93	70.92	118.93	Shut-In(2)
186	362.93	120.43	End Shut-In(2)
187	2130.55	120.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MO 50%M 50%O	0.28
30.00	GO 30%G 70%O	0.43

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Stewart Producers Inc
 PO Box 546
 MT Vernon IL 62864+0546
 ATTN: Andrew Stenzel

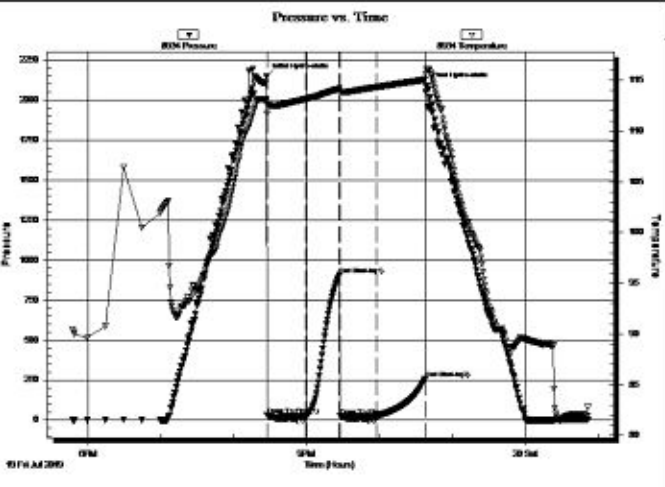
8-18s-24w Ness, KS
Peddie-Hoovler #1
 Job Ticket: 65967 **DST#: 2**
 Test Start: 2019.07.19 @ 17:47:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:27:15
 Time Test Ended: 00:51:30
 Interval: **4220.00 ft (KB) To 4277.00 ft (KB) (TVD)**
 Total Depth: 4422.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2335.00 ft (KB)
 2327.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8934 Inside
 Press@RunDepth: 26.02 psig @ 4223.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.07.19 End Date: 2019.07.20 Last Calib.: 2019.07.20
 Start Time: 17:47:15 End Time: 00:51:30 Time On Btm: 2019.07.19 @ 20:27:00
 Time Off Btm: 2019.07.19 @ 22:39:00

TEST COMMENT: 30-IF-Weak; Built to 1/2"
 30-ISI-No Return
 30-FF-No Blow
 30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.94	113.07	Initial Hydro-static
1	29.32	111.71	Open To Flow (1)
32	23.53	113.14	Shut-In(1)
60	908.49	114.16	End Shut-In(1)
61	26.42	113.65	Open To Flow (2)
91	26.02	114.32	Shut-In(2)
131	257.24	115.06	End Shut-In(2)
132	2088.10	116.10	Final Hydro-static

Recovery


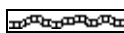
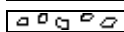
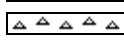
Length (ft)	Description	Volume (bbl)
30.00	OSM 100%M	0.43

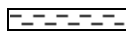



Gas Rates





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

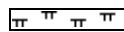

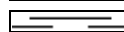
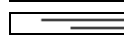
* Recovery from multiple tests

