

Form	ACO1 - Well Completion
Operator	Cholla Production, LLC
Well Name	SCHLEGEL 1-4
Doc ID	1466771

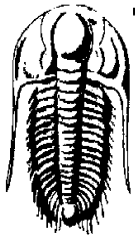
All Electric Logs Run

DIL
FDC/CNL
MICROLOG
SONIC

Form	ACO1 - Well Completion
Operator	Cholla Production, LLC
Well Name	SCHLEGEL 1-4
Doc ID	1466771

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	266	Common	150	3% cc,2% gel



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC

10390 Bradford Rd Suite 201
Littleton Co 80127

ATTN: Clayton Erickson

4-20s-25w Ness KS

Schlegel #1-4

Job Ticket: 65965

DST#: 4

Test Start: 2019.07.10 @ 08:25:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:48:00

Time Test Ended: 14:03:45

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 4420.00 ft (KB) To 4462.00 ft (KB) (TVD)

Reference Elevations: 2423.00 ft (KB)

Total Depth: 4520.00 ft (KB) (TVD)

2416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8934 Inside

Press@RunDepth: 23.55 psig @ 4424.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.10

End Date:

2019.07.10

Last Calib.: 2019.07.10

Start Time: 08:25:15

End Time:

14:03:45

Time On Btm: 2019.07.10 @ 09:47:45

Time Off Btm: 2019.07.10 @ 12:30:30

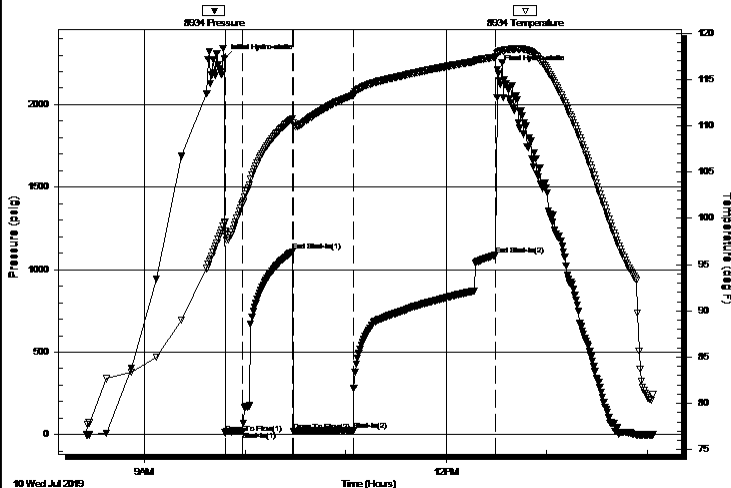
TEST COMMENT: 10-IF-Weak Surface

30-ISI-No Return

30-FF-No Blow

90-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2276.32	99.59	Initial Hydro-static
1	9.81	98.64	Open To Flow (1)
11	19.72	101.70	Shut-In (1)
41	1110.25	110.80	End Shut-In (1)
41	20.90	110.32	Open To Flow (2)
77	23.55	113.32	Shut-In (2)
162	1088.05	117.43	End Shut-In (2)
163	2212.31	117.89	Final Hydro-static

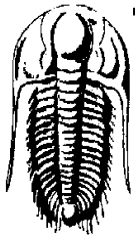
Recovery

Length (ft)	Description	Volume (bbl)
3.00	OSM 100%M	0.01

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC

10390 Bradford Rd Suite 201
Littleton Co 80127

ATTN: Clayton Erickson

4-20s-25w Ness KS

Schlegel #1-4

Job Ticket: 65965

DST#: 4

Test Start: 2019.07.10 @ 08:25:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:48:00

Time Test Ended: 14:03:45

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 4420.00 ft (KB) To 4462.00 ft (KB) (TVD)

Total Depth: 4520.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2423.00 ft (KB)

2416.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8352 Inside

Press@RunDepth: psig @ 4424.00 ft (KB)

Start Date: 2019.07.10

End Date:

2019.07.10

Start Time: 08:25:15

End Time:

14:04:00

Capacity: 8000.00 psig

Last Calib.:

2019.07.10

Time On Btm:

Time Off Btm:

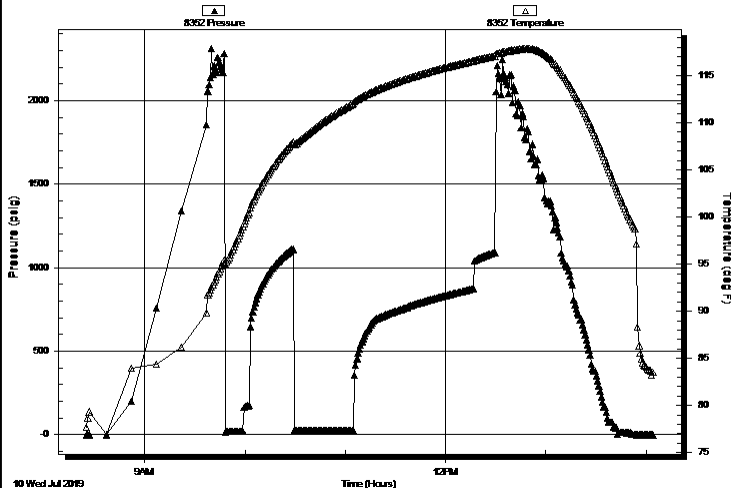
TEST COMMENT: 10-IF-Weak Surface

30-ISI-No Return

30-FF-No Blow

90-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	OSM 100%M	0.01

Gas Rates

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

* Recovery from multiple tests



Cholla Production LLC

ATTN: Clayton Erickson

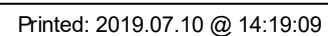
Schlegel #1-4

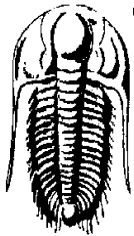
DST#: 4

Test Start: 2019.07.10 @ 08:25:00

KB to GR/CF: 7.00 ft

90-FSI-No Return





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

4-20s-25w Ness KS

10390 Bradford Rd Suite 201
Littleton Co 80127

Schlegel #1-4

Job Ticket: 65965

DST#: 4

ATTN: Clayton Erickson

Test Start: 2019.07.10 @ 08:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 11.19 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	OSM 100%M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1&1/2#LCM

