

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) (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	Joe Gerstner Oil, LLC
Well Name	PATRICIA MISHLER #2-27
Doc ID	1495750

All Electric Logs Run

DIL
CNDL
ML
SL

Form	ACO1 - Well Completion
Operator	Joe Gerstner Oil, LLC
Well Name	PATRICIA MISHLER #2-27
Doc ID	1495750

Tops

Name	Top	Datum
Anhydrite	1732	+764
Heebner	3774	-1278
Lansing	3817	-1321
BKC	4114	-1618
Marmaton	4150	-1654
Pawnee	4246	-1750
Ft. Scott	4319	-1823
Cherokee Shale	4343	-1847
Mississippian	4428	-1932



TICKET 032405

CHARGE TO: Joe Gester Oil
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS:
 1. Ness City, KS WELL/PROJECT NO. 2-27 LEASE Patricia Mable Ness COUNTY/PARISH Ness STATE KS CITY Ness City DATE 9/16/19 OWNER
 2. TICKET TYPE SERVICE CONTRACTOR W/W RIG NAME/NO.
 3. WELL TYPE 01 WELL CATEGORY Development JOB PURPOSE Surface Pipe SHIPPED VIA GT DELIVERED TO Location WELL PERMIT NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS WELL LOCATION Ness City 10-10-7 1/2 N

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT DF							
575				MILEAGE Trk #113	30	mi	1	job	5.00	1.50
576S				Pump Change - Surface	1	job	1	job	905.00	905.00
325				Standard CMT	150	sk	1	sk	13.92	2088.00
278				Calcium Chloride	7	sk	1	sk	40.00	280.00
279				Benboite Gdl	3	sk	1	sk	30.00	90.00
290				D-Air	2	gal	1	gal	43.00	86.00
581				CMT Service Charge	1	sk	1	sk	1.85	1.85
582				Minimum Damage Charge	1	eq	1	eq	250.00	250.00
REMIT PAYMENT TO:					PAGE TOTAL		TOTAL			

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

DATE SIGNED 9/16/19 TIME SIGNED 10:00 A.M. P.M.

SWIFT OPERATOR Jason Fuchs APPROVAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

TOTAL 4992.64

Thank You!

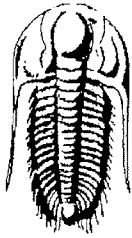
JOB LOG

SWIFT Services, Inc.

DATE 9/16/19 PAGE NO. 1

CUSTOMER Joe Gerstner Oil WELL NO. 2-27 LEASE Patricia Mishler JOB TYPE Surface Ppr. TICKET NO. 032405

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2100							On Location 8 5/8" 2316/17
								RTD: 220
	2145							Start 8 5/8 2316/17 Casing in well
	2230							Break Circulation
	2235	3 1/2	5			100		Pump 5bbl H2O Spacer
	2240	3 1/2	36			150		Mix 150 sks of STD 2 1/2 Gel 3/4 CC @ 14.7ppg
	2255	3 1/2	0			100		Start Displacement
		3 1/2	10			200		Circulate CMT to Surface * 15 sks to Pit *
	2300	0	13 1/2			200		Kickout Pump * Shut in *
								Release Pressure * Valve Hold *
								Wash up Trk #112
								Job Complete
								150 sks of Standard 2 1/2 gel 3/4 CC CMT used
								Thanks,
								Heather Preston Kirby



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Joe Gerstner Oil LLC

27- 17S.- 25W. Ness, KS

P.O. Box 509
Ness City, KS 67560

PatriciaMishler 2-27

Job Ticket: 65558

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.09.22 @ 16:35:00

GENERAL INFORMATION:

Formation: **Mississipian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:28:30

Time Test Ended: 22:44:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: **4428.00 ft (KB) To 4446.00 ft (KB) (TVD)**

Reference Elevations: 2496.00 ft (KB)

Total Depth: 4446.00 ft (KB) (TVD)

2491.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8734** Outside

Press@RunDepth: 43.51 psig @ 4429.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.22 End Date: 2019.09.22

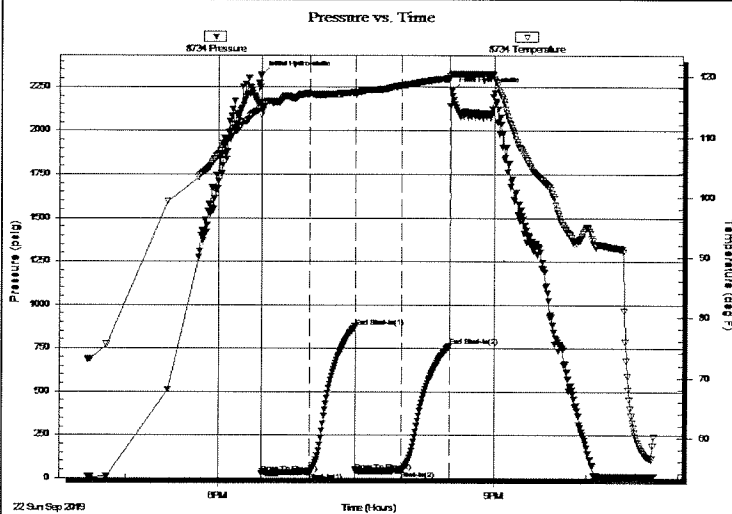
Last Calib.: 2019.09.22

Start Time: 16:35:01 End Time: 22:44:10

Time On Btm: 2019.09.22 @ 18:28:20

Time Off Btm: 2019.09.22 @ 20:32:00

TEST COMMENT: 30-IF-S.blow built to 1 1/2"
30-ISI-No blow back
30-FF-S.blow @ 2 mins built to 1/2"
30-FSI-No blow back



PRESSURE SUMMARY

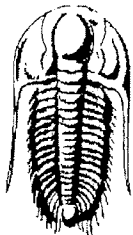
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2318.78	114.98	Initial Hydro-static
1	28.30	113.57	Open To Flow (1)
32	36.18	117.11	Shut-In(1)
61	873.33	117.30	End Shut-In(1)
62	42.09	117.00	Open To Flow (2)
92	43.51	118.49	Shut-In(2)
123	765.14	119.64	End Shut-In(2)
124	2223.76	120.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GWCMO 10%G,20%W,30%M,40%O	0.25
10.00	CGO 8%G, 92%O	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Joe Gerstner Oil LLC

27- 17S.- 25W. Ness, KS

P.O. Box 509
Ness City, KS 67560

PatriciaMishler 2-27

Job Ticket: 65558 DST#: 1

ATTN: Andrew Stenzel

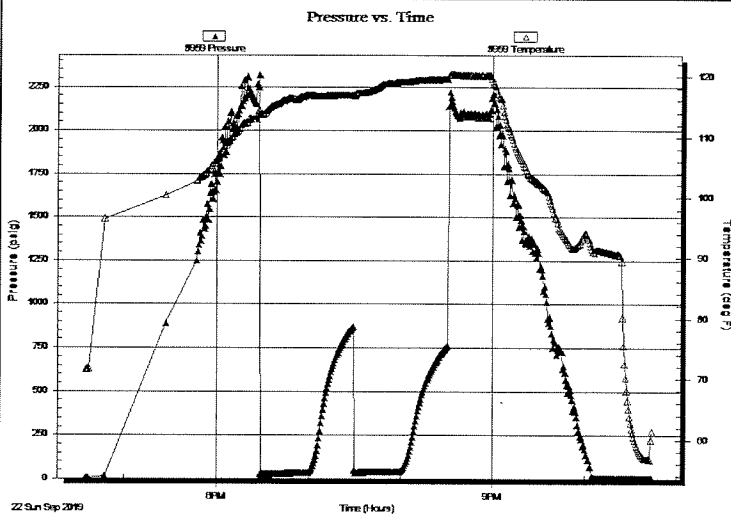
Test Start: 2019.09.22 @ 16:35:00

GENERAL INFORMATION:

Formation: **Mississipian**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:28:30 Tester: Martine Salinas
 Time Test Ended: 22:44:09 Unit No: 82
Interval: 4428.00 ft (KB) To 4446.00 ft (KB) (TVD) Reference Elevations: 2496.00 ft (KB)
 Total Depth: 4446.00 ft (KB) (TVD) 2491.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8959 Inside
 Press@RunDepth: psig @ 4429.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.09.22 End Date: 2019.09.22 Last Calib.: 2019.09.22
 Start Time: 16:35:01 End Time: 22:44:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-S.blow built to 1 1/2"
 30-ISI-No blow back
 30-FF-S.blow @ 2 mins built to 1/2"
 30-FSI-No blow back



PRESSURE SUMMARY

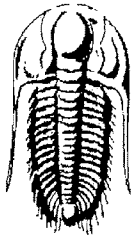
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GWCMO 10%G,20%W,30%M,40%O	0.25
10.00	CGO 8%G, 92%O	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Joe Gerstner Oil LLC

27- 17S.- 25W. Ness, KS

P.O. Box 509
Ness City, KS 67560

Patricia Mishler 2-27

Job Ticket: 65558 DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.09.22 @ 16:35:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 13000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

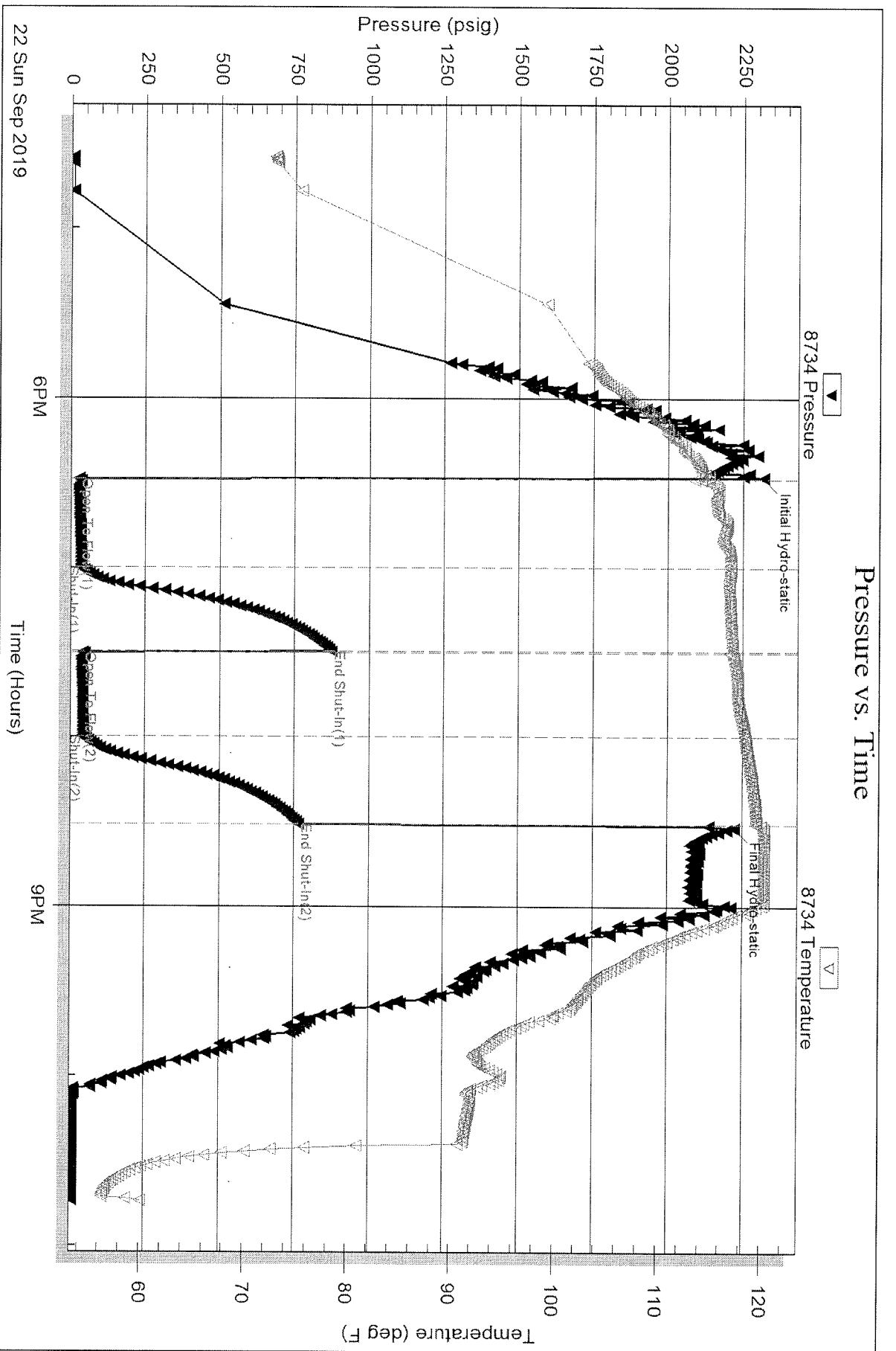
Length ft	Description	Volume bbl
50.00	GWCMO 10%G,20%W,30%M,40%O	0.246
10.00	CGO 8%G, 92%O	0.049

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity of Oil = 37 @ 60 degs
RW= .571 @ 65 degs = 13,000PPM