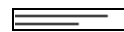



ROCK TYPES

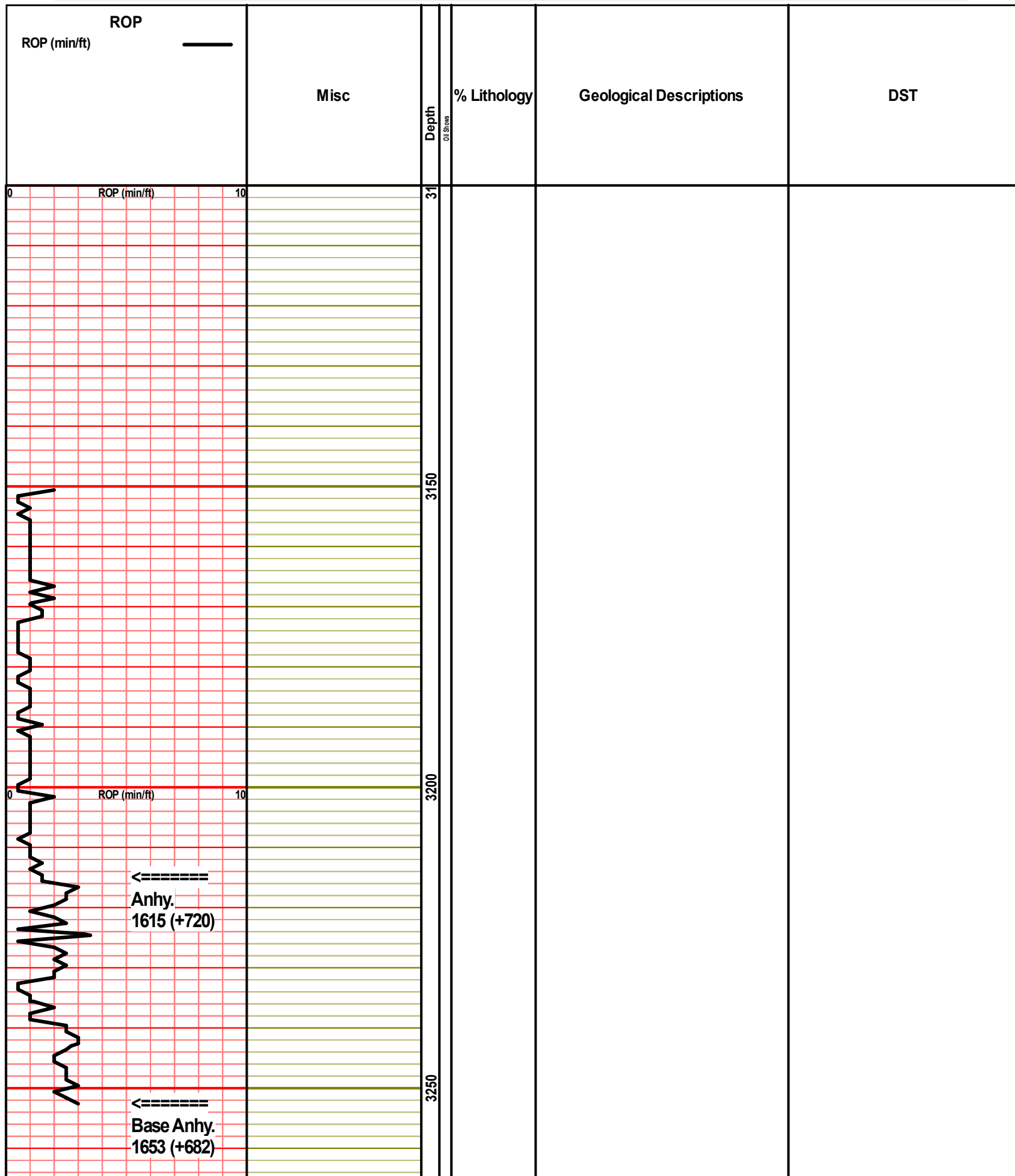
-  Anhy
-  Bent
-  Brec
-  Cht

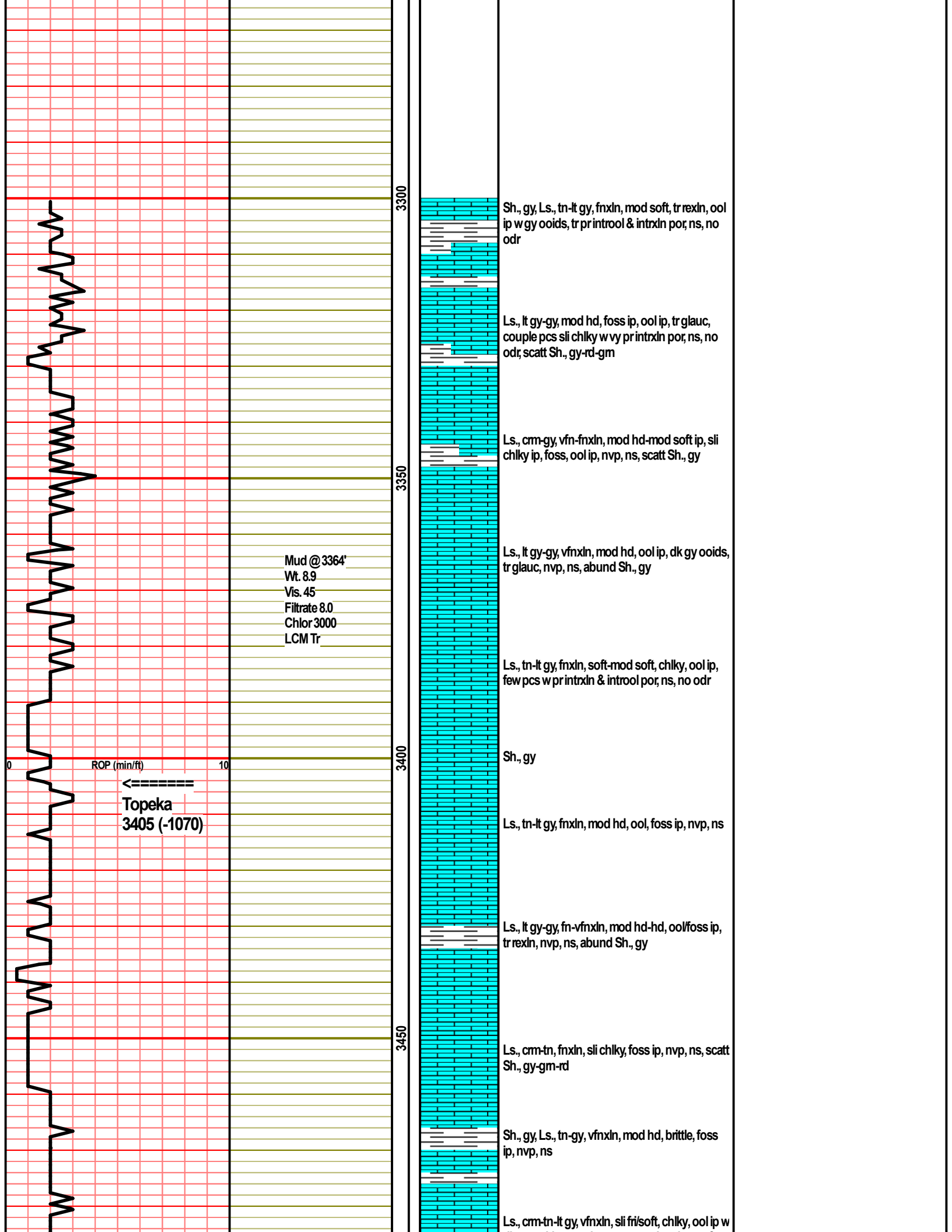
-  Clyst
-  Carb shale
-  Congl
-  Dol

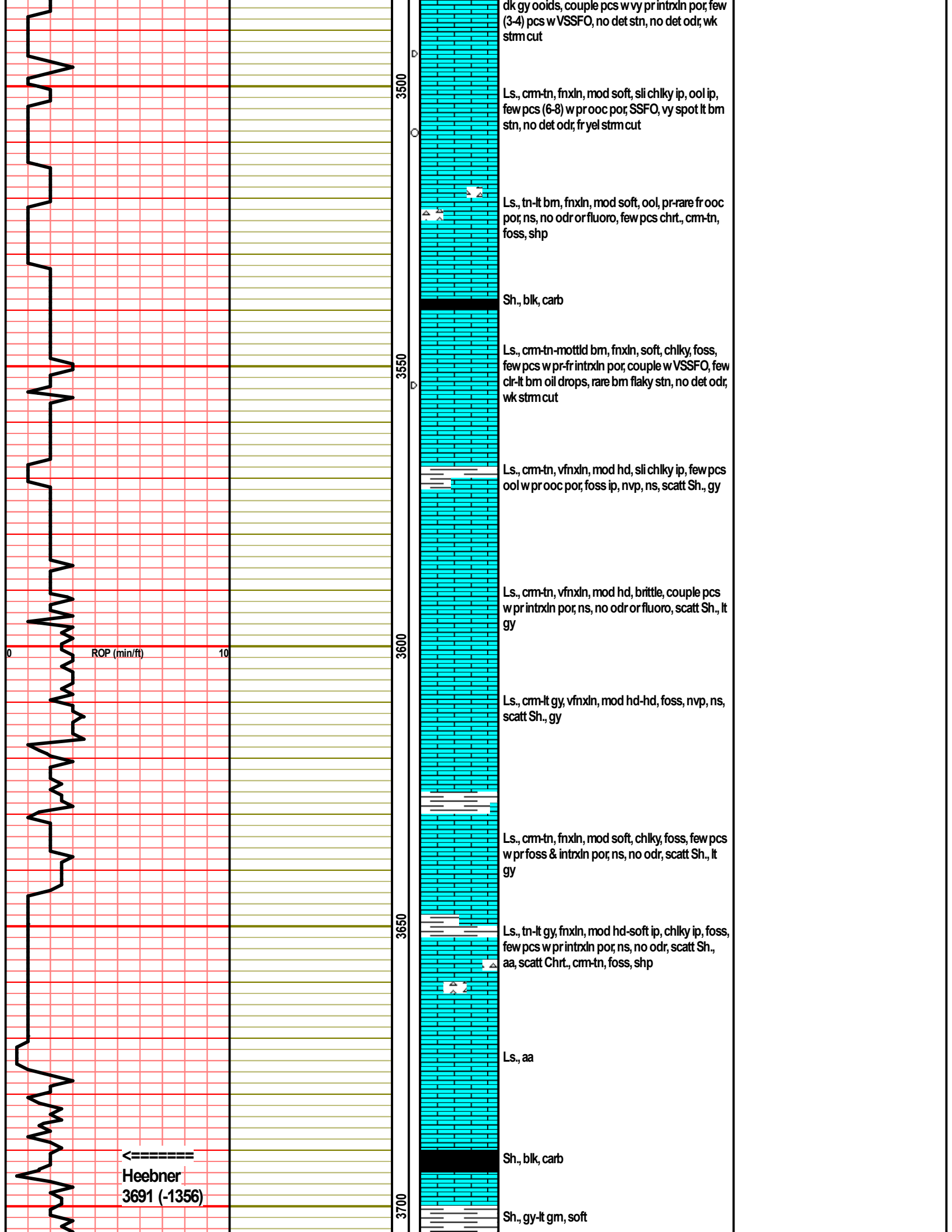
-  Gyp
-  Igne
-  Lmst
-  Meta

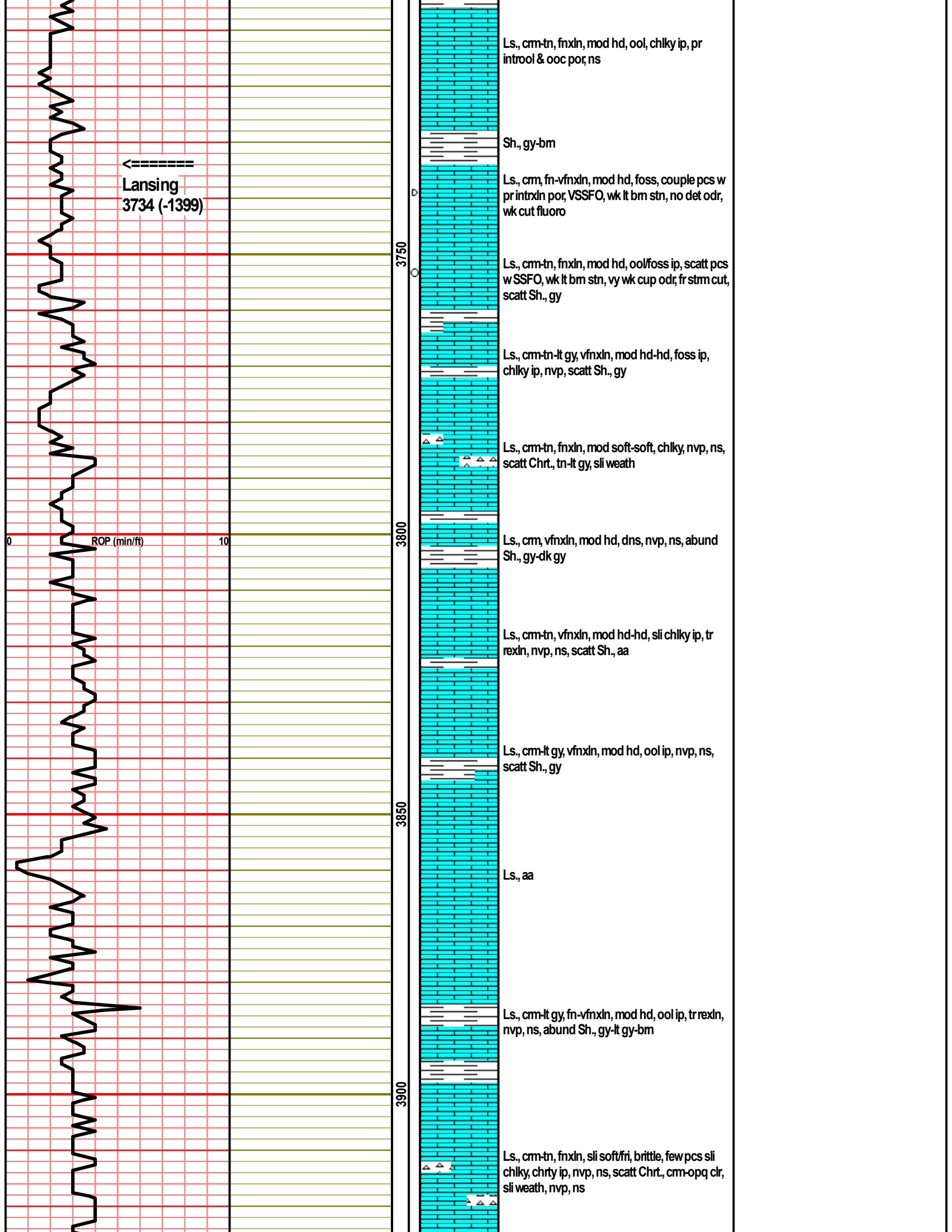
-  Mrlst
-  Salt
-  Shale
-  Shcol

-  Shgy
-  Sltst
-  Ss
-  Till









Lansing
3734 (-1399)