Sampler=300mL Mud @39PSI

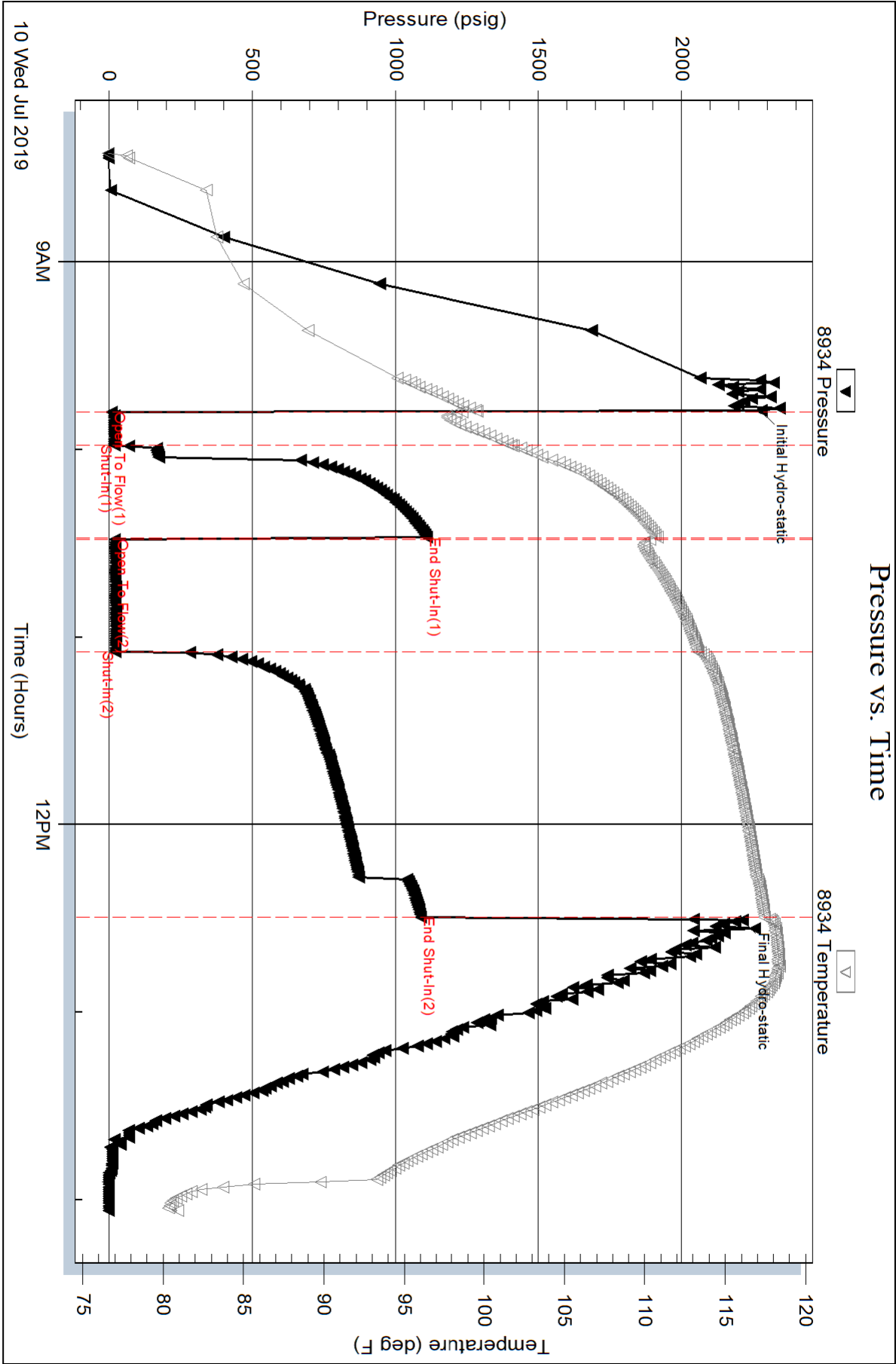
Serial #: 8934

Inside

Cholla Production LLC

Schlegel #1-4

DST Test Number: 4



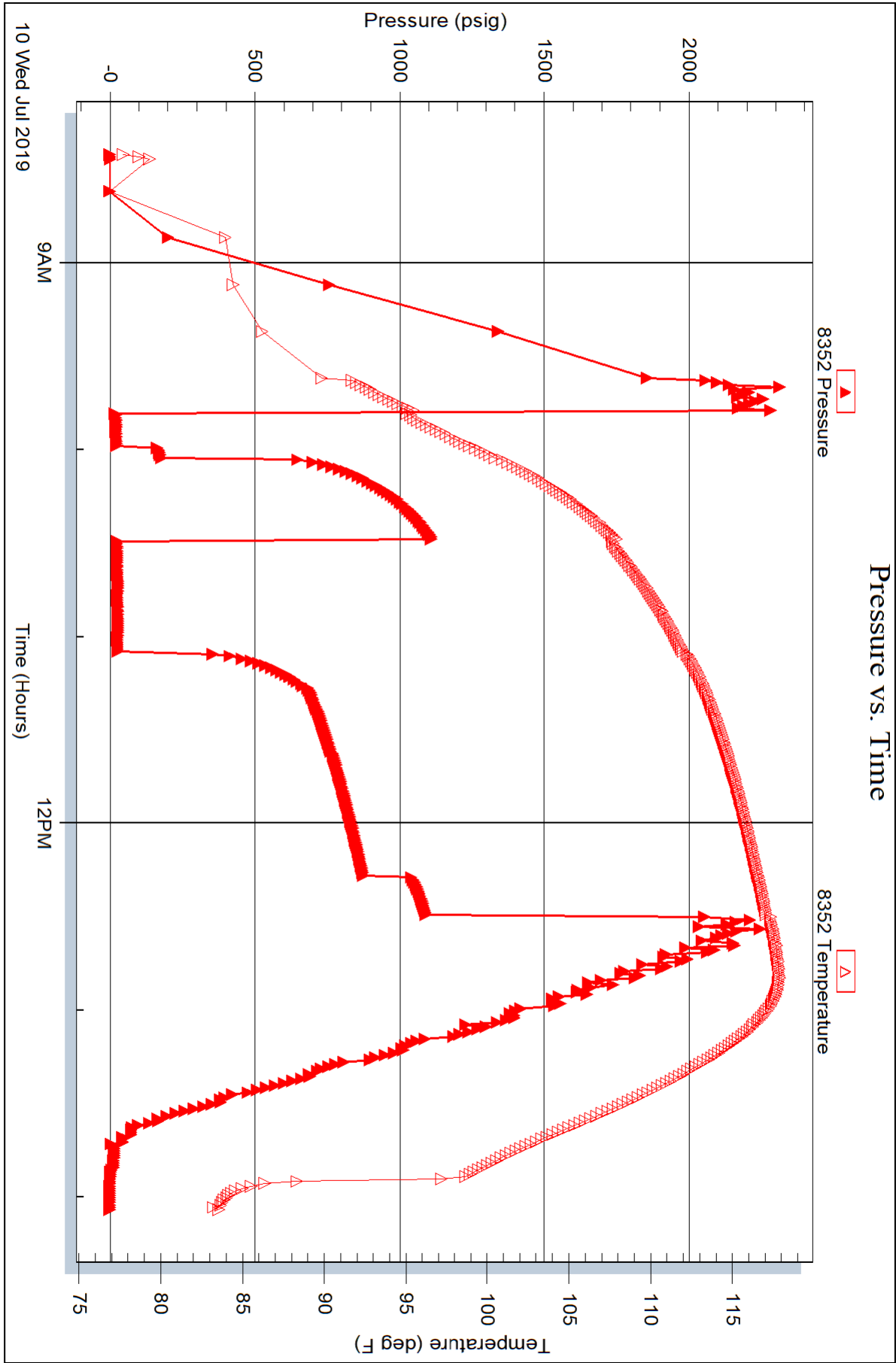
Serial #: 8352

Inside

Cholla Production LLC

Schlegel #1-4

DST Test Number: 4

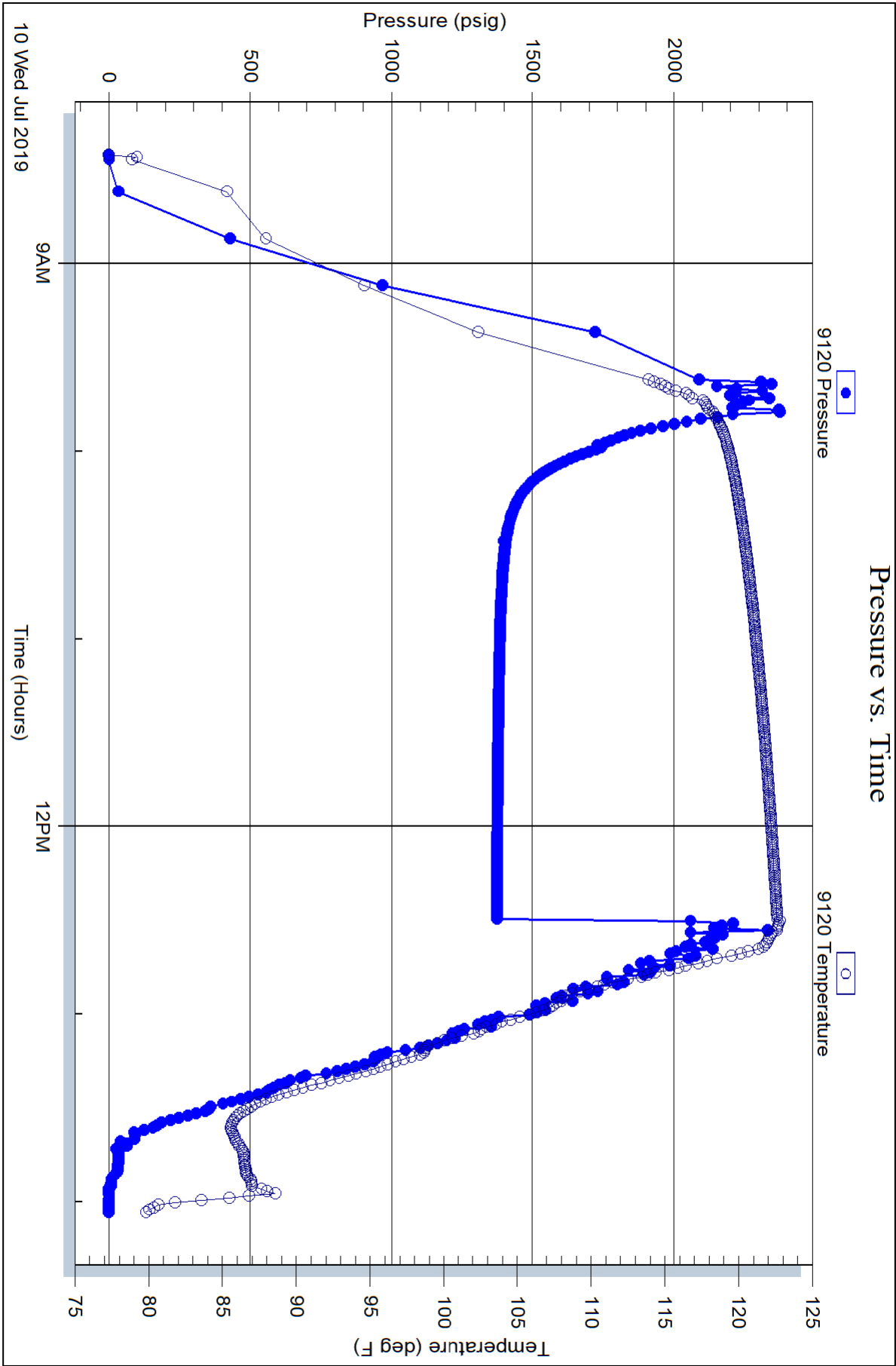


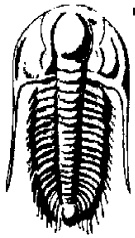
Serial #: 9120

Below (Stratton) Production LLC

Schlegel #1-4

DST Test Number: 4





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC

10390 Bradford Rd Suite 201
Littleton Co 80127

ATTN: Clayton Erickson

4-20s-25w Ness KS

Schlegel #1-4

Job Ticket: 65964

DST#: 3

Test Start: 2019.07.09 @ 02:12:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:21:30

Time Test Ended: 10:57:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 4455.00 ft (KB) To 4470.00 ft (KB) (TVD)

Total Depth: 4470.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2423.00 ft (KB)

2416.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8934 Inside

Press@RunDepth: 98.23 psig @ 4456.00 ft (KB)

Start Date: 2019.07.09

End Date:

2019.07.09

Start Time: 02:12:15

End Time:

10:57:30

Capacity: 8000.00 psig

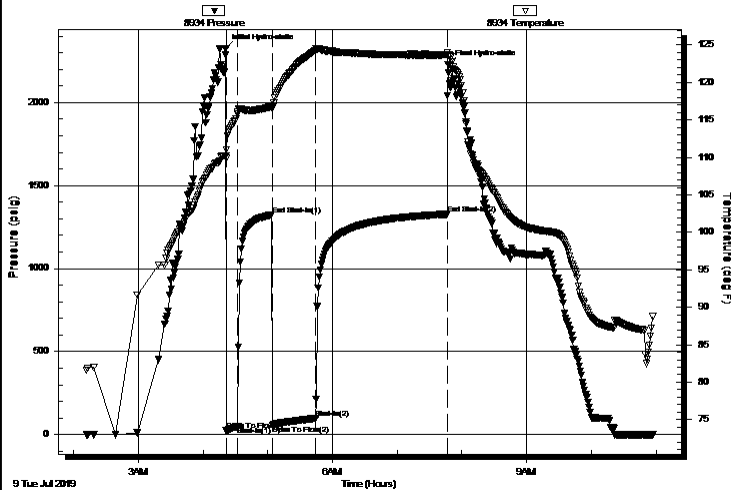
Last Calib.: 2019.07.09

Time On Btm: 2019.07.09 @ 04:21:15

Time Off Btm: 2019.07.09 @ 07:47:15

TEST COMMENT: 10-IF-Weak; Built to 3"
30-ISI-No Return
40-FF-Fair; Built to 6"
120-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2325.68	110.23	Initial Hydro-static
1	23.56	109.89	Open To Flow (1)
11	50.70	116.02	Shut-In(1)
43	1323.75	116.79	End Shut-In(1)
44	54.76	116.49	Open To Flow (2)
84	98.23	124.24	Shut-In(2)
205	1327.39	123.67	End Shut-In(2)
206	2226.20	123.95	Final Hydro-static

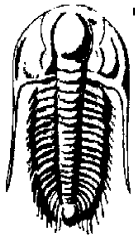
Recovery

Length (ft)	Description	Volume (bbl)