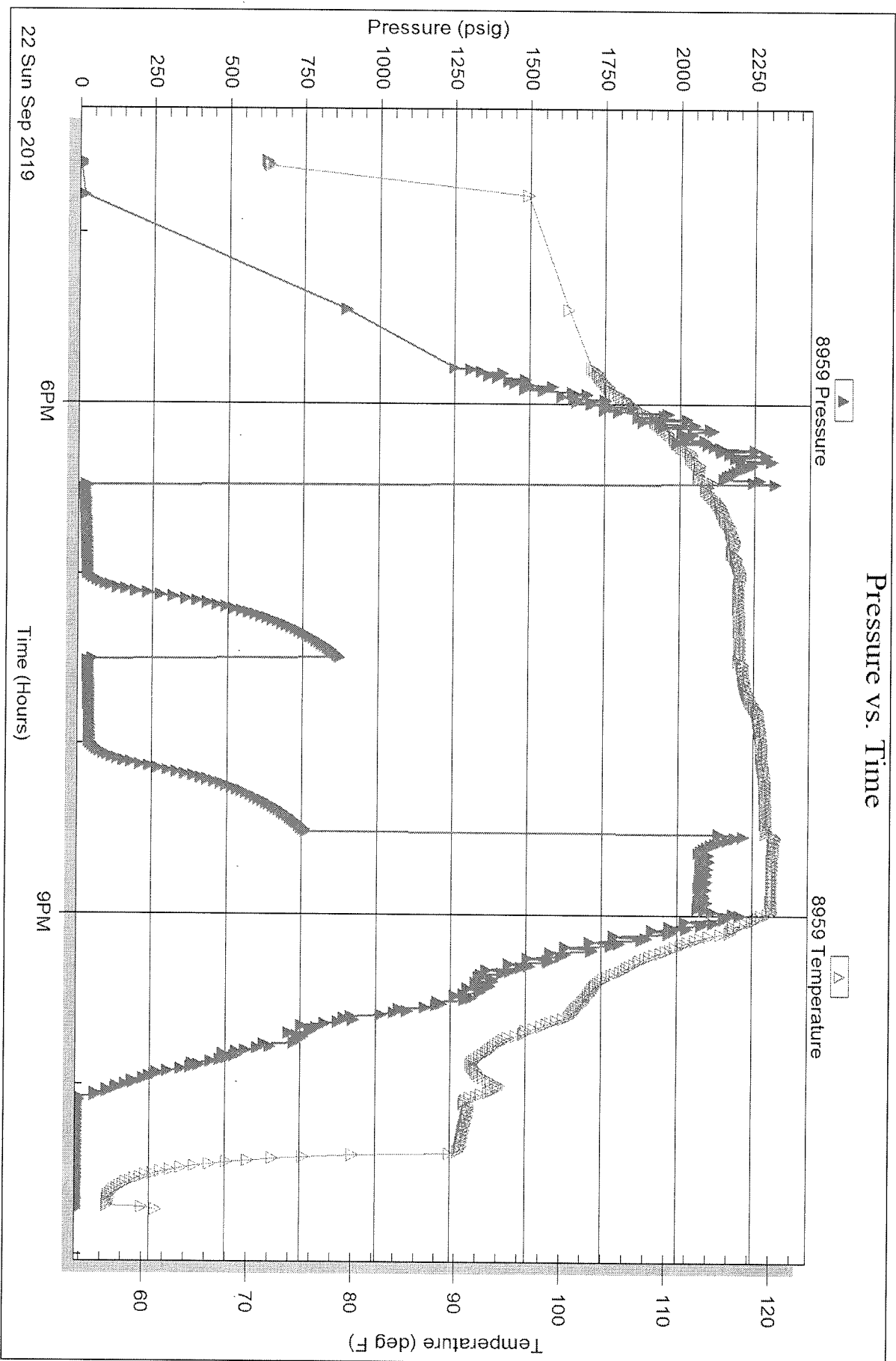
Serial #: 8959

Inside

Joe Gerstner Oil LLC

PatriciaMshler 2-27

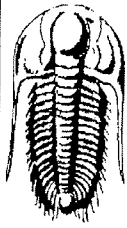
DST Test Number: 1



Triobrite Testing, Inc

Ref. No: 65558

Printed: 2019.09.23 @ 07:03:59



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Joe Gerstner Oil LLC

27- 17S.- 25W. Ness, KS

P.O. Box 509
Ness City, KS 67560

PatriciaMishler 2-27

Job Ticket: 65559

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.09.23 @ 05:30:00

GENERAL INFORMATION:

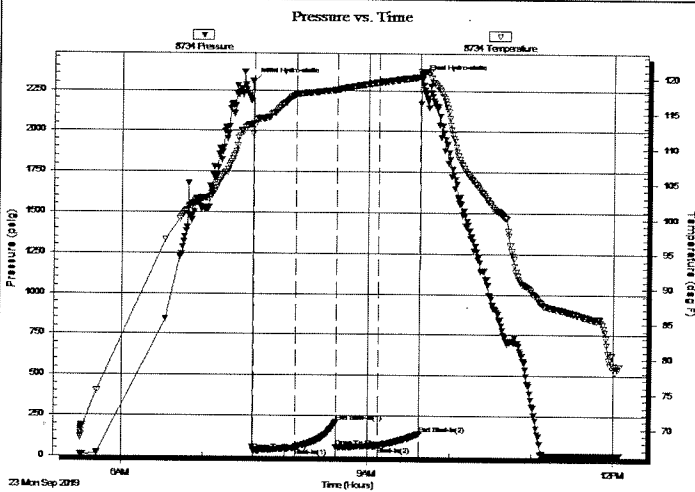
Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:36:50
 Time Test Ended: 12:04:30
 Interval: **4444.00 ft (KB) To 4453.00 ft (KB) (TVD)**
 Total Depth: 4453.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: 2496.00 ft (KB)
 2491.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8734

Outside

Press@RunDepth: 65.09 psig @ 4445.00 ft (KB)
 Start Date: 2019.09.23 End Date: 2019.09.23
 Start Time: 05:30:01 End Time: 12:04:30
 Capacity: 8000.00 psig
 Last Calib.: 2019.09.23
 Time On Btm: 2019.09.23 @ 07:35:50
 Time Off Btm: 2019.09.23 @ 09:39:00

TEST COMMENT: 30-IF-S.blow built to 4 1/2"
 30-ISI-No blow back
 30-FF-S.blow built to 1"
 30-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.18	113.46	Initial Hydro-static
1	33.93	113.24	Open To Flow (1)
32	53.36	117.61	Shut-In(1)
62	206.19	118.37	End Shut-In(1)
62	56.54	118.34	Open To Flow (2)
92	65.09	119.46	Shut-In(2)
123	140.65	120.18	End Shut-In(2)
124	2320.51	120.61	Final Hydro-static

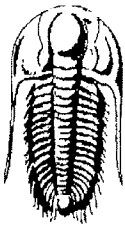
Recovery

Length (ft)	Description	Volume (bb'l)
40.00	GWOCM 10%G,15%W,25%O,50%M	0.20
30.00	CGO 5%G, 95%O	0.15

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Joe Gerstner Oil LLC

27- 17S.- 25W. Ness, KS

P.O. Box 509
Ness City, KS 67560

Patricia Mishler 2-27

Job Ticket: 65559

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.09.23 @ 05:30:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:36:50

Time Test Ended: 12:04:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: **4444.00 ft (KB) To 4453.00 ft (KB) (TVD)**

Total Depth: 4453.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2496.00 ft (KB)

2491.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8959

Inside

Press@RunDepth: psig @ 4445.00 ft (KB)

Start Date: 2019.09.23

End Date: 2019.09.23

Capacity: 8000.00 psig

Last Calib.: 2019.09.23

Start Time: 05:30:01

End Time: 12:04:30

Time On Btm:

Time Off Btm:

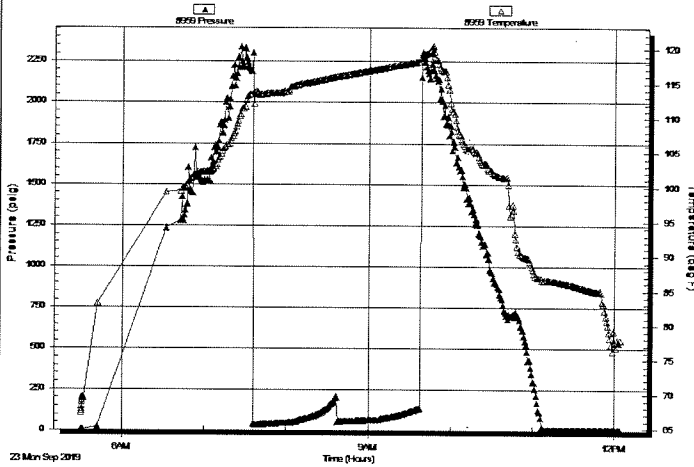
TEST COMMENT: 30-IF-S.blow built to 4 1/2"

30-ISI-No blow back

30-FF-S.blow built to 1"

30-FSI-No blow back

Pressure vs. Time



PRESSURE SUMMARY

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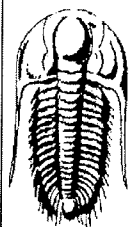
Recovery

Length (ft)	Description	Volume (bbl)
40.00	GWOCM 10%G,15%W,25%O,50%M	0.20
30.00	CGO 5%G, 95%O	0.15

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Joe Gerstner Oil LLC

27- 17S.- 25W. Ness, KS

P.O. Box 509
Ness City, KS 67560

PatriciaMishler 2-27

Job Ticket: 65559 **DST#: 2**

ATTN: Andrew Stenzel

Test Start: 2019.09.23 @ 05:30:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36.4 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 12000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GWOCM 10%G,15%W,25%O,50%M	0.197
30.00	CGO 5%G, 95%O	0.148

Total Length: 70.00 ft Total Volume: 0.345 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