ROP (min/ft)

3750

3800

3850

3900

Ls., cm-tn, fnxln, mod hd, ool, chlky ip, pr introol & ooc por, ns

Sh., gy-bm

Ls., cm, fn-vfnxln, mod hd, foss, couple pcs w pr intrxln por, VSSFO, wk lt bm strn, no det odr, wk cut fluoro

Ls., cm-tn, fnxln, mod hd, ool/foss ip, scatt pcs w SSFO, wk lt bm strn, vy wk cup odr, fr strm cut, scatt Sh., gy

Ls., cm-tn-lt gy, vfnxln, mod hd-hd, foss ip, chlky ip, nvp, scatt Sh., gy

Ls., cm-tn, fnxln, mod soft-soft, chlky, nvp, ns, scatt Chrt., tn-lt gy, sli weath

Ls., cm, vfnxln, mod hd, dns, nvp, ns, abund Sh., gy-dk gy

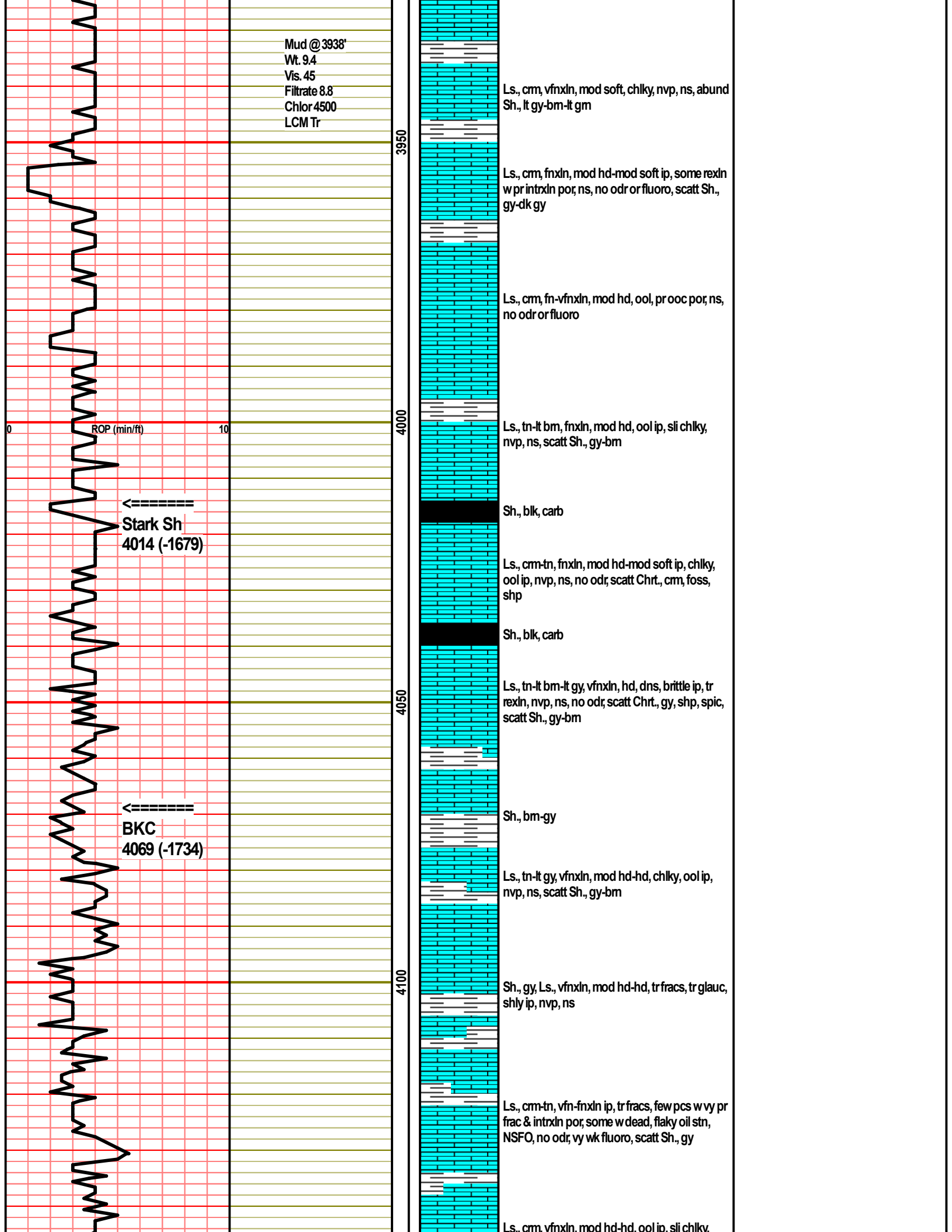
Ls., cm-tn, vfnxln, mod hd-hd, sli chlky ip, tr rexln, nvp, ns, scatt Sh., aa

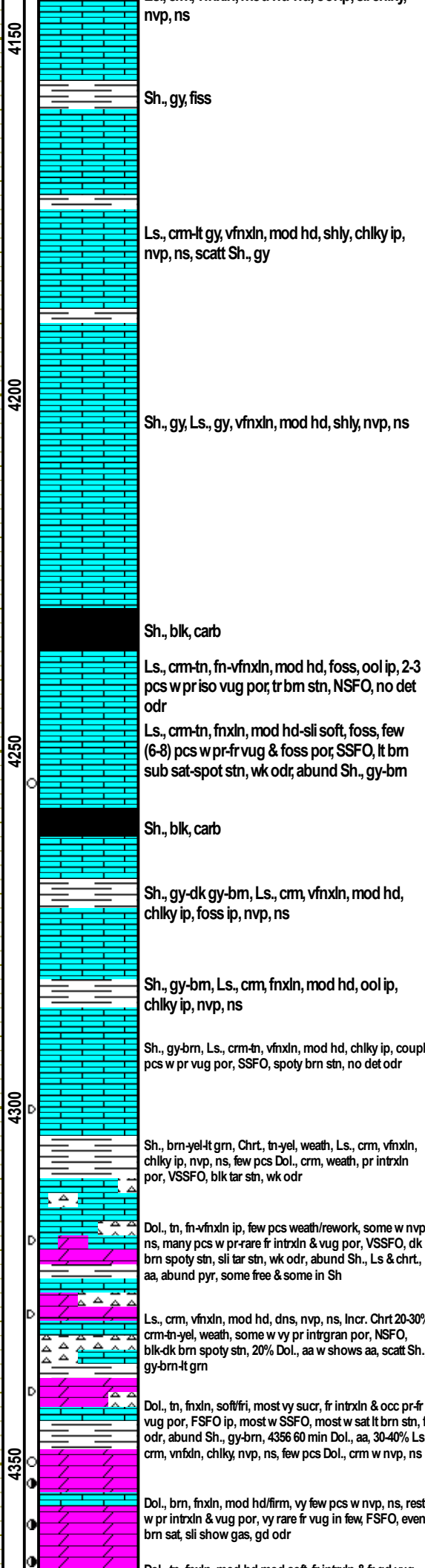
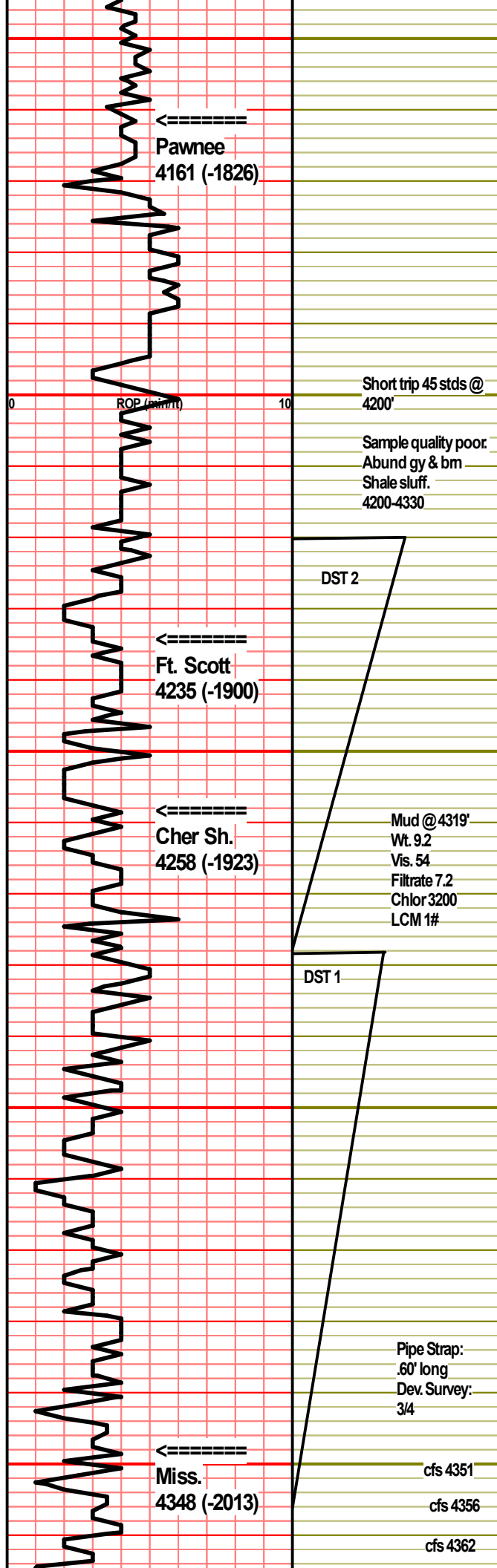
Ls., cm-lt gy, vfnxln, mod hd, ool ip, nvp, ns, scatt Sh., gy