100.00	HMCW 30%M 70%W	0.49
100.00	WCM 15%W 85%M	1.25

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cholla Production LLC

10390 Bradford Rd Suite 201
Littleton Co 80127

ATTN: Clayton Erickson

4-20s-25w Ness KS

Schlegel #1-4

Job Ticket: 65964

DST#: 3

Test Start: 2019.07.09 @ 02:12:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:21:30

Time Test Ended: 10:57:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 4455.00 ft (KB) To 4470.00 ft (KB) (TVD)

Total Depth: 4470.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2423.00 ft (KB)

2416.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8352 Outside

Press@RunDepth: psig @ 4456.00 ft (KB)

Start Date: 2019.07.09

End Date:

2019.07.09

Start Time: 02:12:15

End Time:

10:57:45

Capacity: 8000.00 psig

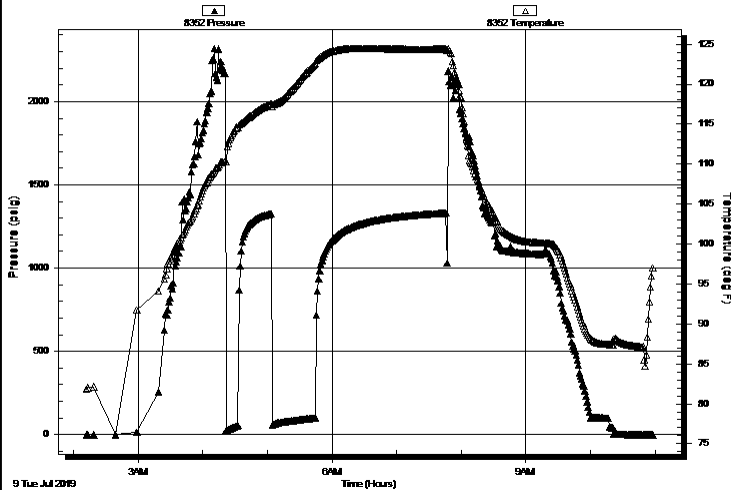
Last Calib.: 2019.07.09

Time On Btm:

Time Off Btm:

TEST COMMENT: 10-IF-Weak; Built to 3"
30-ISI-No Return
40-FF-Fair; Built to 6"
120-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

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

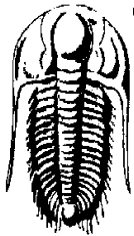
Recovery

Length (ft)	Description	Volume (bbl)
100.00	HMCW 30%M 70%W	0.49
100.00	WCM 15%W 85%M	1.25

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

4-20s-25w Ness KS

10390 Bradford Rd Suite 201
Littleton Co 80127

Schlegel #1-4

Job Ticket: 65964

DST#: 3

ATTN: Clayton Erickson

Test Start: 2019.07.09 @ 02:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 10.19 in³

Resistivity: ohm.m

Salinity: 5300.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity: 60000 ppm

deg API

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	HMCW 30%M 70%W	0.492
100.00	WCM 15%W 85%M	1.251

Total Length: 200.00 ft Total Volume: 1.743 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

