

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1097167

Form ACO-1

August 2013

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:

- | | | |
|--|---|-------------------------------------|
| <input type="checkbox"/> New Well | <input type="checkbox"/> Re-Entry | <input type="checkbox"/> Workover |
| <input type="checkbox"/> Oil | <input type="checkbox"/> WSW | <input type="checkbox"/> SWD |
| <input type="checkbox"/> Gas | <input type="checkbox"/> D&A | <input type="checkbox"/> ENHR |
| <input type="checkbox"/> OG | <input type="checkbox"/> GSW | <input type="checkbox"/> Temp. Abd. |
| <input type="checkbox"/> CM (Coal Bed Methane) | | |
| <input type="checkbox"/> Cathodic | <input type="checkbox"/> Other (Core, Expl., etc.): _____ | |

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- | | | | |
|--|---------------------------------------|--|---------------------------------------|
| <input type="checkbox"/> Deepening | <input type="checkbox"/> Re-perf. | <input type="checkbox"/> Conv. to ENHR | <input type="checkbox"/> Conv. to SWD |
| <input type="checkbox"/> Plug Back | <input type="checkbox"/> Conv. to GSW | <input type="checkbox"/> Conv. to Producer | |
| <input type="checkbox"/> Commingled | Permit #: _____ | | |
| <input type="checkbox"/> Dual Completion | Permit #: _____ | | |
| <input type="checkbox"/> SWD | Permit #: _____ | | |
| <input type="checkbox"/> ENHR | Permit #: _____ | | |
| <input type="checkbox"/> GSW | Permit #: _____ | | |

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

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

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____



1097167

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 (Attach Additional Sheets)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No (If No, skip questions 2 and 3)

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No (If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Cholla Production, LLC
Well Name	Ruder 1-5
Doc ID	1097167

All Electric Logs Run

Dual Induction
Micro
Porosity
Sonic

FIELD TICKET & TREATMENT REPORT
CEMENT

Ticket Number 37106
Location Oakla. Ks
Foreman Walt Dyer

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-21-12		Ruder 1-5	5	11 ^S	23	Trego
CUSTOMER Challa Production, LLC			Walcross			
MAILING ADDRESS			N-to GL			
CITY			1 1/2 W			
STATE			S.S.			
ZIP CODE						
			TRUCK #	DRIVER	TRUCK #	DRIVER
			463	Josh Gurdle		
			566	Calvin		

JOB TYPE <u>Surface</u>	HOLE SIZE <u>12 1/4</u>	HOLE DEPTH <u>272'</u>	CASING SIZE & WEIGHT <u>8 3/8 - 20#</u>
CASING DEPTH <u>272'</u>	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT <u>15.2</u>	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING <u>20#</u>
DISPLACEMENT <u>16.</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>5 Bpm</u>

REMARKS: Safety, Mooring, rig up on W-61#12, Circ casing on bottom
mix 175 sks corn, 3% cc, 2% gel, Displace 16 BB/ H₂O @ 200#
skint in

Comment Did Civic

Approx 4 BBL to Dif

Thank You
Walt & crew

[illegible]

Ravin 3737

AUTHORIZATION

TITLE

DATE 8-22-72

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

FIELD TICKET & TREATMENT REPORT
CEMENT

FOREMAN *Miles Shaw*

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-25-12	2582	Ruber #1-5	5	11S	23W	71992
CUSTOMER Chalks Production						
MAILING ADDRESS						
CITY		STATE	ZIP CODE			

TRUCK #	DRIVER	TRUCK #	DRIVER
450 + 115	Bobby S		
56C	m. H. m		

JOB TYPE <u>PTA</u>	HOLE SIZE <u>7 7/8</u>	HOLE DEPTH <u>3950</u>	CASING SIZE & WEIGHT _____
CASING DEPTH _____	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT <u>13-8</u>	SLURRY VOL <u>1.4</u>	WATER gal/sk _____	CEMENT LEFT in CASING _____
DISPLACEMENT _____	DISPLACEMENT PSI _____	MIX PSI _____	RATE _____

REMARKS: Safety meeting and rig upon WW Drilling #12 plugs as ordered

1 st	25 SKs @ 2950 3950'
2 nd	25 SKs @ 1840'
3 rd	160 SKs @ 965'
4 th	40 SKs @ 320'
	230 SKs @ 40' No 2 98 gal 1/4" No 2
Tot	10 SKs @ 40' Wilder
RH	30 SKs