Ls., aa

Ls., cm-lt gy, fn-vfnxln, mod hd, ool ip, tr rexln, nvp, ns, abund Sh., gy-lt gy-bm

Ls., cm-tn, fnxln, sli soft/fri, brittle, few pcs sli chlky, chrt ip, nvp, ns, scatt Chrt., cm-opq clr, sli weath, nvp, ns





**DST #2 4220-4277
(Ft. Scott)**

30-30-30-30
IF: WSB, built to 1/2"
IS: No blow
FF: No blow
FS: No blow

Recovery:
30' OSM (100%*M*)

FP: 29-24; 26-26
SIP: 908-257
HP: 2146-2088

BHT: 115
Gravity: -
Chlor: —

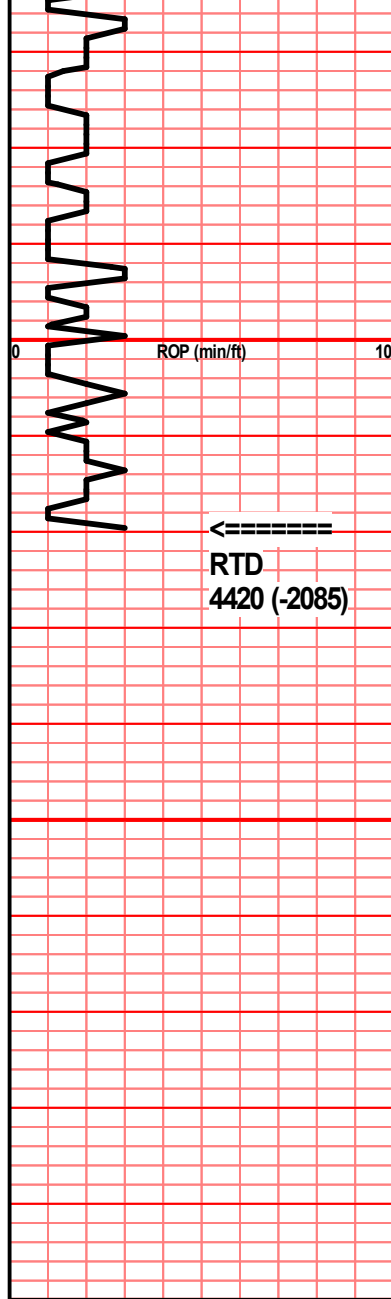
**DST #1 4278-4356
(Mississippi)**

4278-4356
15-30-45-90
IF: WSB, built to 3 1/2"
IS: No blow
FF: WSB, built to 1 1/4"
FS: No blow

Recovery:
20' MO (50%*M*, 50%*O*)
30' GO (30%*G*, 70%*O*)

FP: 60-66; 64-71
SIP: 514-363
HP: 2206-2131

BHT: 120
Gravity: 39
Chlor: —



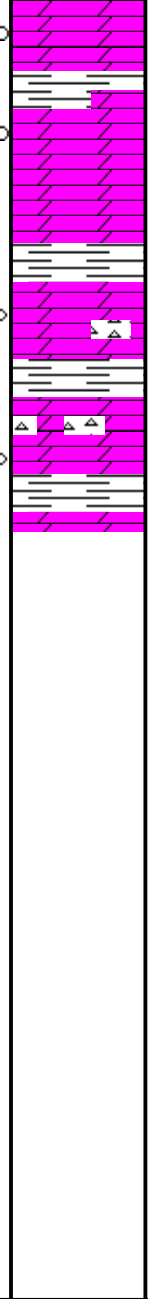
cfs 4370

Mud @4420'
 Wt. 9.3
 Vis. 61
 Filtrate 7.6
 Chlor 3800
 LCM 1#

4400

4450

00



Dol., tn, inxn, mod no-mod sot, ir inxn & ir-ga vug por, SSFO, FSFO in few, some spoty blk stn, vy few w sli show gas, 20-30% barren, fr odr

Dol., crm-tn, fnxn, mod hd, foss ip, pr-fr intrxn, vug & occ spic cast por, 20-30% w SSFO, vy few w FSFO, spot blk stn, wk odr, abund Sh., gy-lt gy

Dol., aa, decr shows, abund Sh., aa, scatt Chrt., wht-clr, broken/weath

Dol., cm, fnxn, mod hd-sli fr, fr vug por, couple pcs w VSSFO, tr blk stn, no det odr, abund Sh., gy-lt gy, scatt Chrt., aa

Customer <i>Stewart + Well</i>	Lease No. <i>1</i>	Date <i>7-11-2019</i>	
Lease <i>Peddie-Howler</i>	Well # <i>1</i>		
Field Order # <i>18091</i>	Station <i>Pratt, KS. #1718</i>	Casing <i>8-5/8</i>	Depth <i>253</i>
Type Job <i>Surface</i>	Formation	County <i>Ness</i>	State <i>Kansas</i>
		Legal Description <i>8-185-24W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8-5/8</i>								
Depth <i>253'</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>Justin Westerman</i>	Treater <i>Carl Baldwin</i>
-------------------------	---	-----------------------------

Service Units	<i>77686</i>	<i>88779</i>	<i>19959</i>	<i>19862</i>					
Driver Names	<i>Mike</i>	<i>McBraw</i>	<i>Cole</i>	<i>Cobb</i>					

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>7:30 AM</i>					<i>on location + Rig up</i>
					<i>Run 253' 8-5/8 casing</i>
<i>11:30 AM</i>					<i>Break circulation with Rig</i>
<i>11:45 AM</i>	<i>3</i>		<i>5</i>	<i>3</i>	<i>start Freshwater</i>
	<i>150</i>		<i>37 3/4</i>	<i>5</i>	<i>mix 175 sk 60:40: Poz + 3% cc + 1/4" cells</i>
	<i>180</i>		<i>14 3/4</i>	<i>4</i>	<i>Displace with 14 3/4 Bbbs water</i>
<i>12:15 AM</i>	<i>180</i>				<i>leave 20' cement in casing</i>
					<i>shot in</i>
					<i><u>Cement Did Circulate</u></i>
					<i>Thank you</i>