Sampler= 400mL Mud 600mL Water @ 70PSI

Rw =.098@90F

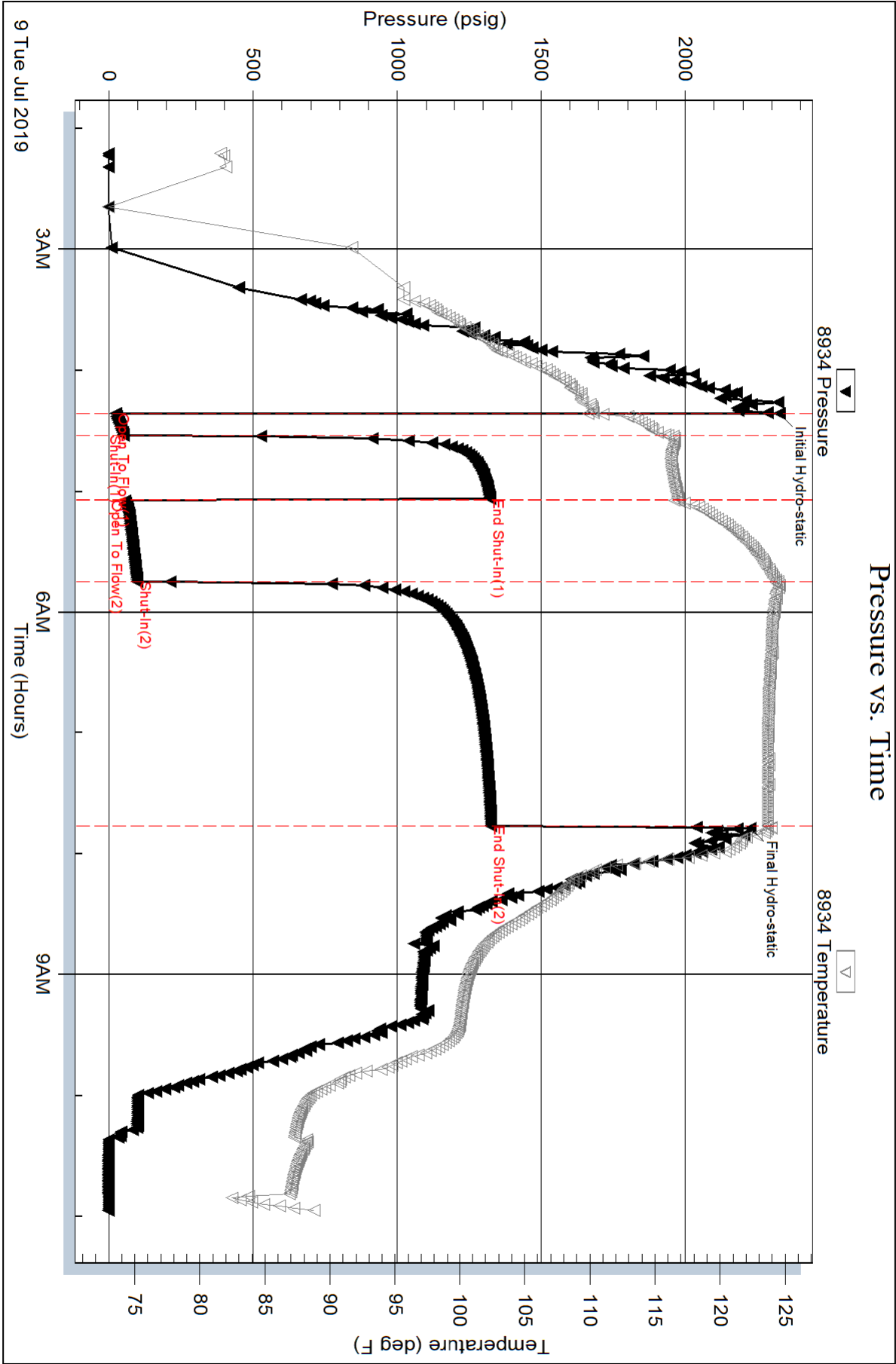
Serial #: 8934

Inside

Cholla Production LLC

Schlegel #1-4

DST Test Number: 3

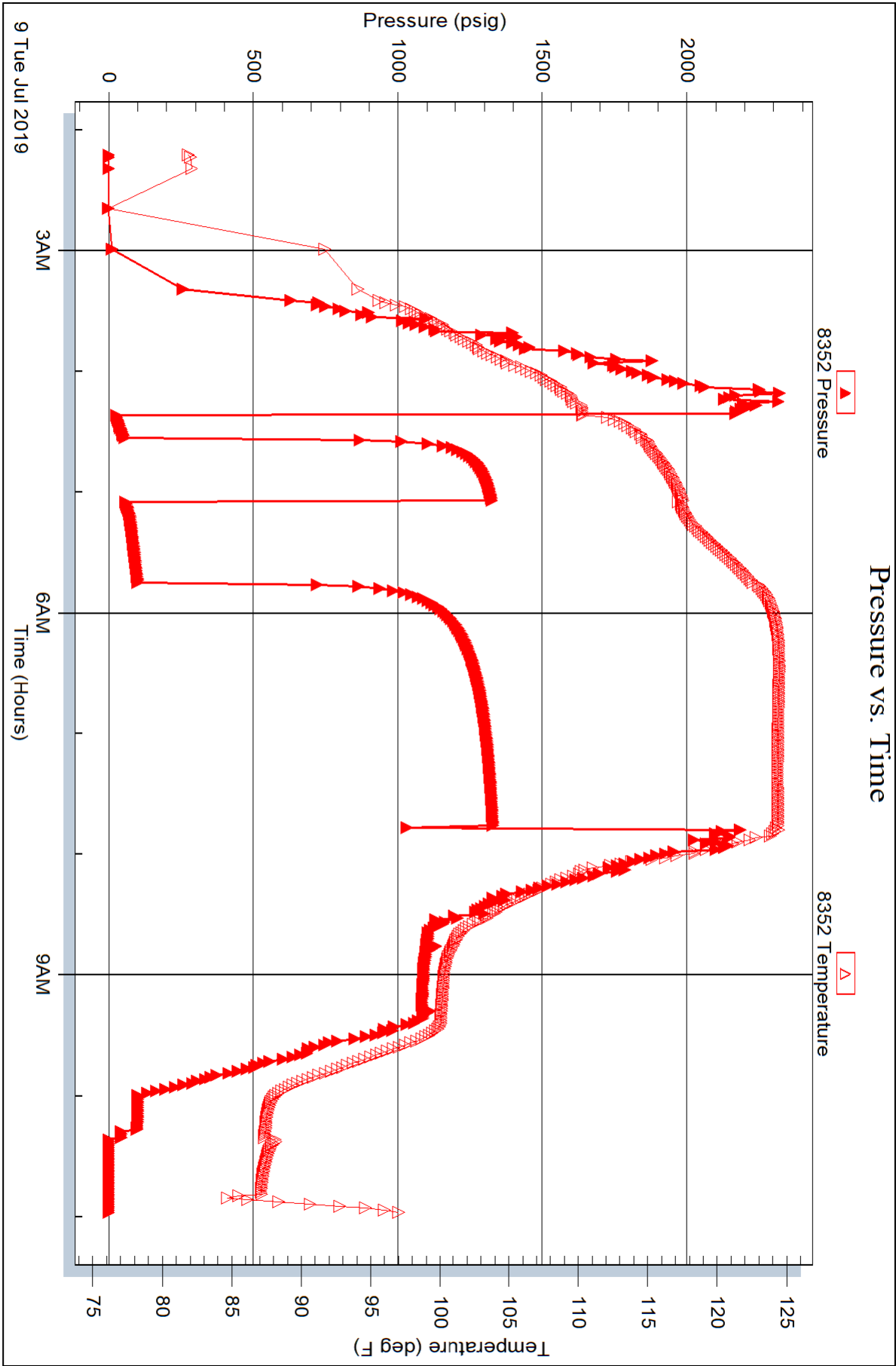


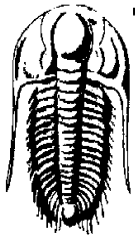
Serial #: 8352

Outside Cholla Production LLC

Schlegel #1-4

DST Test Number: 3





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC

10390 Bradford Rd Suite 201
Littleton Co 80127

ATTN: Clayton Erickson

4-20s-25w Ness KS

Schlegel #1-4

Job Ticket: 65963

DST#: 2

Test Start: 2019.07.08 @ 12:08:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:51:30

Time Test Ended: 18:02:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 4383.00 ft (KB) To 4455.00 ft (KB) (TVD)

Total Depth: 4455.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2423.00 ft (KB)

2416.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8934 Inside

Press@RunDepth: 26.99 psig @ 4387.00 ft (KB)

Start Date: 2019.07.08

End Date:

2019.07.08

Start Time: 12:08:15

End Time:

18:02:45

Capacity: 8000.00 psig

Last Calib.: 2019.07.08

Time On Btm: 2019.07.08 @ 13:51:15

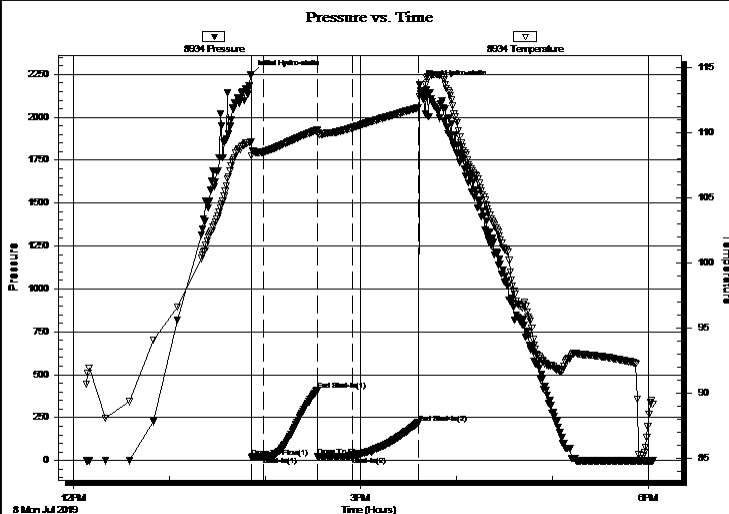
Time Off Btm: 2019.07.08 @ 15:36:30

TEST COMMENT: 10-IF-Weak; Built to 1/2"