Thanks m.f.s & crew

[illegible]

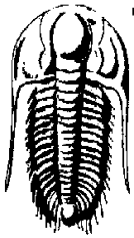
Ravin 3737

AUTHORIZTION

TITLE

DATE 8-28-17

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production, LLC

5-11-23, Trego, KS

7851 S Elati ST STE 201
Littleton CO 80120

Ruder #1-5

Job Ticket: 48558

DST#: 1

ATTN: Bill Goff

Test Start: 2012.08.25 @ 03:15:00

GENERAL INFORMATION:

Formation: **KC"C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:44:30

Time Test Ended: 12:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3596.00 ft (KB) To 3633.00 ft (KB) (TVD)

Total Depth: 3633.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2324.00 ft (KB)

2316.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6753 Inside

Press @ Run Depth: 161.40 psig @ 3597.00 ft (KB)

Start Date: 2012.08.25

End Date:

2012.08.25

Start Time: 03:15:05

End Time:

12:05:00

Capacity: 8000.00 psig

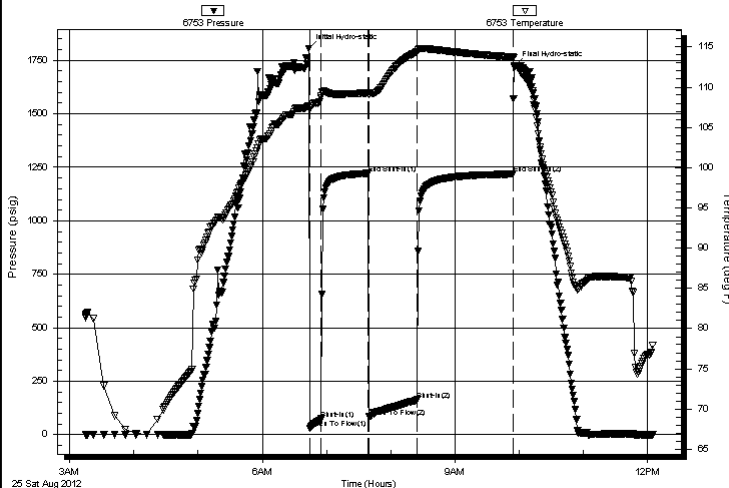
Last Calib.: 2012.08.25

Time On Btm: 2012.08.25 @ 06:43:30

Time Off Btm: 2012.08.25 @ 09:56:30

TEST COMMENT: IF-4in blow
ISI-No blow
FF-BOB in 43min
FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

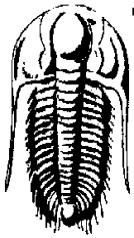
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1805.81	107.68	Initial Hydro-static
1	31.28	107.42	Open To Flow (1)
12	74.17	108.90	Shut-In (1)
55	1221.88	109.28	End Shut-In (1)
56	83.26	109.02	Open To Flow (2)
101	161.40	114.37	Shut-In (2)
191	1218.37	113.74	End Shut-In (2)
193	1723.39	112.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
270.00	Water	2.69

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production, LLC

5-11-23, Trego, KS

7851 S Elati ST STE 201
Littleton CO 80120

Ruder #1-5

Job Ticket: 48558

DST#: 1

ATTN: Bill Goff

Test Start: 2012.08.25 @ 03:15:00

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: 100000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
270.00	Water	2.694

Total Length: 270.00 ft Total Volume: 2.694 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .08 @ 70