GLOBAL OIL FIELD SERVICES, LLC

13772

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>7-20-19</u>	SEC. <u>9</u>	TWP. <u>18</u>	RANGE <u>29 W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>8:30 a.m.</u>
LEASE <u>Peddle</u>	WELL #. <u>1</u>	LOCATION <u>N of Russell City, KS to RD 170</u>		COUNTY <u>NESS</u>	STATE <u>KS</u>		
OLD OR NEW (CIRCLE ONE)			<u>4 West South 1140</u>				

CONTRACTOR Pickrell Drilling Rig #10

TYPE OF JOB Rotary Plug

HOLE SIZE 7 1/8 T.D. 4420

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

OWNER Stewart Productions

CEMENT AMOUNT ORDERED 230 sks 60/40 per
7% gel 1/4" per Flow Sol

EQUIPMENT

PUMP TRUCK CEMENTER Cody

517 HELPER Jason

BULK TRUCK

473 DRIVER TOM

BULK TRUCK

DRIVER

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

1650' 50 sks

900' 80 sks

300' 50 sks

600' 70 sks
Ret + hole 30 sks

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

CHARGE TO: Stewart Productions

STREET

CITY STATE ZIP

Global Oil Field Services, LLC

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Doug Budig

SIGNATURE Doug Budig

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT

IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Stewart Producers Inc**

PO Box 546
MT Vernon IL 62864+0546

ATTN: Andrew Stenzel

Peddie-Hoovler #1

8-18s-24w Ness,KS

Start Date: 2019.07.18 @ 19:20:00

End Date: 2019.07.19 @ 03:02:45

Job Ticket #: 65966 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.07.22 @ 09:20:12

Stewart Producers Inc
8-18s-24w Ness,KS
Peddie-Hoovler #1
DST # 1
Mississippi
2019.07.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Stewart Producers Inc
 PO Box 546
 MT Vernon IL 62864+0546
 ATTN: Andrew Stenzel

8-18s-24w Ness,KS
Peddie-Hoovler #1
 Job Ticket: 65966 **DST#: 1**
 Test Start: 2019.07.18 @ 19:20:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:44:15
 Time Test Ended: 03:02:45
 Interval: **4278.00 ft (KB) To 4356.00 ft (KB) (TVD)**
 Total Depth: 4356.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2335.00 ft (KB)
 2327.00 ft (CF)
 KB to GR/CF: 8.00 ft

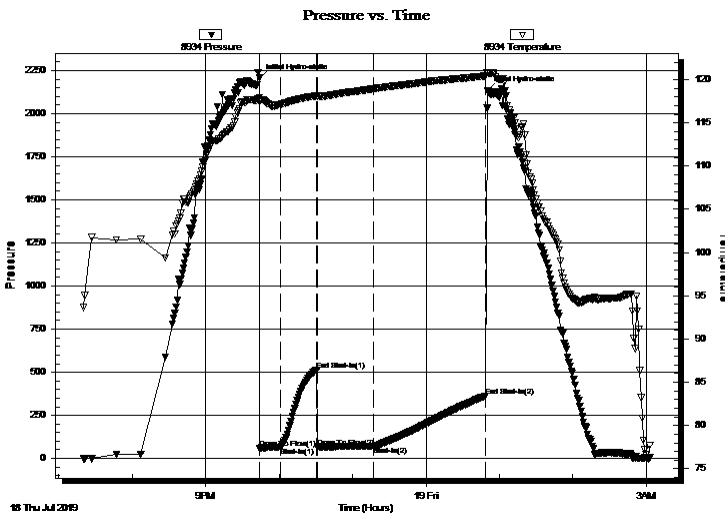
Serial #: 8934

Inside

Press@RunDepth: 70.92 psig @ 4281.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.07.18 End Date: 2019.07.19 Last Calib.: 2019.07.19
 Start Time: 19:20:15 End Time: 03:02:45 Time On Btm: 2019.07.18 @ 21:43:45
 Time Off Btm: 2019.07.19 @ 00:50:15

TEST COMMENT: 15-IF-Weak; Built to 3 1/2"
 30-ISI-No Return
 45-FF-Weak; Built to 1 1/4"
 90-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.62	117.92	Initial Hydro-static
1	60.20	117.47	Open To Flow (1)
17	66.39	117.13	Shut-In(1)
47	513.60	118.13	End Shut-In(1)
48	63.55	118.02	Open To Flow (2)
93	70.92	118.93	Shut-In(2)
186	362.93	120.43	End Shut-In(2)
187	2130.55	120.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MO 50%M 50%O	0.28
30.00	GO 30%G 70%O	0.43

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stewart Producers Inc
 PO Box 546
 MT Vernon IL 62864+0546
 ATTN: Andrew Stenzel

8-18s-24w Ness,KS
Peddie-Hoovler #1
 Job Ticket: 65966 **DST#: 1**
 Test Start: 2019.07.18 @ 19:20:00

Tool Information

Drill Pipe:	Length: 4254.00 ft	Diameter: 3.82 inches	Volume: 60.30 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	68000.00 lb
		Total Volume: - bbl		Tool Chased	ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4278.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	78.00 ft				
Tool Length:	110.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4247.00	
Shut In Tool	5.00			4252.00	
Hydraulic tool	5.00			4257.00	
gap sub	3.00			4260.00	
Jars	5.00			4265.00	
Safety Joint	3.00			4268.00	
Packer	5.00			4273.00	32.00 Bottom Of Top Packer
Packer	5.00			4278.00	
Stubb	1.00			4279.00	
Perforations	1.00			4280.00	
Change Over Sub	1.00			4281.00	
Recorder	0.00	8352	Inside	4281.00	
Recorder	0.00	8934	Inside	4281.00	
Drill Pipe	64.00			4345.00	
Change Over Sub	1.00			4346.00	
Perforations	7.00			4353.00	
Bullnose	3.00			4356.00	78.00 Bottom Packers & Anchor
Total Tool Length:	110.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stewart Producers Inc
 PO Box 546
 MT Vernon IL 62864+0546
 ATTN: Andrew Stenzel

8-18s-24w Ness,KS
Peddie-Hoovler #1
 Job Ticket: 65966 **DST#: 1**
 Test Start: 2019.07.18 @ 19:20:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3200.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MO 50%M 50%O	0.284
30.00	GO 30%G 70%O	0.425

Total Length: 50.00 ft Total Volume: 0.709 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 1#LCM