30-ISI-No Return

20-FF-No Blow

40-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.10	109.33	Initial Hydro-static
1	20.73	108.23	Open To Flow (1)
8	21.55	108.53	Shut-In(1)
42	408.30	110.21	End Shut-In(1)
42	24.55	109.98	Open To Flow (2)
64	26.99	110.38	Shut-In(2)
105	219.37	111.91	End Shut-In(2)
106	2187.82	112.80	Final Hydro-static

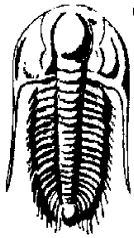
Recovery

Length (ft)	Description	Volume (bbl)
7.00	SOCM 12%O 88%M	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cholla Production LLC

10390 Bradford Rd Suite 201
Littleton Co 80127

ATTN: Clayton Erickson

4-20s-25w Ness KS

Schlegel #1-4

Job Ticket: 65963

DST#: 2

Test Start: 2019.07.08 @ 12:08:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:51:30

Time Test Ended: 18:02:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 4383.00 ft (KB) To 4455.00 ft (KB) (TVD)

Total Depth: 4455.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2423.00 ft (KB)

2416.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8352 Inside

Press@RunDepth: psig @ 4387.00 ft (KB)

Start Date: 2019.07.08

End Date:

2019.07.08

Start Time: 12:08:15

End Time:

18:03:00

Capacity: 8000.00 psig

Last Calib.: 2019.07.08

Time On Btm:

Time Off Btm:

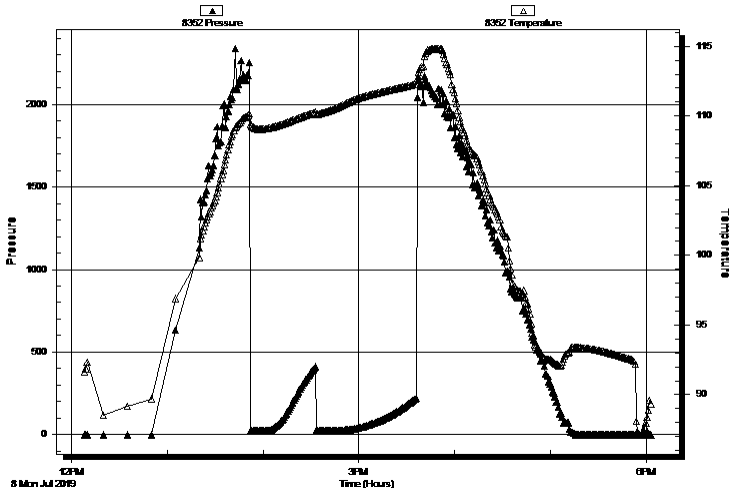
TEST COMMENT: 10-IF-Weak; Built to 1/2"

30-ISI-No Return

20-FF-No Blow

40-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

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

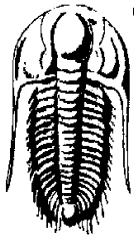
Recovery

Length (ft)	Description	Volume (bbl)
7.00	SOCM 12%O 88%M	0.03

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

4-20s-25w Ness KS

10390 Bradford Rd Suite 201
Littleton Co 80127

Schlegel #1-4

Job Ticket: 65963

DST#: 2

ATTN: Clayton Erickson

Test Start: 2019.07.08 @ 12:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 10.19 in³

Resistivity: ohm.m

Salinity: 5300.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	SOCM 12%O 88%M	0.034

Total Length: 7.00 ft Total Volume: 0.034 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