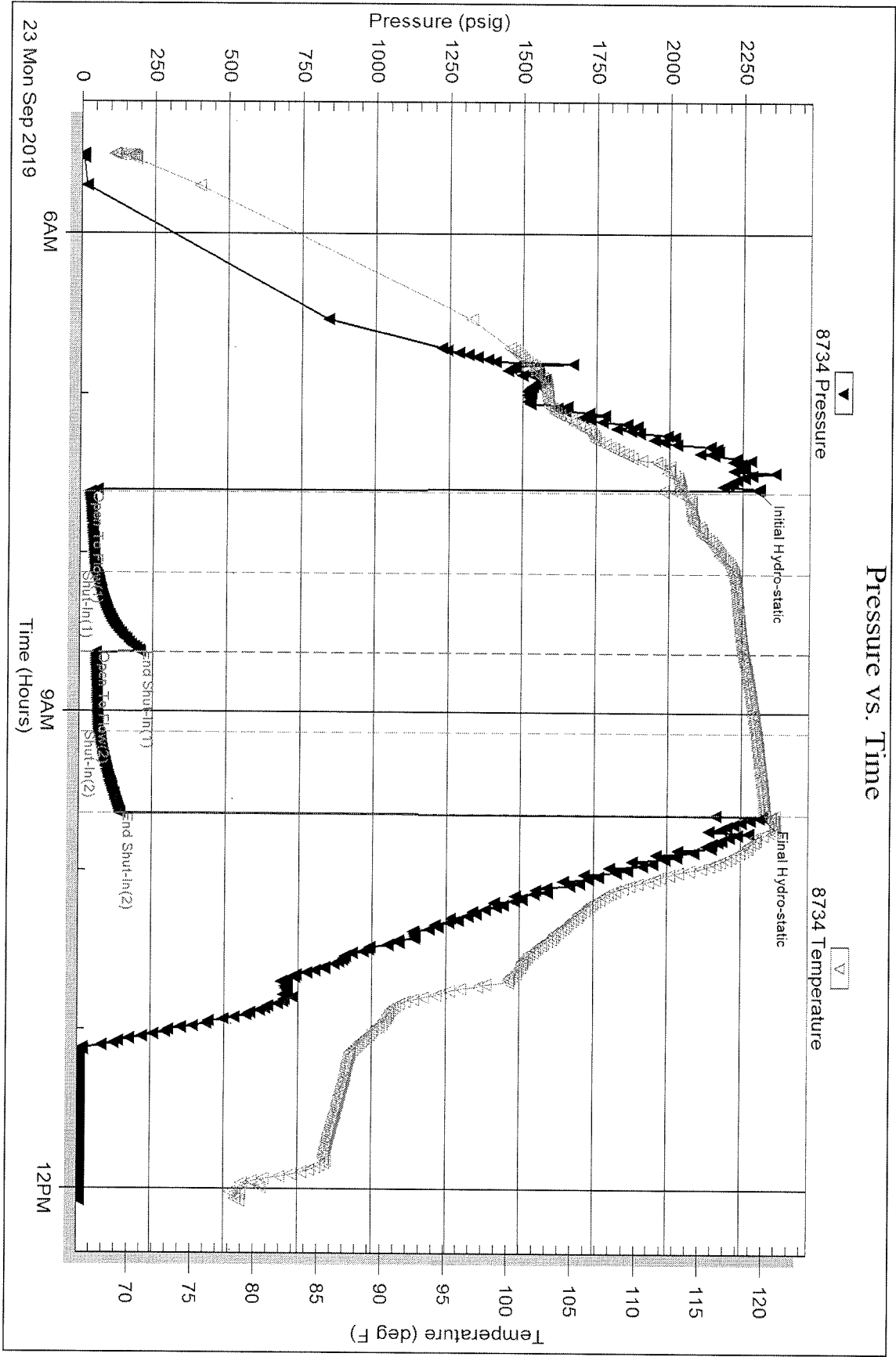
Recovery Comments: Gravity of oil = 38.6 @ 82 degs corrected to 36.4 @ 60 degs
RW = .505 @ 79 degs = 12,000PPM

Serial #: 8734

Outside Joe Gerstner Oil LLC

PatriciaMshier 2-27

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65559

Printed: 2019.09.23 @ 13:29:10

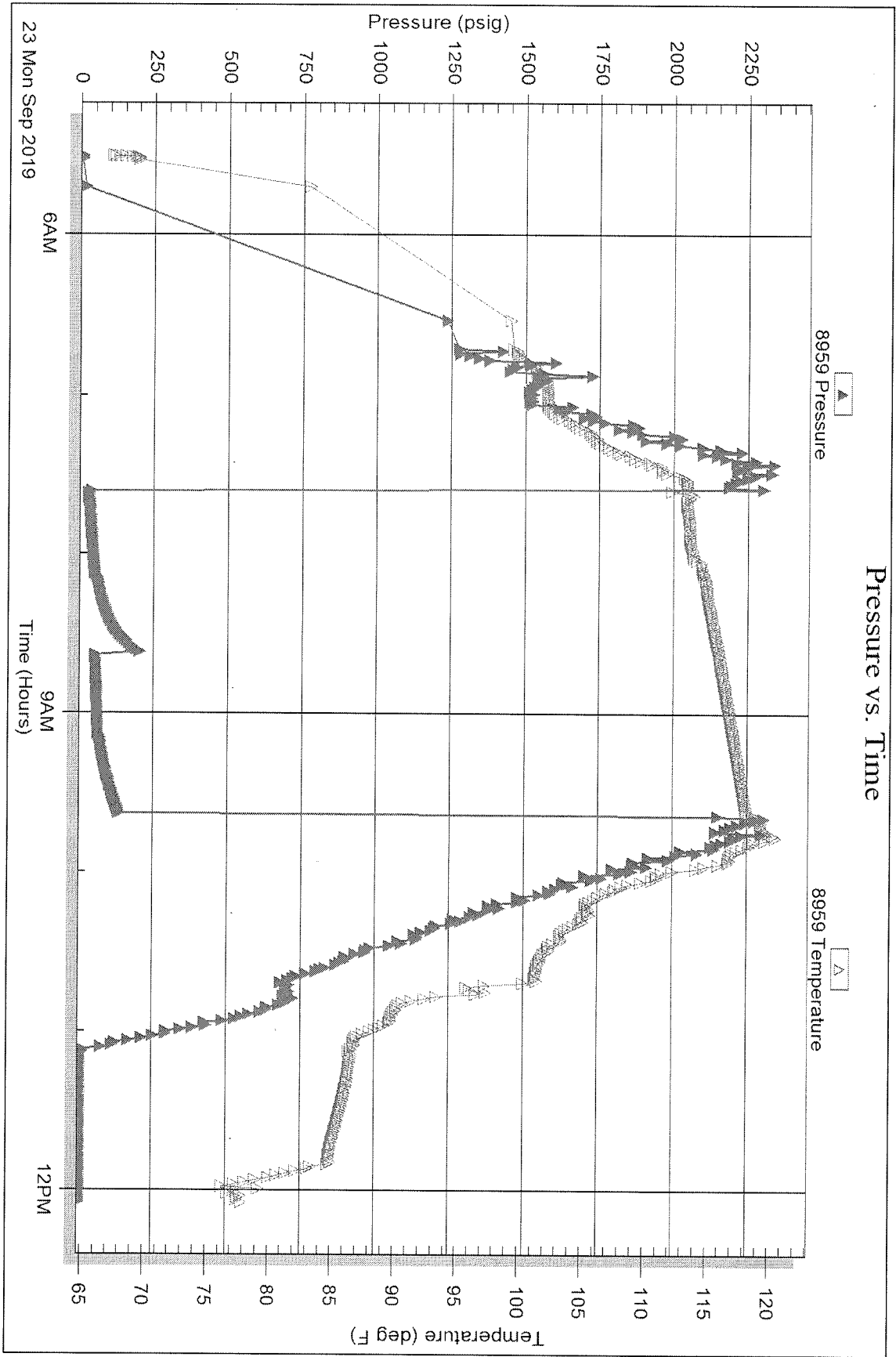
Serial #: 8959

Inside

Joe Gerstner Oil LLC

PatriciaMshier 2-27

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65559

Printed: 2019.09.23 @ 13:29:10



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: Patricia Mishler #2-27
Well Id: 15-135-26081-00-00
Location: SE-NW-SW-NE Sec. 27-17S-25W (Ness County)
License Number: 33605
Spud Date: 9/16/19
Surface Coordinates: 1666' FNL & 2231' FEL
Region: KANSAS
Drilling Completed: 9/24/19

Bottom Hole
Coordinates:
Ground Elevation (ft): 2491
Logged Interval (ft): 3400 To: TD
Formation: MISSISSIPPIAN
Type of Drilling Fluid: Mud-Co Chemical
K.B. Elevation (ft): 2496
Total Depth (ft): 4570

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

OPERATOR

Company: Joe Gerstner Oil, LLC
Address: PO Box 509
Ness City, KS 67560

GEOLOGIST

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

Drilling Report

DAILY DRILLING REPORT:

9/16/19 MIRU, ran surface casing
9/17/19 Tripping in hole with bit @ 220'
9/18/19 Drilling @ 1725'
9/19/19 Drilling @ 2773'
9/20/19 Drilling @ 3440'
9/21/19 Drilling @ 4042'
9/22/19 Running Short Trip @ 4377', DST #1
9/23/19 DST #2
9/24/19 Ran electric logs, plugged & abandoned

Services

RIG: Murfin Drilling, DBA WW Drilling, Rig #102

MUD: MUDCO

LOGS: Gemini Wireline; CNDL, PE, DIL, ML, SL

Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing @ 220'

PRODUCTION Casing: None

Formation Tops

Sample Tops		LogTops	
Anhy.	1736 (+760)	Anhy.	1732 (+764)
Base Anhy.	1757 (+739)	Base Anhy.	1764 (+732)
Heebner	3775 (-1279)	Heebner	3774 (-1278)
Lansing	3823 (-1327)	Lansing	3817 (-1321)
BKC	4116 (-1620)	BKC	4114 (-1618)
Marmaton	4149 (-1653)	Marmaton	4150 (-1654)
Pawnee	4247 (-1751)	Pawnee	4246 (-1750)
Ft. Scott	4319 (-1823)	Ft. Scott	4319 (-1823)
Cher. Sh.	4344 (-1848)	Cher. Sh.	4343 (-1847)
Miss.	4426 (-1930)	Miss.	4428 (-1932)
RTD	4570 (-2074)	LTD	4569 (-2073)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Joe Gerstner Oil LLC

Patricia Mishler #2-27

P.O. Box 509
Ness City, KS 67560

27-17S-25W Ness,KS

Job Ticket: 65558 **DST#: 1**

ATTN: Andrew Stenzel

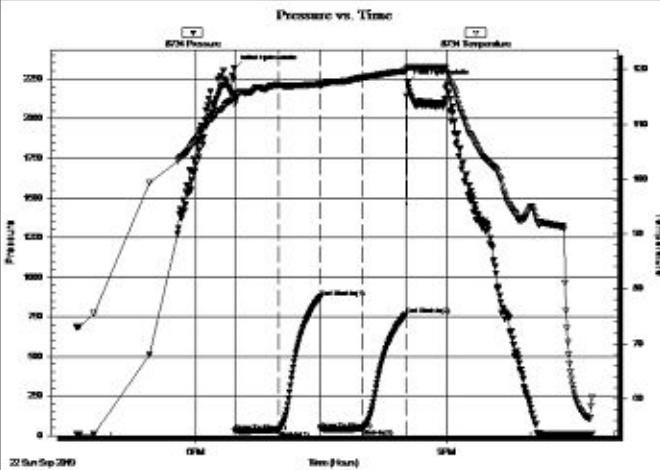
Test Start: 2019.09.22 @ 16:35:00

GENERAL INFORMATION:

Formation: **Mississipian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:28:30
 Time Test Ended: 22:44:09
 Interval: **4428.00 ft (KB) To 4446.00 ft (KB) (TVD)**
 Total Depth: 4446.00 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: 2496.00 ft (KB)
 2491.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8734 Outside
 Press@RunDepth: 43.51 psig @ 4429.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.09.22 End Date: 2019.09.22 Last Calib.: 2019.09.22
 Start Time: 16:35:01 End Time: 22:44:10 Time On Btm: 2019.09.22 @ 18:28:20
 Time Off Btm: 2019.09.22 @ 20:32:00

TEST COMMENT: 30-IF-Surface blow built to 1 1/2"
 30-ISI-No blow back
 30-FF-Surface blow @ 2 mins built to 1/2"
 30-FSI-No blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2318.78	114.98	Initial Hydro-static
1	28.30	113.57	Open To Flow (1)
32	36.18	117.11	Shut-In(1)
61	873.33	117.30	End Shut-In(1)
62	42.09	117.00	Open To Flow (2)
92	43.51	118.49	Shut-In(2)
123	765.14	119.64	End Shut-In(2)
124	2223.76	120.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GWCMO 10%G,20%W,30%M,40%O	0.25
10.00	CGO 8%G, 92%O	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Joe Gerstner Oil LLC

Patricia Mishler #2-27

P.O. Box 509
Ness City, KS 67560

27-17S-25W Ness,KS

Job Ticket: 65559 **DST#: 2**

ATTN: Andrew Stenzel

Test Start: 2019.09.23 @ 05:30:00

GENERAL INFORMATION:

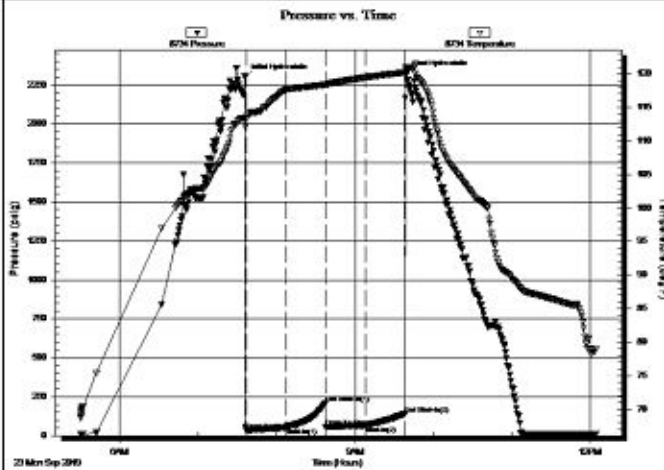
Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:36:50
 Time Test Ended: 12:04:30
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82
 Interval: **4444.00 ft (KB) To 4453.00 ft (KB) (TVD)**
 Total Depth: 4453.00 ft (KB) (TVD)
 Reference Elevations: 2496.00 ft (KB)
 2491.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8734

Outside

Press@RunDepth: 65.09 psig @ 4445.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2019.09.23 End Date: 2019.09.23 Last Calib.: 2019.09.23
 Start Time: 05:30:01 End Time: 12:04:30 Time On Btmr: 2019.09.23 @ 07:35:50
 Time Off Btmr: 2019.09.23 @ 09:39:00

TEST COMMENT: 30-IF-Surface blow built to 4 1/2"
 30-ISI-No blow back
 30-FF-Surface blow built to 1"
 30-FSI-No blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.18	113.46	Initial Hydro-static
1	33.93	113.24	Open To Flow (1)
32	53.36	117.61	Shut-In(1)
62	206.19	118.37	End Shut-In(1)
62	56.54	118.34	Open To Flow (2)
92	65.09	119.46	Shut-In(2)
123	140.65	120.18	End Shut-In(2)
124	2320.51	120.61	Final Hydro-static

Recovery


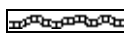
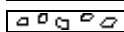
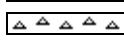
Length (ft)	Description	Volume (bbl)
40.00	GWOCM 10%G, 15%W, 25%O, 50%M	0.20
30.00	CGO 5%G, 95%O	0.15

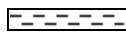



* Recovery from multiple tests





Gas Rates

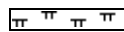

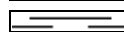
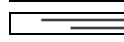
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