Sampler Data 3000ml Water 350psi

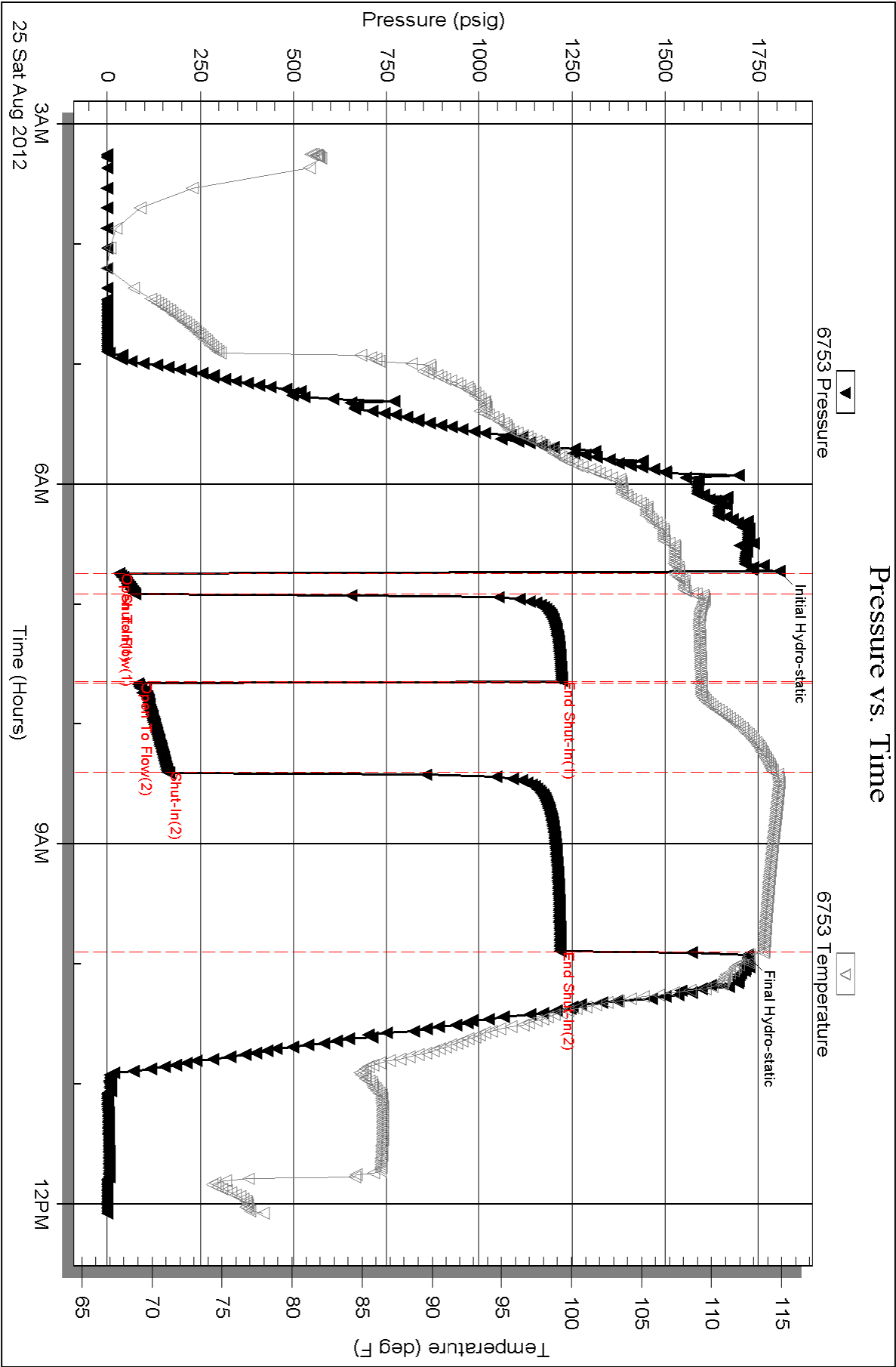
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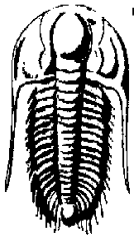
Inside

Cholla Production, LLC

Ruder #1-5

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production, LLC

5-11-23, Trego, KS

7851 S Elati ST STE 201
Littleton CO 80120

Ruder #1-5

Job Ticket: 48559

DST#: 2

ATTN: Bill Goff

Test Start: 2012.08.25 @ 20:00:00

GENERAL INFORMATION:

Formation: **KC"E,F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:14:30

Time Test Ended: 03:20:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3634.00 ft (KB) To 3670.00 ft (KB) (TVD)

Total Depth: 3670.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2324.00 ft (KB)

2316.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6753 Inside

Press @ Run Depth: 20.13 psig @ 3635.00 ft (KB)

Start Date: 2012.08.25

End Date:

2012.08.26

Start Time: 20:00:05

End Time:

03:20:29

Capacity: 8000.00 psig

Last Calib.: 2012.08.26

Time On Btm: 2012.08.25 @ 23:13:30

Time Off Btm: 2012.08.26 @ 01:26:00

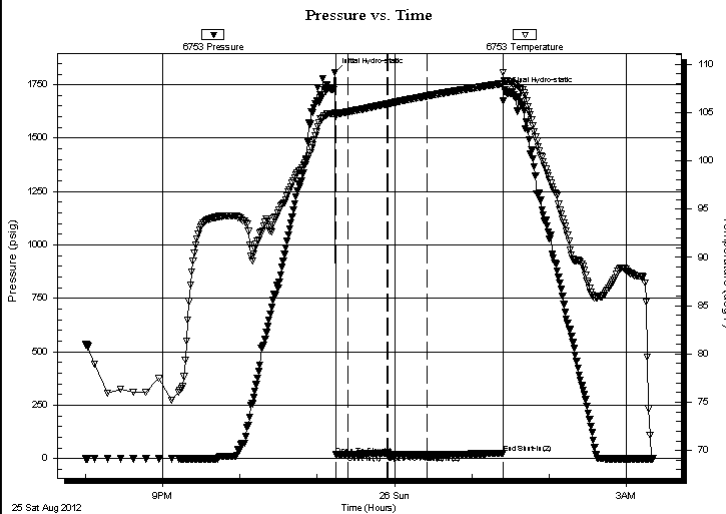
TEST COMMENT: IF-Very weak surface blow

ISI-No blow

FF-No blow

FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1807.73	105.00	Initial Hydro-static
1	18.42	104.56	Open To Flow (1)
11	20.85	105.07	Shut-In(1)
41	26.87	105.89	End Shut-In(1)
41	18.66	105.90	Open To Flow (2)
72	20.13	106.71	Shut-In(2)
131	25.40	108.00	End Shut-In(2)
133	1718.97	108.29	Final Hydro-static

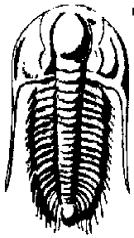
Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production, LLC

5-11-23, Trego, KS

7851 S Elati ST STE 201
Littleton CO 80120

Ruder #1-5

Job Ticket: 48559

DST#: 2

ATTN: Bill Goff

Test Start: 2012.08.25 @ 20:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 1500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data 1000ml Mud 10psi