Sampler=100ml Oil 400mL Mud @36PSI

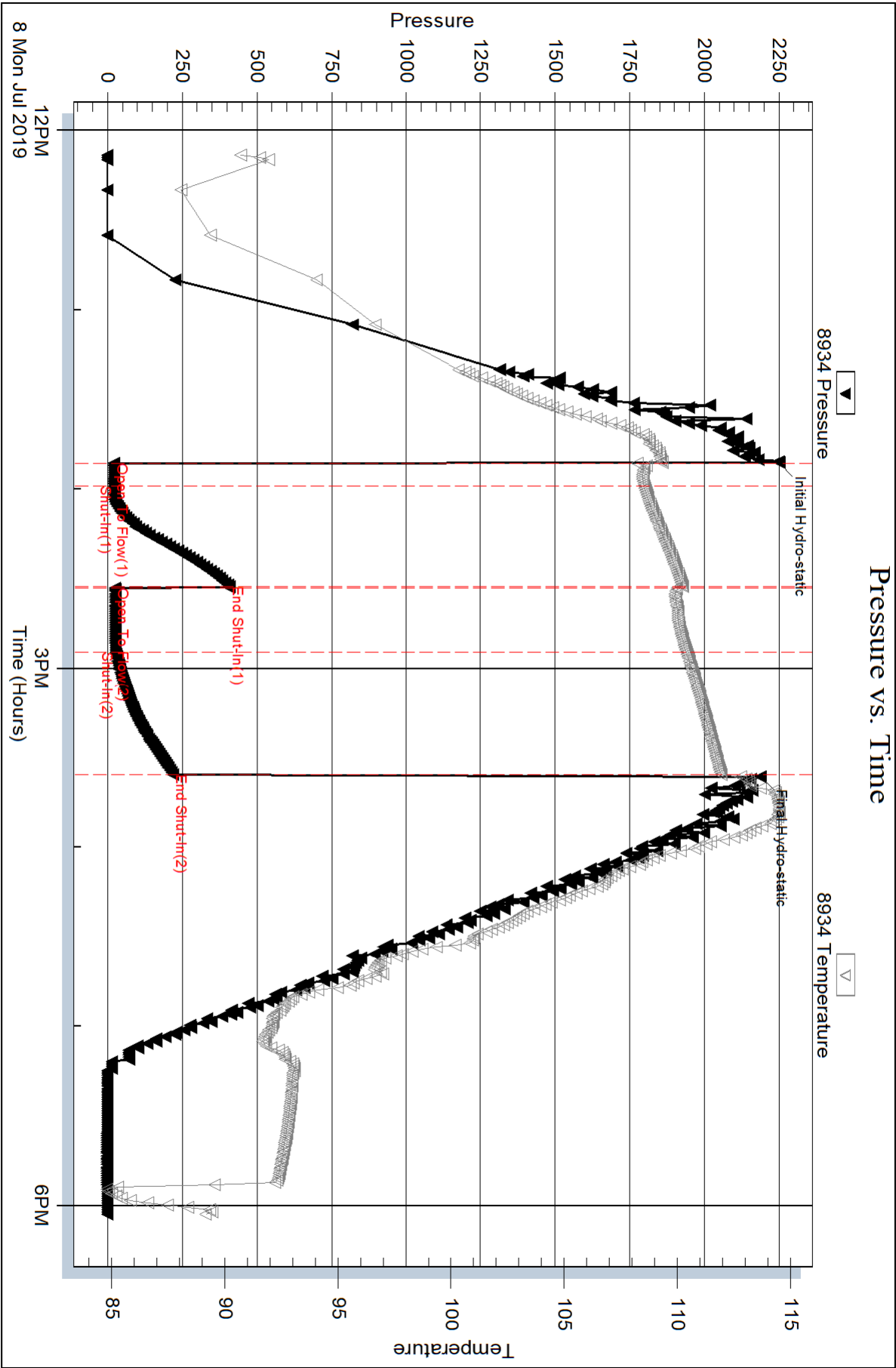
Serial #: 8934

Inside

Cholla Production LLC

Schlegel #1-4

DST Test Number: 2



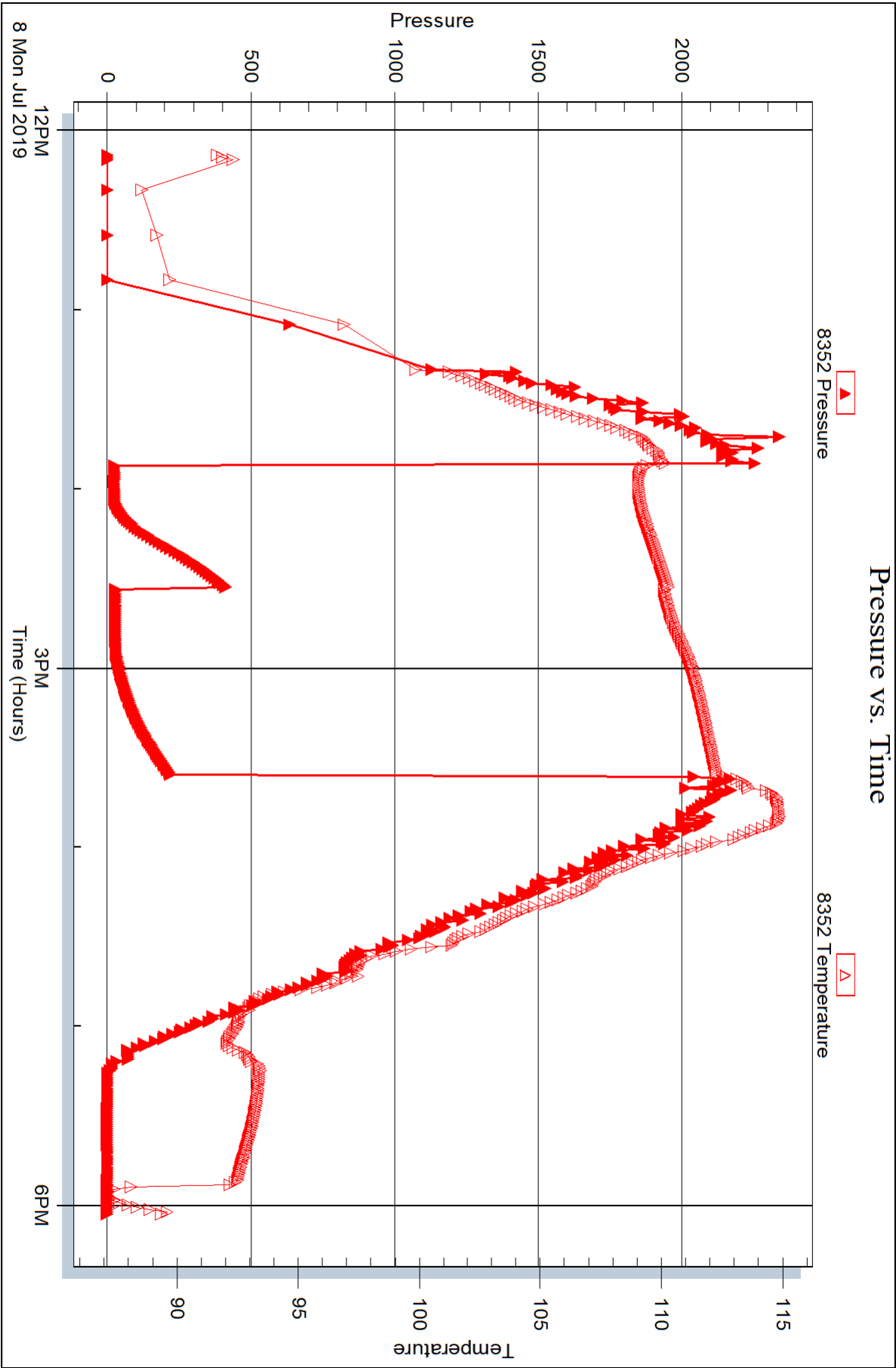
Serial #: 8352

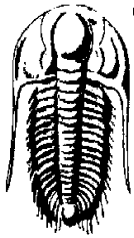
Inside

Cholla Production LLC

Schlegel #1-4

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC

10390 Bradford Rd Suite 201
Littleton Co 80127

ATTN: Clayton Erickson

4-20s-25w Ness KS

Schlegel #1-4

Job Ticket: 65962

DST#: 1

Test Start: 2019.07.07 @ 19:58:00

GENERAL INFORMATION:

Formation: **Ft Scott/ PBC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:34:00

Time Test Ended: 02:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 4310.00 ft (KB) To 4430.00 ft (KB) (TVD)

Total Depth: 4430.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2423.00 ft (KB)

2416.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8934 Inside

Press@RunDepth: 20.25 psig @ 4313.00 ft (KB)

Start Date: 2019.07.07

End Date:

2019.07.08

Start Time: 19:58:15

End Time:

02:40:00

Capacity: 8000.00 psig

Last Calib.: 2019.07.08

Time On Btm: 2019.07.07 @ 22:33:45

Time Off Btm: 2019.07.08 @ 00:33:00

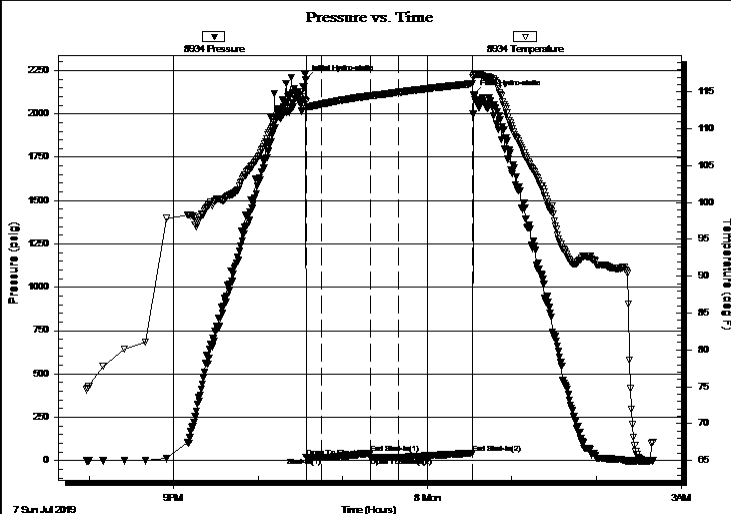
TEST COMMENT: 10-IF-Weak Surface; Died in 10 mins

30-ISI-No Return

20-FF-No Blow

40-FSI-No Return

PRESSURE SUMMARY



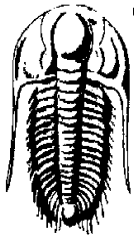
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.14	113.71	Initial Hydro-static
1	19.22	112.73	Open To Flow (1)
11	19.59	113.33	Shut-In(1)
46	42.42	114.48	End Shut-In(1)
47	19.75	114.48	Open To Flow (2)
66	20.25	114.95	Shut-In(2)
118	42.89	116.11	End Shut-In(2)
120	2107.89	117.23	Final Hydro-static

Recovery

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

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC

10390 Bradford Rd Suite 201
Littleton Co 80127

ATTN: Clayton Erickson

4-20s-25w Ness KS

Schlegel #1-4

Job Ticket: 65962

DST#: 1

Test Start: 2019.07.07 @ 19:58:00

GENERAL INFORMATION:

Formation: **Ft Scott/ PBC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:34:00

Time Test Ended: 02:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 4310.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 2423.00 ft (KB)

Total Depth: 4430.00 ft (KB) (TVD)

2416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8352 Inside

Press@RunDepth: psig @ 4313.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.07

End Date:

2019.07.08

Last Calib.:

2019.07.08

Start Time: 19:58:15

End Time:

02:40:15

Time On Btm:

Time Off Btm:

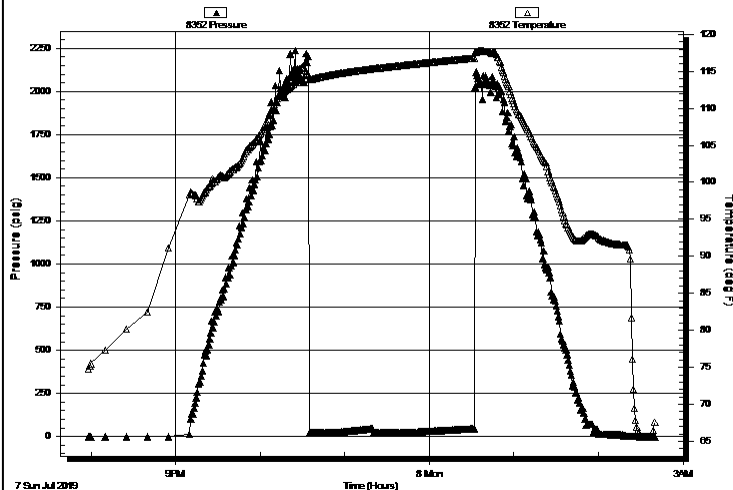
TEST COMMENT: 10-IF-Weak Surface; Died in 10 mins

30-ISI-No Return

20-FF-No Blow

40-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

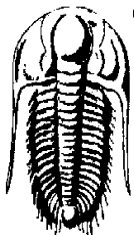
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

Recovery

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

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

4-20s-25w Ness KS

10390 Bradford Rd Suite 201
Littleton Co 80127

Schlegel #1-4

Job Ticket: 65962

DST#: 1

ATTN: Clayton Erickson

Test Start: 2019.07.07 @ 19:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 8.39 in³