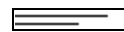



ROCK TYPES

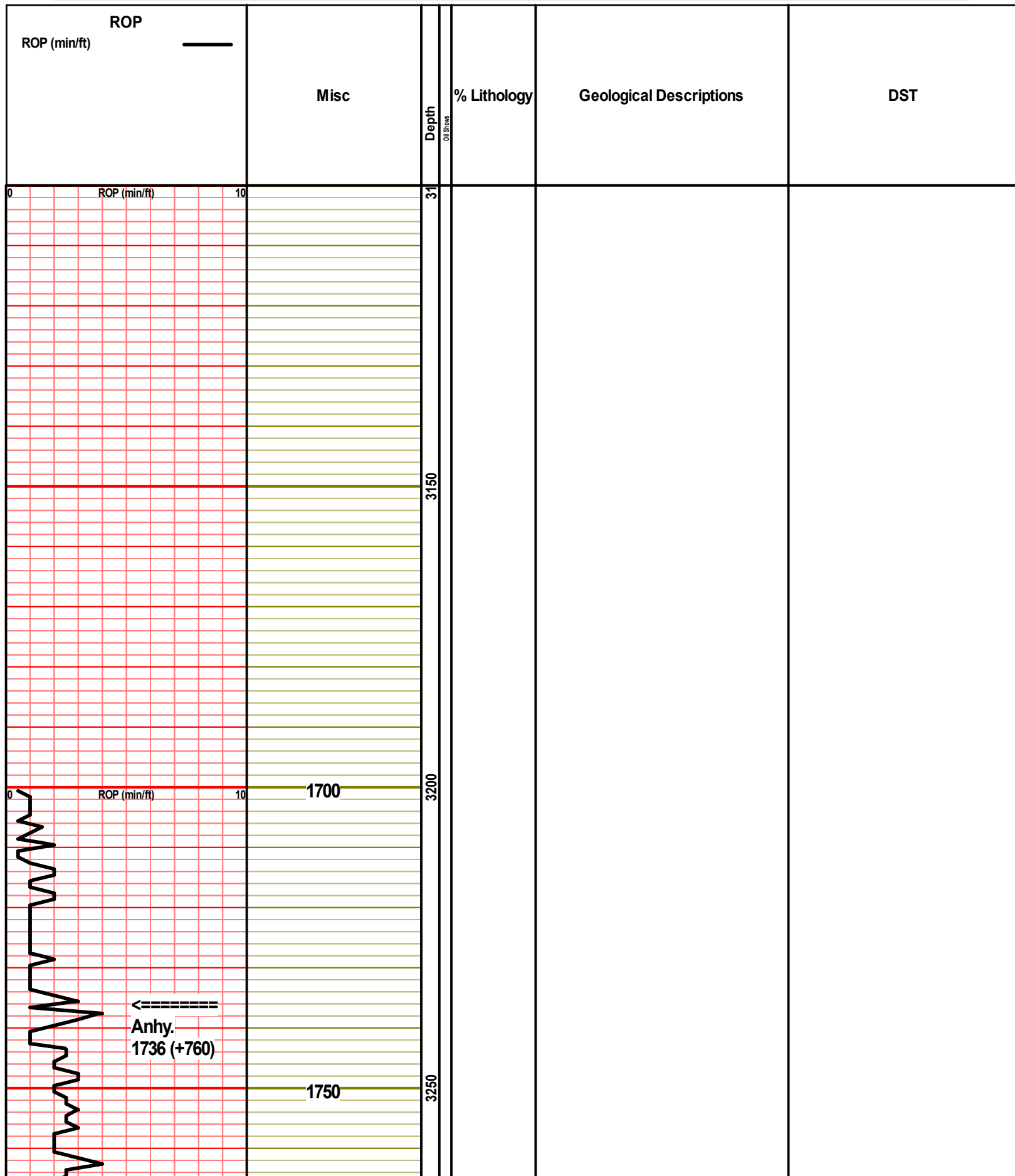
-  Anhy
-  Bent
-  Brec
-  Cht

-  Clyst
-  Carb shale
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta

-  Mrlst
-  Salt
-  Shale
-  Shcol

-  Shgy
-  Sltst
-  Ss
-  Till



←
Base Anhy.
1757 (+739)