Serial #: 8934

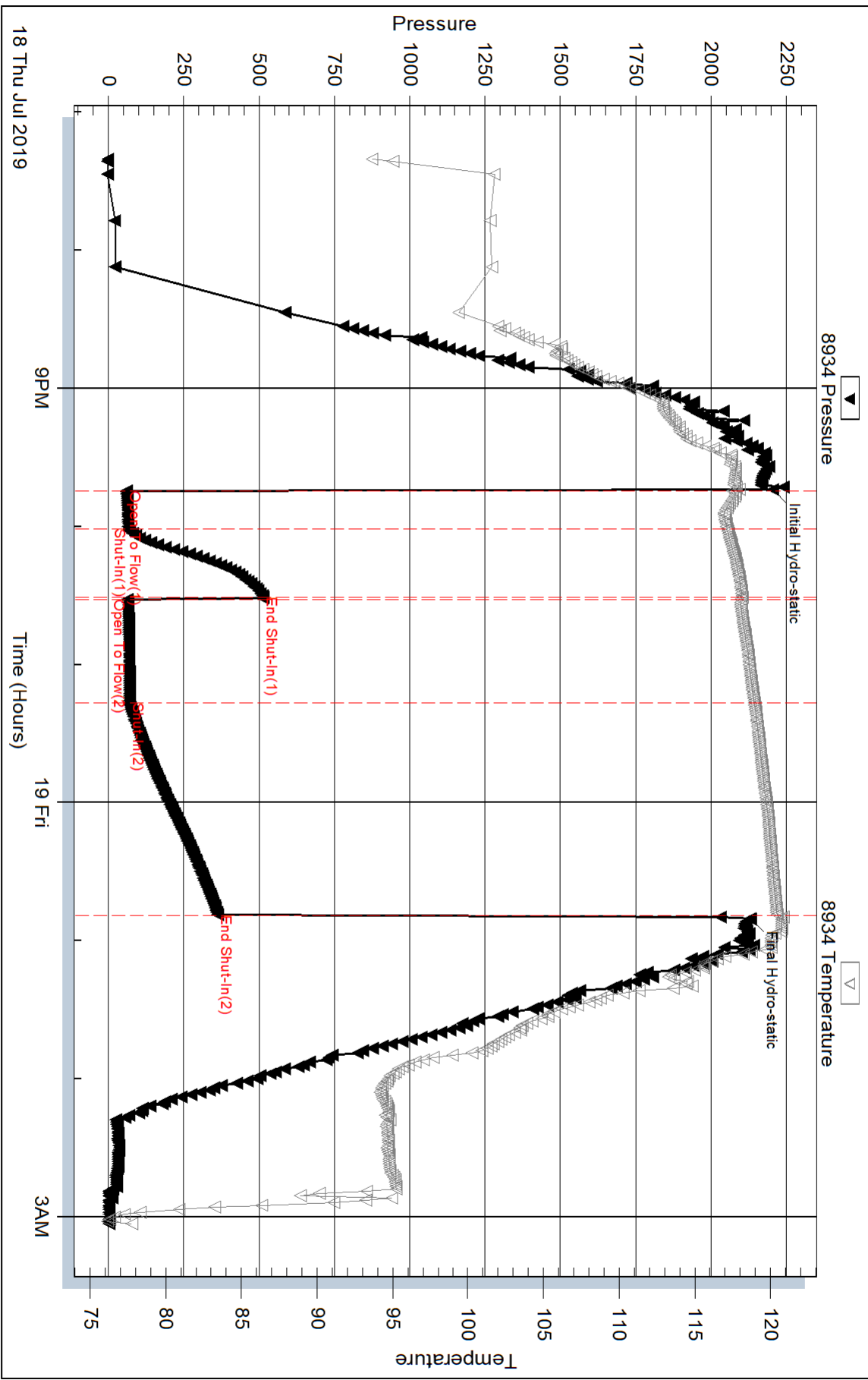
Inside

Stewart Producers Inc

Peddie-Hoover #1

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 65966

Printed: 2019.07.22 @ 09:20:13

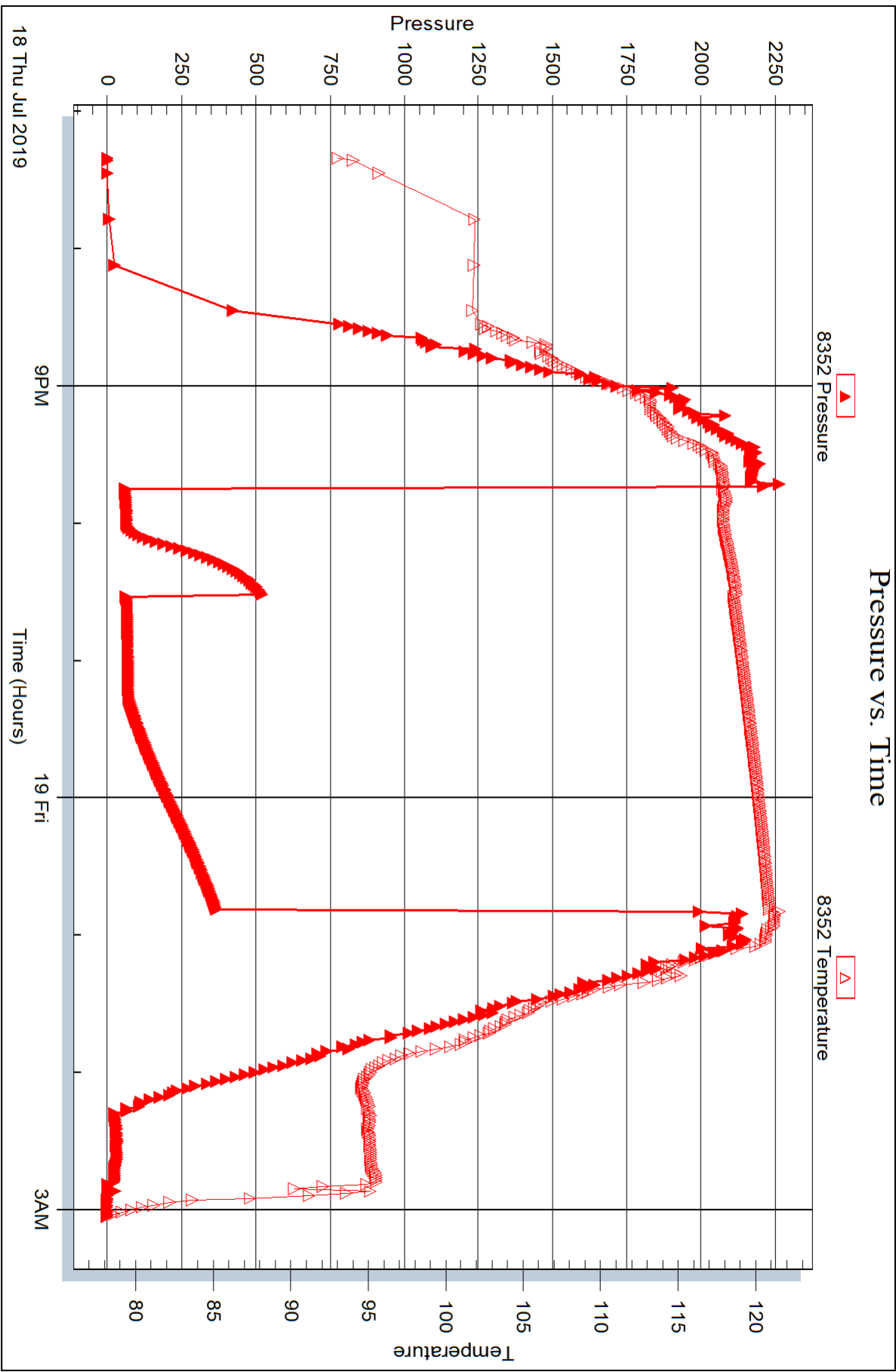
Serial #: 8352

Inside

Stewart Producers Inc

Peddie-Hoover #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Stewart Producers Inc**

PO Box 546
MT Vernon IL 62864+0546

ATTN: Andrew Stenzel

Peddie-Hoovler #1

8-18s-24w Ness,KS

Start Date: 2019.07.19 @ 17:47:00

End Date: 2019.07.20 @ 00:51:30

Job Ticket #: 65967 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.07.22 @ 09:19:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Stewart Producers Inc
 PO Box 546
 MT Vernon IL 62864+0546
 ATTN: Andrew Stenzel

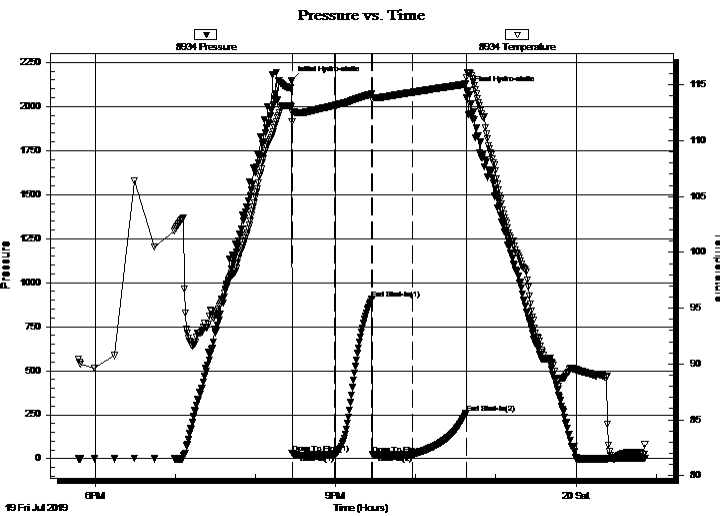
8-18s-24w Ness, KS
Peddie-Hoovler #1
 Job Ticket: 65967 **DST#: 2**
 Test Start: 2019.07.19 @ 17:47:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:27:15
 Time Test Ended: 00:51:30
 Interval: **4220.00 ft (KB) To 4277.00 ft (KB) (TVD)**
 Total Depth: 4422.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2335.00 ft (KB)
 2327.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8934 Inside
 Press@RunDepth: 26.02 psig @ 4223.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.07.19 End Date: 2019.07.20 Last Calib.: 2019.07.20
 Start Time: 17:47:15 End Time: 00:51:30 Time On Btm: 2019.07.19 @ 20:27:00
 Time Off Btm: 2019.07.19 @ 22:39:00

TEST COMMENT: 30-IF-Weak; Built to 1/2"
 30-ISI-No Return
 30-FF-No Blow
 30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.94	113.07	Initial Hydro-static
1	29.32	111.71	Open To Flow (1)
32	23.53	113.14	Shut-In(1)
60	908.49	114.16	End Shut-In(1)
61	26.42	113.65	Open To Flow (2)
91	26.02	114.32	Shut-In(2)
131	257.24	115.06	End Shut-In(2)
132	2088.10	116.10	Final Hydro-static