Serial #: 6753

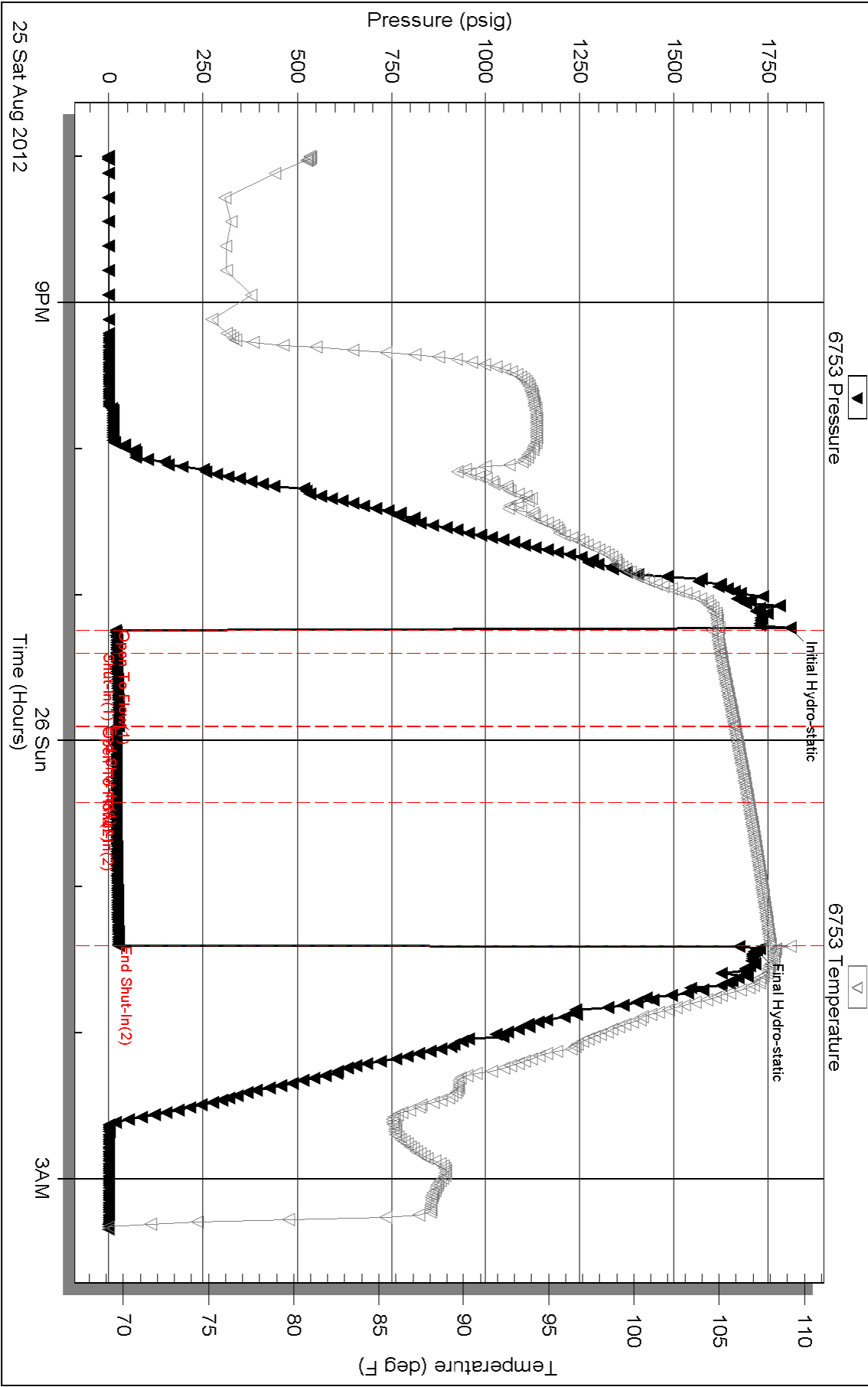
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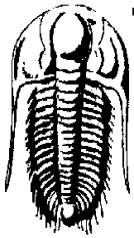
Cholla Production, LLC

Ruder #1-5

DST Test Number: 2

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cholla Production, LLC

5-11-23, Trego, KS

7851 S Elati ST STE 201
Littleton CO 80120

Ruder #1-5

Job Ticket: 48560

DST#: 3

ATTN: Bill Goff

Test Start: 2012.08.26 @ 15:00:00

GENERAL INFORMATION:

Formation: **KC"J-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:26:00

Time Test Ended: 23:42:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3734.00 ft (KB) To 3800.00 ft (KB) (TVD)

Total Depth: 3800.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2324.00 ft (KB)

2316.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6753 Inside

Press @ Run Depth: 23.37 psig @ 3735.00 ft (KB)

Start Date: 2012.08.26

End Date:

2012.08.26

Start Time: 15:00:05

End Time:

23:42:00

Capacity: 8000.00 psig

Last Calib.: 2012.08.26

Time On Btm: 2012.08.26 @ 19:24:30

Time Off Btm: 2012.08.26 @ 21:50:00

TEST COMMENT: IF-Very weak surface blow

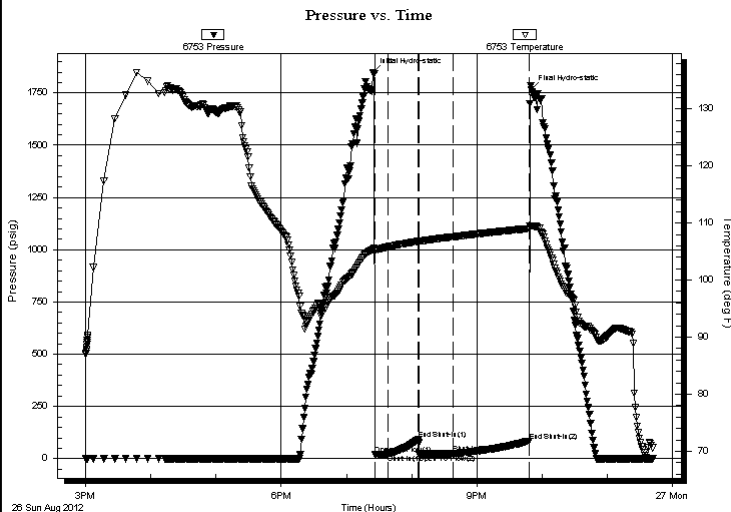
ISI-No blow

FF-No blow

FSI-No blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1848.54	105.35	Initial Hydro-static
2	20.68	105.15	Open To Flow (1)
14	22.18	105.81	Shut-In(1)
42	93.75	106.79	End Shut-In(1)
43	22.77	106.79	Open To Flow (2)
73	23.37	107.56	Shut-In(2)
143	84.97	109.02	End Shut-In(2)
146	1767.60	109.48	Final Hydro-static



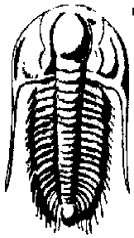
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production, LLC

5-11-23, Trego, KS

7851 S Elati ST STE 201
Littleton CO 80120

Ruder #1-5

Job Ticket: 48560

DST#: 3

ATTN: Bill Goff

Test Start: 2012.08.26 @ 15:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	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: SamplerData 3000ml mud 40psi

Serial #: 6753

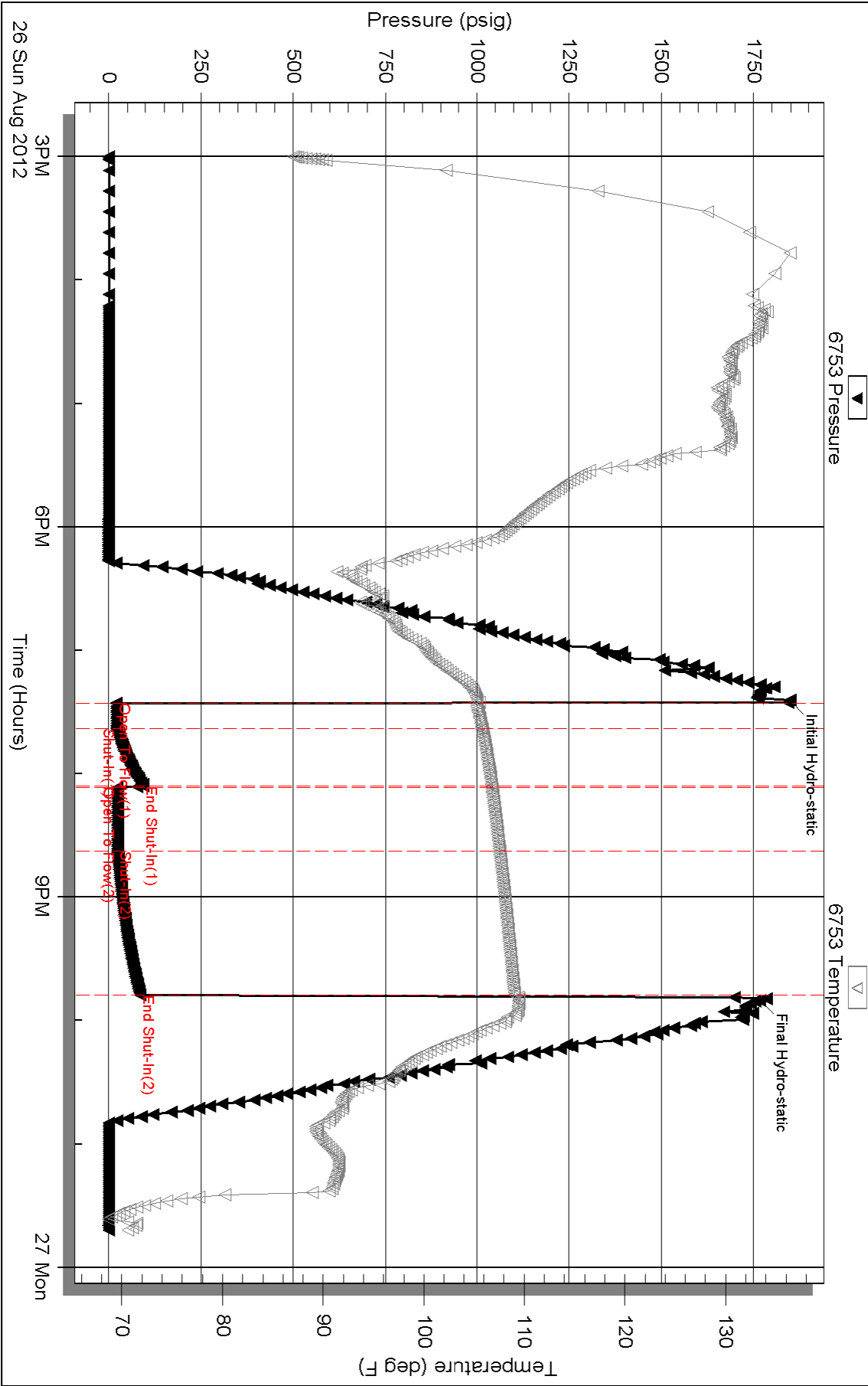
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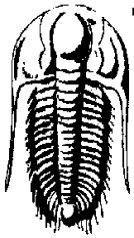
Cholla Production, LLC