Resistivity: ohm.m

Salinity: 4800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 4#LCM

Sampler=200ml Mud 100%M @ 21PSI

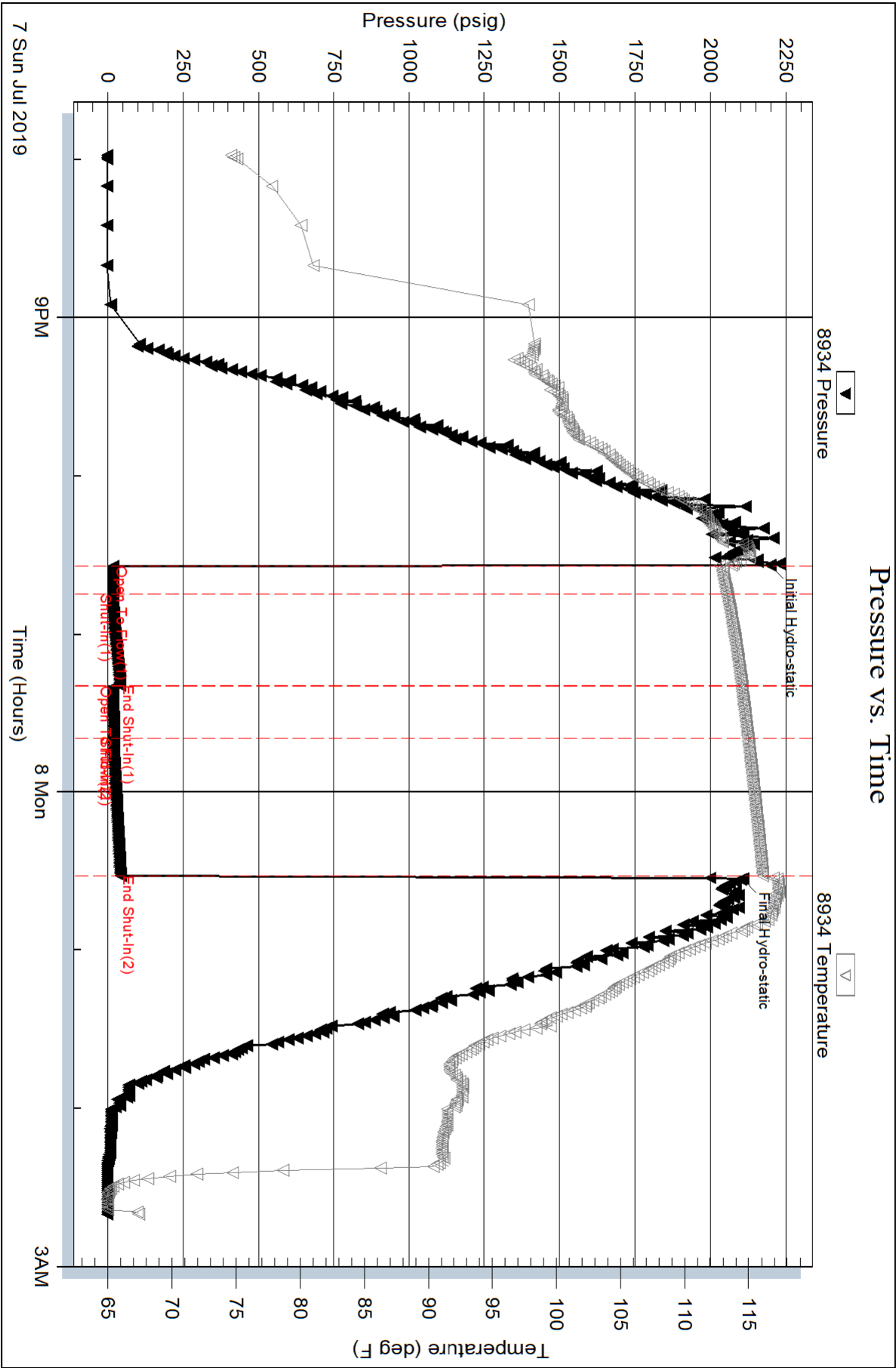
Serial #: 8934

Inside

Cholla Production LLC

Schlegel #1-4

DST Test Number: 1



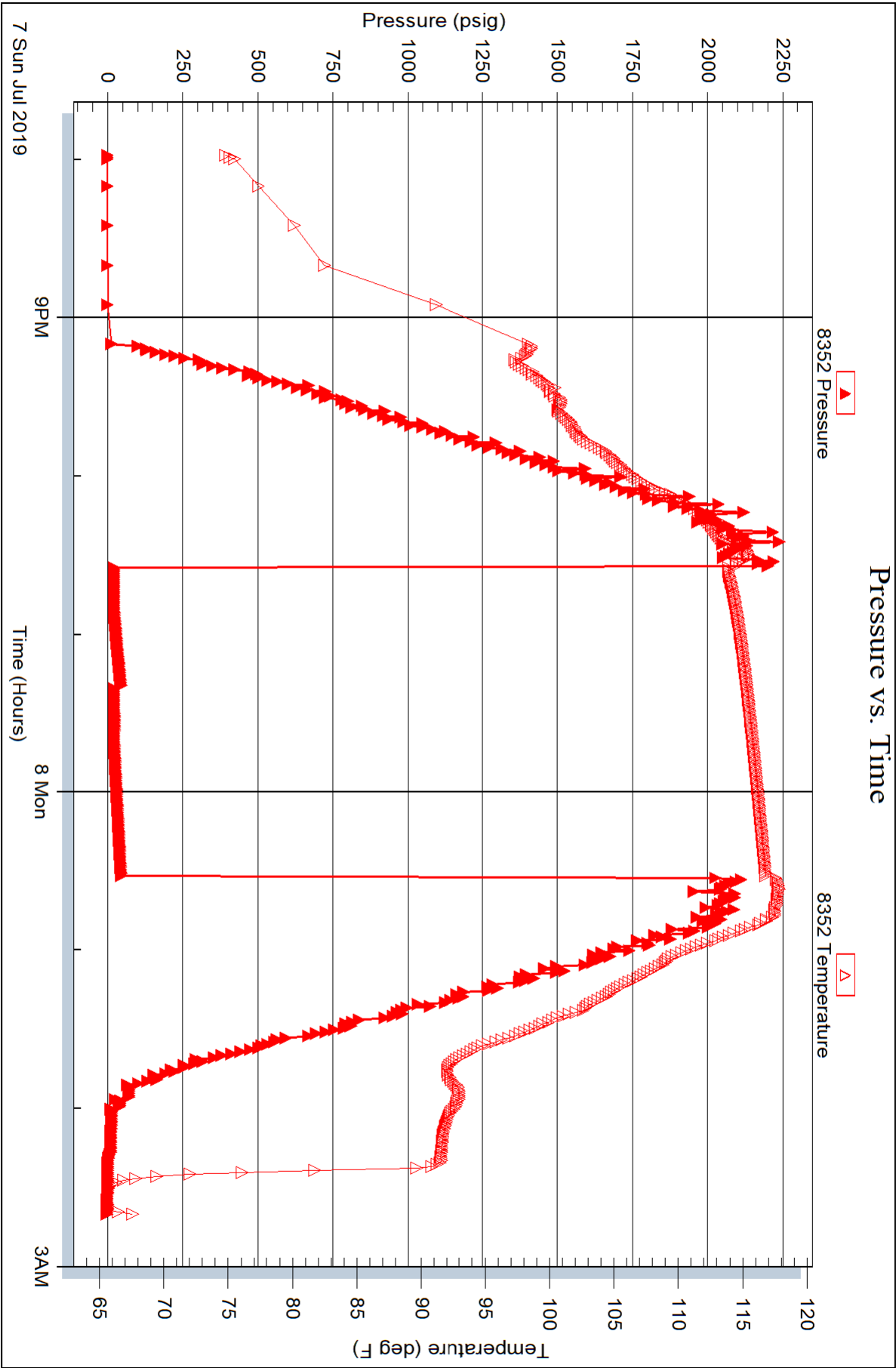
Serial #: 8352

Inside

Cholla Production LLC

Schlegel #1-4

DST Test Number: 1



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Home Office P.O. Box 32 Russell, KS 67665

No. 1503

Phone 785-483-1071

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-10-19	4	20	25	Neosho	KS		9:00pm

Lease	Well No.	Owner
Schlegel	1-4	To Quality Oilwell Cementing, Inc.

Contractor	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
S. T. P.		

Type Job	Charge To
Rammy Plug	Cholla Production LLC

Hole Size	T.D.	Depth	Street
7 7/8	4520		

Csg.	Depth	City	State

Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	

Tool	Depth	Cement Amount Ordered
		230 60/40 4 1/2 CBF 1/2 1/2 1/2

Cement Left in Csg.	Shoe Joint	

Meas Line	Displace	

EQUIPMENT		Common
Pumptrk 20	No. Cementer	Poz. Mix

	Helper	
Bulktrk	No. Driver	Gel.