1800

3300

Dev. Surveys:
220' 1 Deg
1515' 1 Deg
3025' 3/4 Deg
4446' 3/4 Deg
4570' 3/4 Deg

3350

0 ROP (min/ft) 10

3400

Sh., gy-lt gy, soft, Ls, fmxln, soft, chlky, foss, pr
foss por, ns, no odr

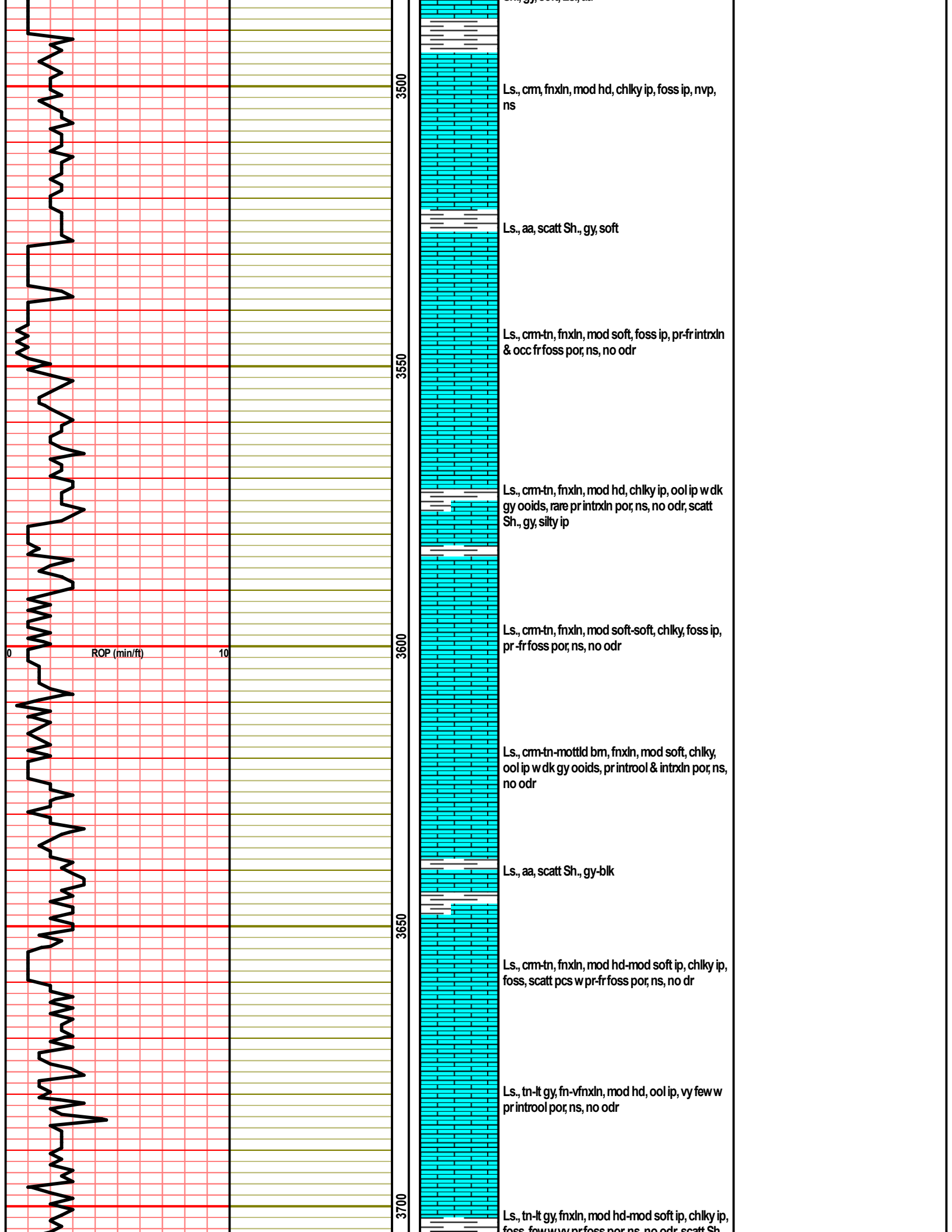
Sh., aa

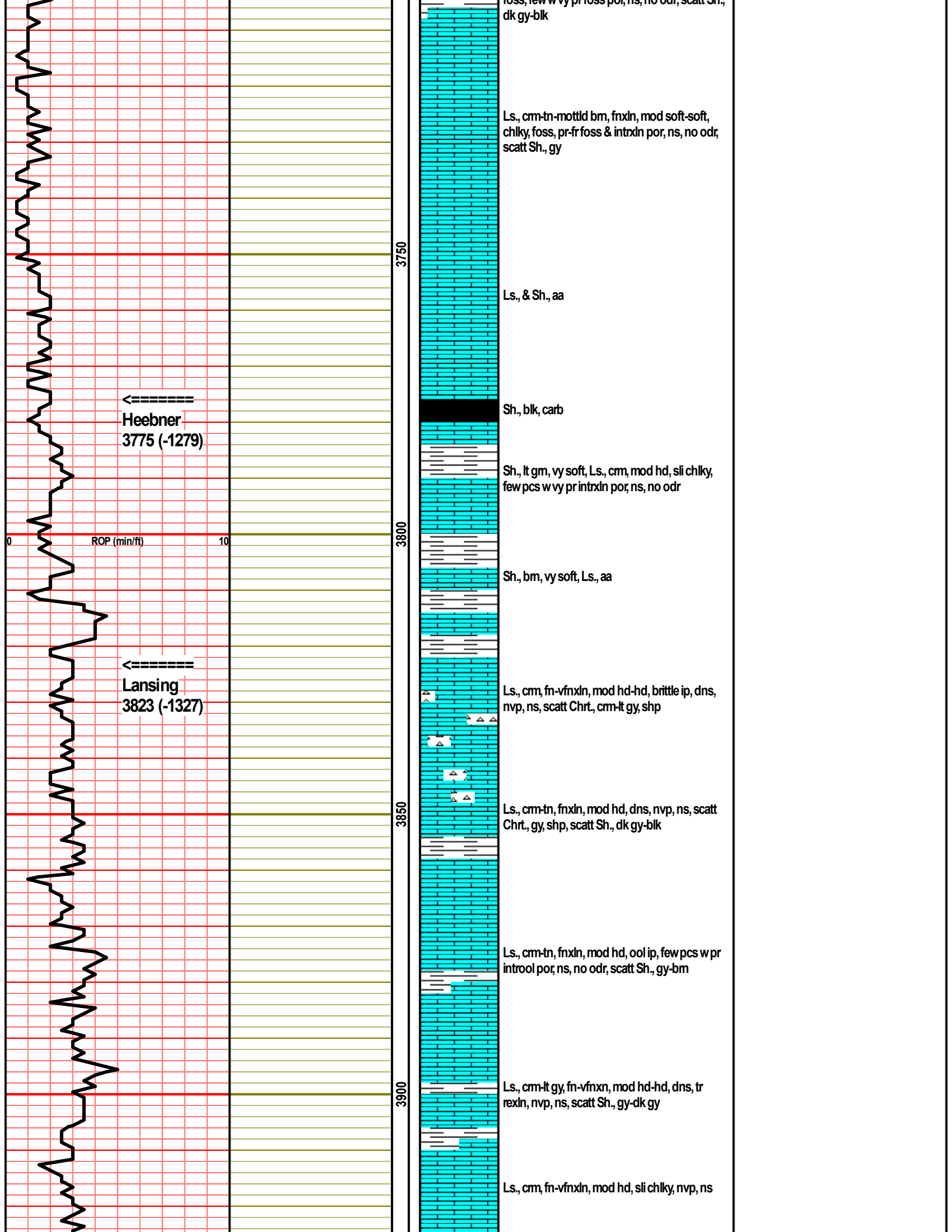
Mud @ 3454'
Wt. 8.75
Vis. 54
Filtrate 8.0
Chlor 3500
LCM 1#

3450

Ls., lt gy-gy, fmxln, mod hd, foss/ool ip, shly ip,
nvp, ns, abund Sh., gy

Sh., av soft, Ls., aa







3950
4000
4050
4100

Ls., cm-tn, fnxn, mod hd-mod soft, chiky ip, ool ip, pr-fr ooc por; ns, no odr

Ls., tn-lt gy, fnxn, mod hd, shly/silty ip, few pcs w pr intrxn por; ns, no odr, abund Sh., gy

Ls., tn-lt bm, fnxn, mod hd, foss, dns, nvp, ns, scatt Chrt., cm, foss

Ls., tn-lt gy, vfnxn, mod hd-hd, dns, nvp, ns

Ls., cm-tn, vfnxn, mod hd, brittle, sli chiky, nvp, ns, scatt Chrt., cm-lt gy, shp

Ls., cm, fnxn, mod hd, ool, fr ooc por, ns, no odr

Sh., blk, carb

Ls., cm-lt gy, vfnxn, mod hd-hd, brittle, dns, nvp, ns, scatt Chrt., tn-bm, sli weath

Ls., aa, incr Chrt., lt gy, shp

Sh., dk gy-blk

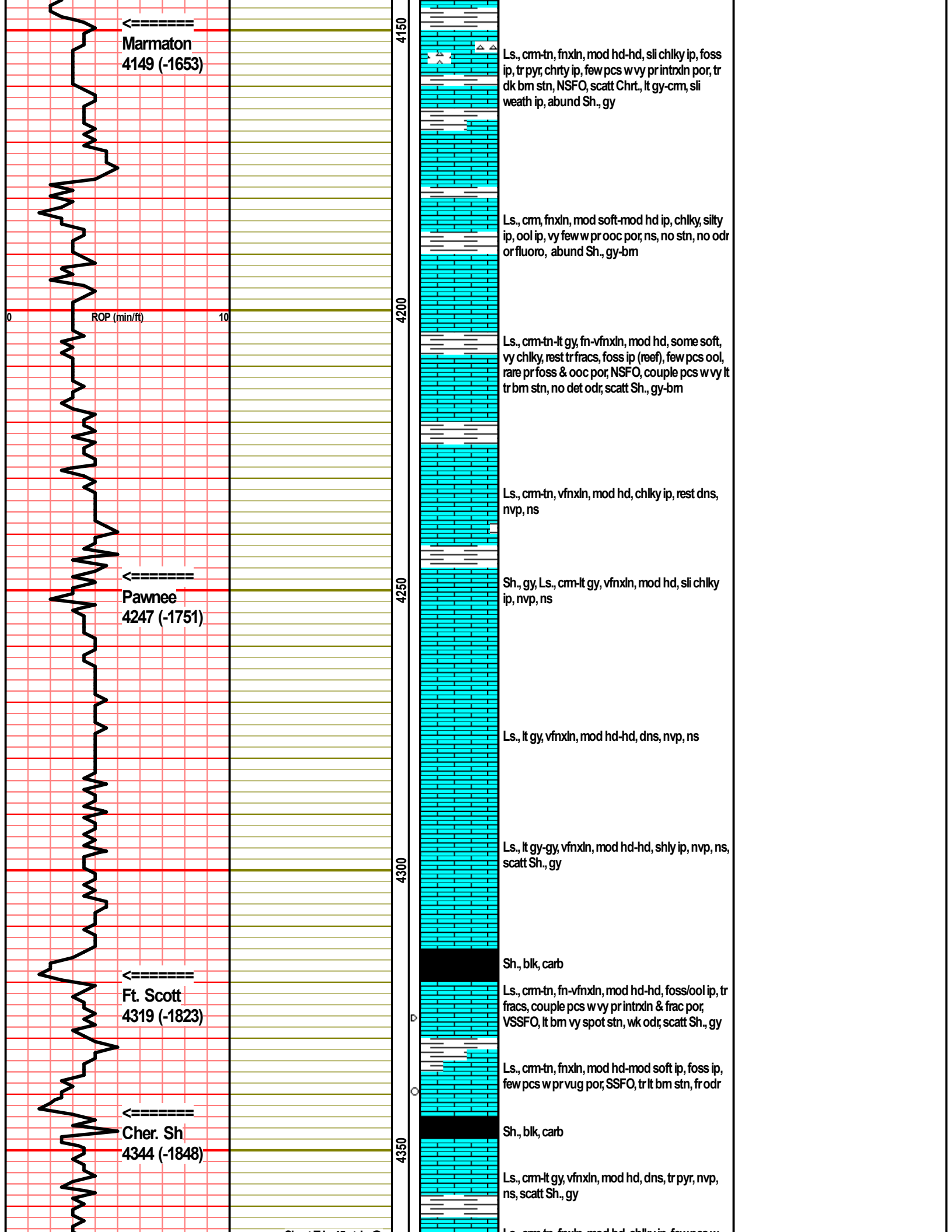
Ls., cm-tn, fnxn, mod soft, chrt ip, ool ip, pr introol por; ns, no odr, scatt Chrt., lt gy, shp