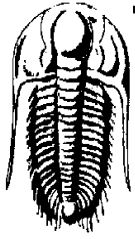
Recovery

Length (ft)	Description	Volume (bbl)
30.00	OSM 100%M	0.43

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stewart Producers Inc
 PO Box 546
 MT Vernon IL 62864+0546
 ATTN: Andrew Stenzel

8-18s-24w Ness,KS
Peddie-Hoovler #1
 Job Ticket: 65967 **DST#: 2**
 Test Start: 2019.07.19 @ 17:47:00

Tool Information

Drill Pipe:	Length: 4222.00 ft	Diameter: 3.82 inches	Volume: 59.85 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	4220.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	4422.00 ft				
Interval between Packers:	202.00 ft				
Tool Length:	234.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4189.00	
Shut In Tool	5.00			4194.00	
Hydraulic tool	5.00			4199.00	
gap sub	3.00			4202.00	
Jars	5.00			4207.00	
Safety Joint	3.00			4210.00	
Packer	5.00			4215.00	32.00 Bottom Of Top Packer
Packer	5.00			4220.00	
Stubb	1.00			4221.00	
Perforations	1.00			4222.00	
Change Over Sub	1.00			4223.00	
Recorder	0.00	8934	Inside	4223.00	
Recorder	0.00	8352	Inside	4223.00	
Drill Pipe	32.00			4255.00	
Change Over Sub	1.00			4256.00	
Perforations	16.00			4272.00	
Blank Off Sub	1.00			4273.00	
Top S. Packer	4.00			4277.00	
Straddle Packer	0.00			4277.00	
Stubb	1.00			4278.00	
Perforations	10.00			4288.00	
Change Over Sub	1.00			4289.00	
Recorder	0.00	9120	Below	4289.00	
Drill Pipe	127.00			4416.00	
Change Over Sub	1.00			4417.00	
Perforations	2.00			4419.00	



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stewart Producers Inc

8-18s-24w Ness,KS

PO Box 546
MT Vernon IL 62864+0546

Peddie-Hoovler #1

Job Ticket: 65967

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.07.19 @ 17:47:00

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: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OSM 100%M	0.425

Total Length: 30.00 ft Total Volume: 0.425 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

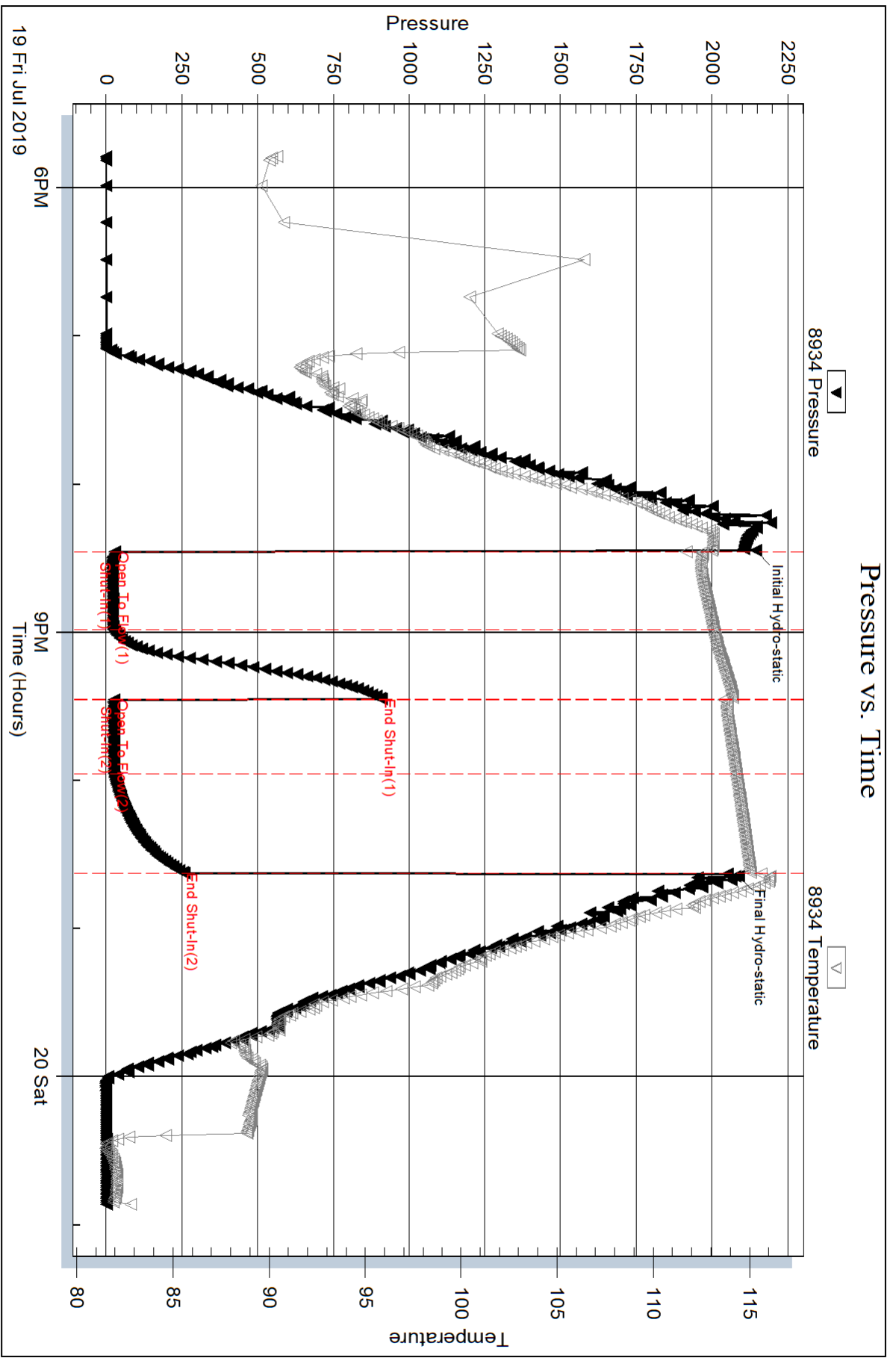
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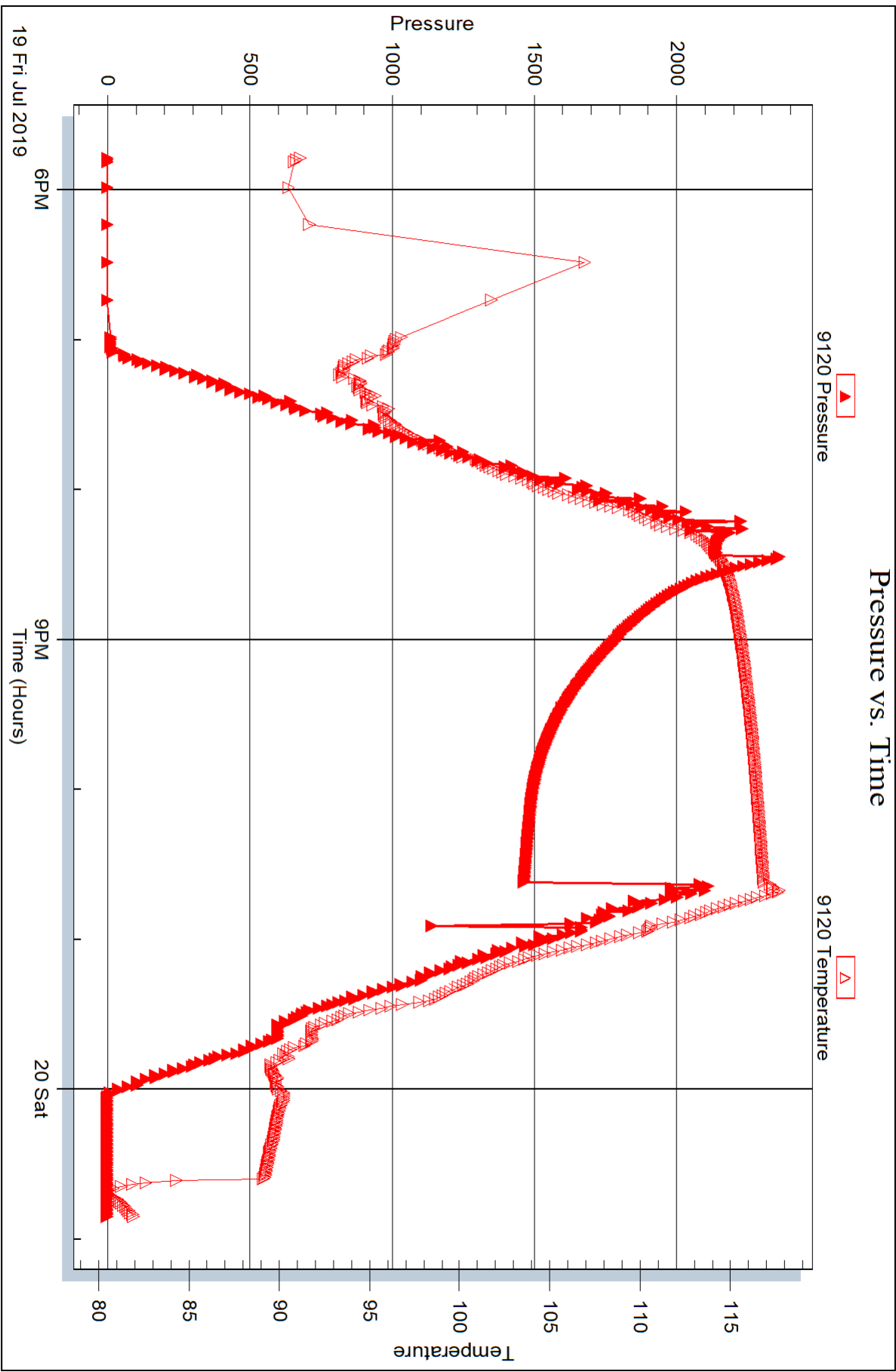
Inside