	Driver	Calcium
Bulktrk 14	No. Driver	Hulls

	Driver	Salt
JOB SERVICES & REMARKS		Flowseal

Remarks:		Kol-Seal
Rat Hole 300K		Mud CLR 48

Mouse Hole		CFL-117 or CD110 CAF 38
Centralizers		Sand

Baskets		Handling
D/V or Port Collar		Mileage

15' 50SK 1720		
20' 80SK 850		

3' 50SK 300		
4' 20SK 100		

		FLOAT EQUIPMENT
		Guide Shoe

		Centralizer
		Baskets

		AFU Inserts
		Float Shoe

		Latch Down

		Pumptrk Charge
		Mileage

		Tax
		Discount

		Total Charge
--	--	--------------

X Signature	
-------------	--

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 1887

Cell 785-324-1041

Date	7-2-19	Sec.	4	Twp.	20	Range	25	County	Ness	State	KS	On Location		Finish	
Lease								Location							
Schlegel								Fair rd J 65 to 60rd 1W							
Well No.								Owner							
1-4								To: Quality Oilwell Cementing, Inc.							
Contractor								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
STP DRILLING															
Type Job								Charge To							
Surface								Cholla Energy							
Hole Size								T.D.							
12 1/4								246'							
Csg.								Depth							
8 5/8								265.65'							
Tbg. Size								Depth							
								City							
Tool								State							
Cement Left in Csg.								The above was done to satisfaction and supervision of owner agent or contractor.							
15'								Cement Amount Ordered							
Shoe Joint								150sk 8 1/2 31. + 21.							
Meas Line								Displace							
16 1/2 1120															
EQUIPMENT															
Common															
Pumptrk 20 No. Cementer															
10AY															
Bulktrk 4 No. Driver															
Mike															
Bulktrk No. Driver															
Jack															
Calcium															
Hulls															
Salt															
Flowseal															
Kol-Seal															
Mud CLR 48															
CFL-117 or CD110 CAF 38															
Sand															
Handling															
8 5/8 Set @ 265.65'															
60rd Circulation															
Mileage															
FLOAT EQUIPMENT															
Guide Shoe															
Centralizer															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge															
Mileage															
Tax															
Discount															
Total Charge															
Signature															

Notice: Fill out COMPLETELY
and return to Conservation Division at
the address below within
60 days from plugging date.

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL PLUGGING RECORD
K.A.R. 82-3-117

Form CP-4
July 2014
Type or Print on this Form
Form must be Signed
All blanks must be Filled

OPERATOR: License #: 31819
Name: Cholla Production, LLC
Address 1: 10390 Bradford Rd, Suite 201
Address 2: _____
City: Littleton State: CO Zip: 80127 + _____
Contact Person: Emily Hundley-Goff
Phone: (____) _____
Type of Well: (Check one) ☐ Oil Well ☐ Gas Well ☐ OG ☒ D&A ☐ Cathodic
☐ Water Supply Well ☐ Other: _____ ☐ SWD Permit #: _____
☐ ENHR Permit #: _____ ☐ Gas Storage Permit #: _____
Is ACO-1 filed? ☐ Yes ☐ No If not, is well log attached? ☐ Yes ☐ No
Producing Formation(s): List All (If needed attach another sheet)
____ Depth to Top: _____ Bottom: _____ T.D. _____
____ Depth to Top: _____ Bottom: _____ T.D. _____
____ Depth to Top: _____ Bottom: _____ T.D. _____

API No. 15 - 15-135-26054
Spot Description: _____
SW SE NE NE Sec. 4 Twp. 20 S. R. 25 ☐ East ☒ West
1,080 Feet from ☒ North / ☐ South Line of Section
510 Feet from ☒ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☒ NE ☐ NW ☐ SE ☐ SW
County: Ness
Lease Name: Schlegel Well #: 1-4
Date Well Completed: 7/11/19
The plugging proposal was approved on: 7/5/19 (Date)
by: Scott Alberg (KCC District Agent's Name)
Plugging Commenced: 7/10/19 @ 6:45 PM
Plugging Completed: 7/10/19 @ 9:00 PM

Show depth and thickness of all water, oil and gas formations.

Oil, Gas or Water Records		Casing Record (Surface, Conductor & Production)			
Formation	Content	Casing	Size	Setting Depth	Pulled Out
		Surface	12 1/4	266	None

Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same depth placed from (bottom), to (top) for each plug set.

Commenced cementing 7/10/19 @ 6:45 PM, 1st plug: 50sx @ 1720', 2nd plug: 80sx @ 850', 3rd plug: 50sx @ 300', 4th plug: 20sx @ 60', 30sx in the rathole. Total of 230sx of 60/40 Poz - 4% Gel - 1/4 # per sx flo-seal. Drilling mud was placed between all stages. Plugging complete 7/10/19, by Quality Cementing.

Plugging Contractor License #: 35410 Name: STP Drilling, LLC
Address 1: 2777 US Hwy 24 Address 2: _____
City: Hill City State: KS Zip: 67642 + _____
Phone: (785) 421-2990
Name of Party Responsible for Plugging Fees: Cholla Production, LLC
State of _____ County, _____, ss. _____
(Print Name) ☐ Employee of Operator or ☐ Operator on above-described well,

being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained, and the log of the above-described well is as filed, and the same are true and correct, so help me God.

Signature: _____

ERICKSON WELLSITE GEOLOGY

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

Well Name: Schlegel #1-4
Well Id:
Location: Sec 4 T20S R25W
License Number: 15-135-26054-00-00
Spud Date: 7/2/2019
Surface Coordinates: 1080' FNL & 510' FEL

Region: Ness County, KS
Drilling Completed: 7/9/2019

Bottom Hole

Coordinates:
Ground Elevation (ft): 2416
Logged Interval (ft): 3700
Formation:
Type of Drilling Fluid: Chemical Mud

K.B. Elevation (ft): 2423
Total Depth (ft): 4520
To: TD

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

OPERATOR

Company: Cholla Production, LLC
Address: 10390 Bradford Road, Suite 201
Littleton, CO 80127

GEOLOGIST

Name: Clayton Erickson
Company: Erickson Wellsite Geology
Address: 402 Palmer Street
P.O. Box 294
Loomis, NE 68958

COMMENTS

Based upon sample examination, DST results and E-log evaluation it was decided to P&A.

DSTs

DST #1 4310-4430 10-30-24-40; Hydro: 2198-2107 IFP: 19-19 ISIP: 42 FFP: 19-20 FSIP: 42; Rec: 5' mud; BHT: 116F; IF: dead in 10 min ISI: dead FF: dead FSI: dead; smpl chmbr: 200ml mud

DST #2 4383-4455 10-30-20-40; Hydro: 2250-2157 IFP: 20-21 ISIP: 408 FFP: 24-26 FSIP: 219; Rec: 7' 12%w 88%w 30%w; 100' 15%w 85%w; BHT: 123F; IF: 3" ISI: dead FF: 6" FSI: dead; smpl chmbr: 100ml oil 400ml mud

DST #3 4455-4470 10-30-40-120; Hydro: 2325-2226 IFP: 23-50 ISIP: 1323 FFP: 54-98 FSIP: 1327; Rec: 100' 70%w 30%w; 100' 15%w 85%w; BHT: 123F; IF: 3" ISI: dead FF: 6" FSI: dead; smpl chmbr: 400ml mud 600ml water

DST #4 4420-4462(straddle) 10-30-30-90; Hydro: 2276-2212 IFP: 10-20 ISIP: 1110 FFP: 21-24 FSIP: 1088 Rec: 3' oil spotted mud; BHT: 118F; IF: surface ISI: dead FF: dead FSI: dead; smpl chmbr: 300ml mud

FORMATION TOPS

Log Tops

Anhydrite 1688(+735)
HEEBNER 3780(-1357)
LANSING 3817(-1394)
BKC 4186(-1763)
MARMATON 4213(-1790)
FT. SCOTT 4336(-1913)
CHEROKEE SH 4358(-1935)
MISSISSIPPIAN 4436(-2013)
MISS Dolomite 4442(-2019)
TD 4518(-2095)

Sample tops

1692(+731)
3782(-1359)
3818(-1395)
4189(-1766)
4212(-1789)
4340(-1917)
4360(-1937)
4436(-2013)
4443(-2020)
4520(-2097)

	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Carb. shale		Igne		Salt		Siltst
	Brec		Arkose		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

OTHER SYMBOLS

OIL SHOW Even
Spotted Ques
Dead
INTERVAL Dst