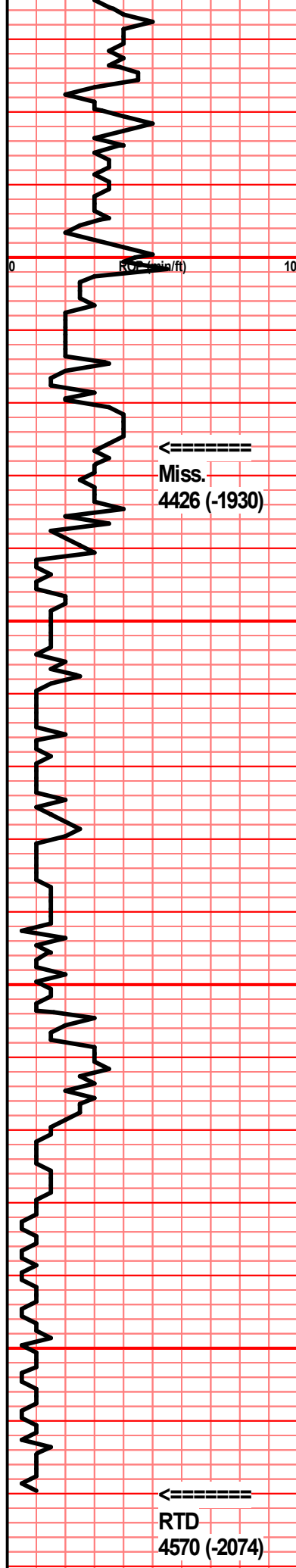
Sh., blk, carb

Ls., tn, fn-vfnxn, mod hd, sli chiky, ool ip, few pcs w pr introol por; ns, no odr, abund Sh., gy-lt gm, soft ip

←
BKC
4116 (-1620)

Mud @4104'
Wt. 9.0
Vis. 44
Filtrate 6.8
Chlor 3400
LCM 1#





Short Inp 45 stds @ 4376'

cfs 4376

Mud @ 4388'
 Wt. 9.2
 Vis. 58
 Filtrate 7.2
 Chlor 3500
 LCM 1#

Pipe Strap:
 1.23' Short

DST 1

DST 2

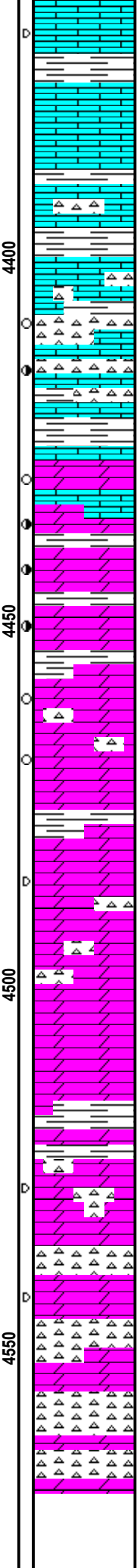
cfs 4446

cfs 4453

cfs 4464

Mud @ 4453'
 Wt. 9.3
 Vis. 53
 Filtrate 7.8
 Chlor 3700
 LCM 1#

RTD 4570 (-2074)



Ls., crm-tn, fn-vfnxn, mod hd, chlky ip, nvp, ns, abund Sh., gy-lt gy-brn, scatt Chrt., tn-lt gy, weath ip

Ls., aa, abund Chrt., crm-org, weath, pr-fr ppt & rare vug por, SSFO, blk spot-sub sat stn, wk odr, abund Sh., gy-brn

Chrt., aa, pr-rare fr ppt & rare pr vug por, FSFO, blk sub sat-sat stn ip, fr odr, scatt Ls., crm, fnxn, mod hd, sli chlky ip, nvp, ns, scatt Sh., gy-brn

Dol., tn-lt gy, fn-vfnxn, mod hd/firm, 40-50% dns, nvp, ns, rest w pr ppt, vug & intrxn por, SSFO, spot-sub sat stn, fr odr, scatt Ls., fnxn, mod hd, nvp, ns

4446 Dol., crm-tn, fnxn, mod hd-mod soft ip, fr vug & ppt por, few w gd vug por, FSFO, lt brn-brn sub sat stn, sli show gas, gd odr, scatt Sh., gy, 60 min sample Dol., aa, sli decr shows, fr odr scatt Sh., gy

4453 Dol., crm-lt gy, fnxn, rare medxn, mod soft/fri, 20% dns, nvp, rest w fr vug & pr-fr intrxn por, FSFO, lt brn spots-sub sat stn, gd odr, scatt Sh., gy

4464 Dol., crm-tn-lt gy, fnxn, mod hd-mod soft ip, ool ip, fr-rare gd vug por, 15-20% w SSFO, sub sat-spot stn, sli show gas, fr odr on brk, rest barren, scatt Chrt., opq/clr, weath, scatt Sh., gy

Dol., aa, 20-30% w shows aa, rest barren, wk cup odr, fr odr on brk

Sh., gy-brn, Dol., crm-tn-lt gy, fn-vfnxn, mod hd, chlky ip, pr intrxn & occ pr vug por, 10-20% w SSFO, tr dk brn stn, wk odr on brk

Dol., tn-lt gy, fn-vfnxn, mod hd, firm, pr-fr intrxn & vug por, few pcs w VSSFO, trb dk brn-blk stn, wk odr on brk, scatt Chrt., clr/opq white, weath/broken, ns

Dol., lt gy, vfnxn, hd, firm, nvp, ns, few pcs w pr intrxn por ns, no odr, scatt Ls., crm, vfnxn, mod hd, chlky, nvp, ns

Dol., lt gy-tn, fn-vfnxn, mod hd-hd, many dns, nvp, scatt pcs w pr-rare fr vug por, couple pcs w SSFO, brn spot stn, vy sli show gas, fr odr on brk, abund Sh., gy-brn, scatt Chrt., clr/opq white, weath

Chrt., wht, shp, Dol., crm, fnxn, mod hd, one pc w SSFO, tr brn stn, no det odr

Chrt & Dol., aa, ns no odr

DST #1 4428-4446
 (Mississippian)
 30-30-30-30
 IF: SB, built to 1 1/2"
 IS: No blow
 FF: SB at 2 min, built to 1/2"
 FS: No blow

Recovery:
 10' CGO (8%G, 92%O)
 50' GWCMO (10%G, 40%O, 20%W, 30%M)

60' TF

FP: 28-36; 42-44
 SIP: 873-765
 HP: 2319-2224

BHT: 120
 Gravity: 37
 Chlor: 13000

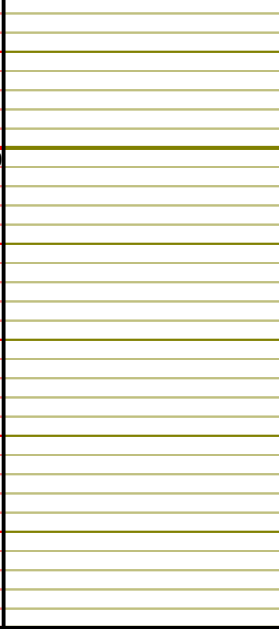
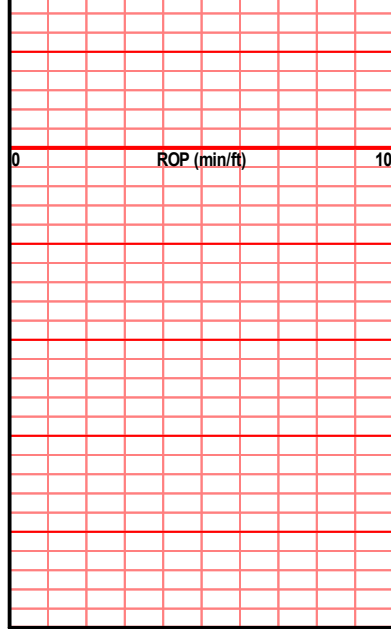
DST #2 4444-4453
 (Mississippian)
 30-30-30-30
 IF: SB, built to 4 1/2"
 IS: No blow
 FF: SB, built to 1"
 FS: No blow

Recovery:
 40' GWOCM (10%G, 25%O, 15%W, 50%M)
 30' CGO (5%G, 95%O)

70' TF

FP: 34-53; 57-65
 SIP: 206-141
 HP: 2300-2321

BHT: 121
 Gravity: 36
 Chlor: 12000



4600
50