Stewart Producers Inc

Peddle-Hoover #1

DST Test Number: 2





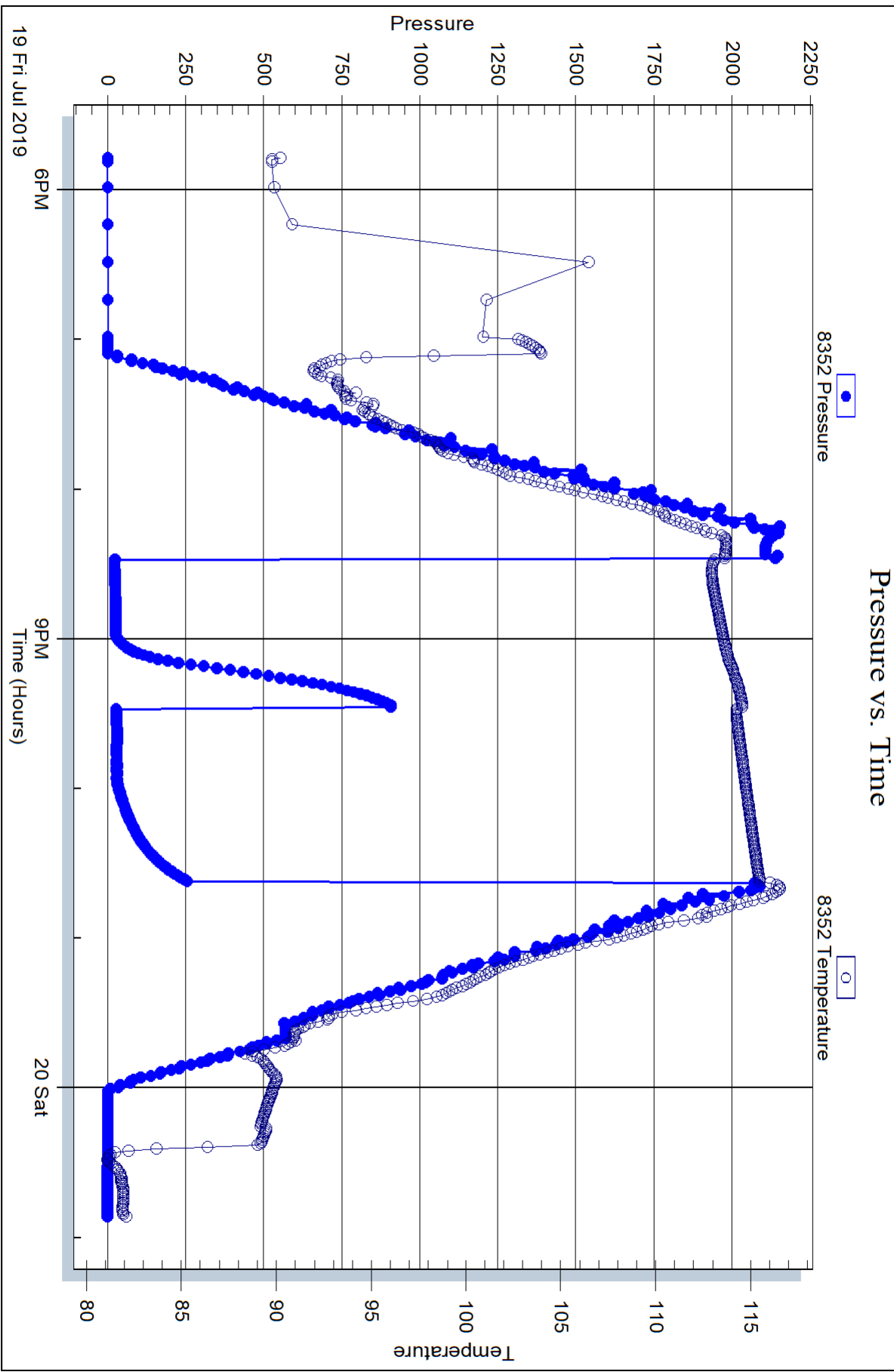
Serial #: 8352

Inside

Stewart Producers Inc

Peddie-Hoover #1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65966

NO.

Well Name & No. Peddie - Hoover #1 Test No. 1 Date 07/18/2019
 Company Stewart Producers Inc Elevation 2335 KB 2327' GL
 Address 301 N 27th St PO BOX 546 Mt Vernon IL 62864-0546
 Co. Rep / Geo. Andrew Stengel Rig Pickrell #10
 Location: Sec. 8 Twp 18S Rge. 24W Co. Wess State IL

Interval Tested 4278' - 4356' Zone Tested Mississippi
 Anchor Length 78' Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 4273' Drill Collars Run - Vis 54
 Bottom Packer Depth 4278' Wt. Pipe Run - WL 7.2
 Total Depth 4356' Chlorides 3200 ppm System LCM 1#

Blow Description 77- Weak; Built to 3 1/2"
73- No Return
77- Weak; Built 1 1/4"
73- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>MLO</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
<u>30'</u>	<u>GO</u>	<u>30</u>	<u>70</u>		
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 50' BHT 120° Gravity 39° API RW - @ - F Chlorides - ppm

(A) Initial Hydrostatic <u>2205</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>18:05</u>
(B) First Initial Flow <u>60</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>19:20</u>
(C) First Final Flow <u>66</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>21:45</u>
(D) Initial Shut-In <u>513</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>00:45</u> <u>07/19/2019</u>
(E) Second Initial Flow <u>63</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>03:03</u>
(F) Second Final Flow <u>70</u>	<input checked="" type="checkbox"/> Mileage <u>14427</u> 114rt	Comments _____
(G) Final Shut-In <u>362</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2130</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>

Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1739</u>
	Sub Total <u>1739</u>	MP/DST Disc't _____

Approved By _____ Our Representative Jensen J. Paul Thanks!

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65967

NO.

Well Name & No. Peddie-Howler #1 Test No. 2 Date 07/19/2019
 Company Stewart Producers Inc Elevation 2335 KB 2327 GL
 Address 301 N 27th St PO Box 546 Mt Vernon 62864-0546
 Co. Rep / Geo. Andrew Stempel Rig Pickrell #10
 Location: Sec. 8 Twp 18A Rge. 24w Co. Neos State Mo

Interval Tested 4220' - 4277' Zone Tested 7d Scott
 Anchor Length 57' 145' tail Drill Pipe Run 4222' Mud Wt. 9.3
 Top Packer Depth 4220' Drill Collars Run - Vis 61
 Bottom Packer Depth 4277' Wt. Pipe Run - WL 7.6
 Total Depth 4428' Chlorides 3800 ppm System LCM 1#

Blow Description 17-20' Wk; Built to 1/2"
SD: No Return
17- No Blow
SD: No Return

Rec	Feet of	%gas	%oil	%water	%mud
30'	OSM			100	

Rec Total 30' BHT 115° Gravity - API RW - @ - F Chlorides - ppm

(A) Initial Hydrostatic <u>8145</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>16:35</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:47</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:25</u>
(D) Initial Shut-In <u>908</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>22:25</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>00:50 07/20/2019</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage <u>14427</u> 114	Comments
(G) Final Shut-In <u>257</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2088</u>	<input checked="" type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool <u>350</u>

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1739 MP/DST Disc't

Approved By _____ Our Representative Spencer J. Stalder
 TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-0058