Ruder #1-5

DST Test Number: 3

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production, LLC

7851 S Elati ST STE 201
Littleton CO 80120

ATTN: Bill Goff

5-11-23, Trego, KS

Ruder #1-5

Job Ticket: 48561

DST#: 4

Test Start: 2012.08.28 @ 06:45:00

GENERAL INFORMATION:

Formation: **KC"A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:47:00

Time Test Ended: 14:05:00

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3580.00 ft (KB) To 3605.00 ft (KB) (TVD)

Total Depth: 4081.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2324.00 ft (KB)

2316.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8319 Inside

Press @ Run Depth: 118.60 psig @ 3601.00 ft (KB)

Start Date: 2012.08.28

End Date:

2012.08.28

Start Time: 06:45:05

End Time:

14:04:59

Capacity: 8000.00 psig

Last Calib.: 2012.08.28

Time On Btm: 2012.08.28 @ 08:45:30

Time Off Btm: 2012.08.28 @ 11:59:30

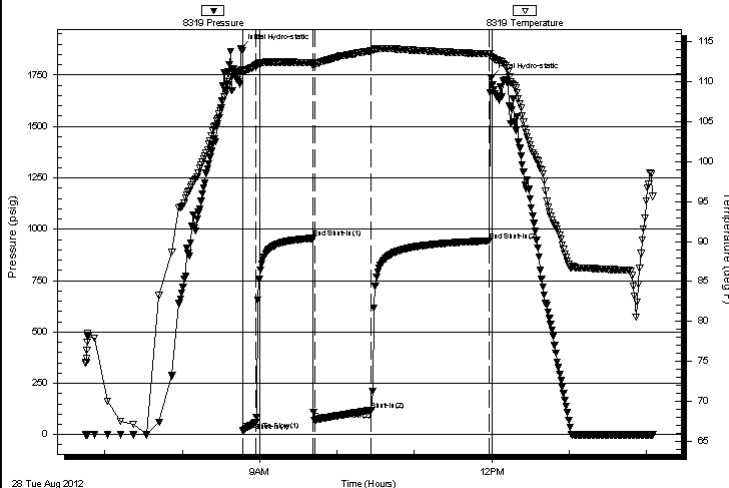
TEST COMMENT: IF-3.75in blow

ISI-No blow

FF-6in blow

FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1880.16	111.39	Initial Hydro-static
2	19.46	111.21	Open To Flow (1)
12	58.40	112.04	Shut-In (1)
56	955.34	112.43	End Shut-In (1)
57	69.47	112.24	Open To Flow (2)
101	118.60	113.87	Shut-In (2)
192	943.32	113.53	End Shut-In (2)
194	1738.59	113.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	Water	1.85

Gas Rates

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

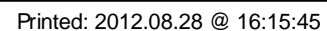
* Recovery from multiple tests

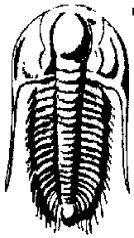


Test Start: 2012.08.28 @ 06:45:00

KB to GR/CF: 8.00 ft

FSI-No blow





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production, LLC

5-11-23, Trego, KS

7851 S Elati ST STE 201
Littleton CO 80120

Ruder #1-5

Job Ticket: 48561

DST#: 4

ATTN: Bill Goff

Test Start: 2012.08.28 @ 06:45:00

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:

80000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	Water	1.853

Total Length: 210.00 ft Total Volume: 1.853 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SamplerData 3000ml Water 150psi
RW .08 @85

Serial #: 8319

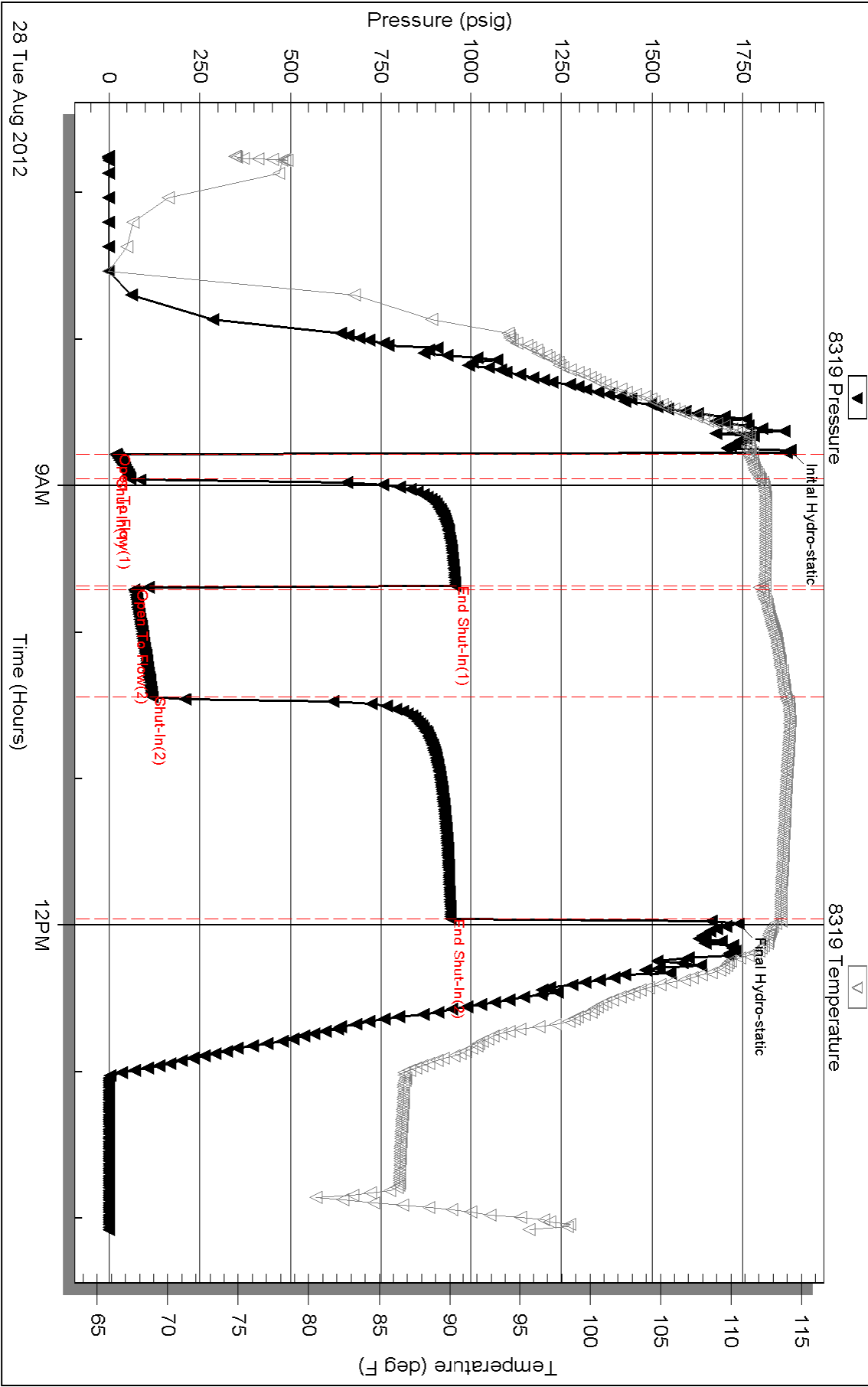
Inside

Cholla Production, LLC

Ruder #1-5

DST Test Number: 4

Pressure vs. Time

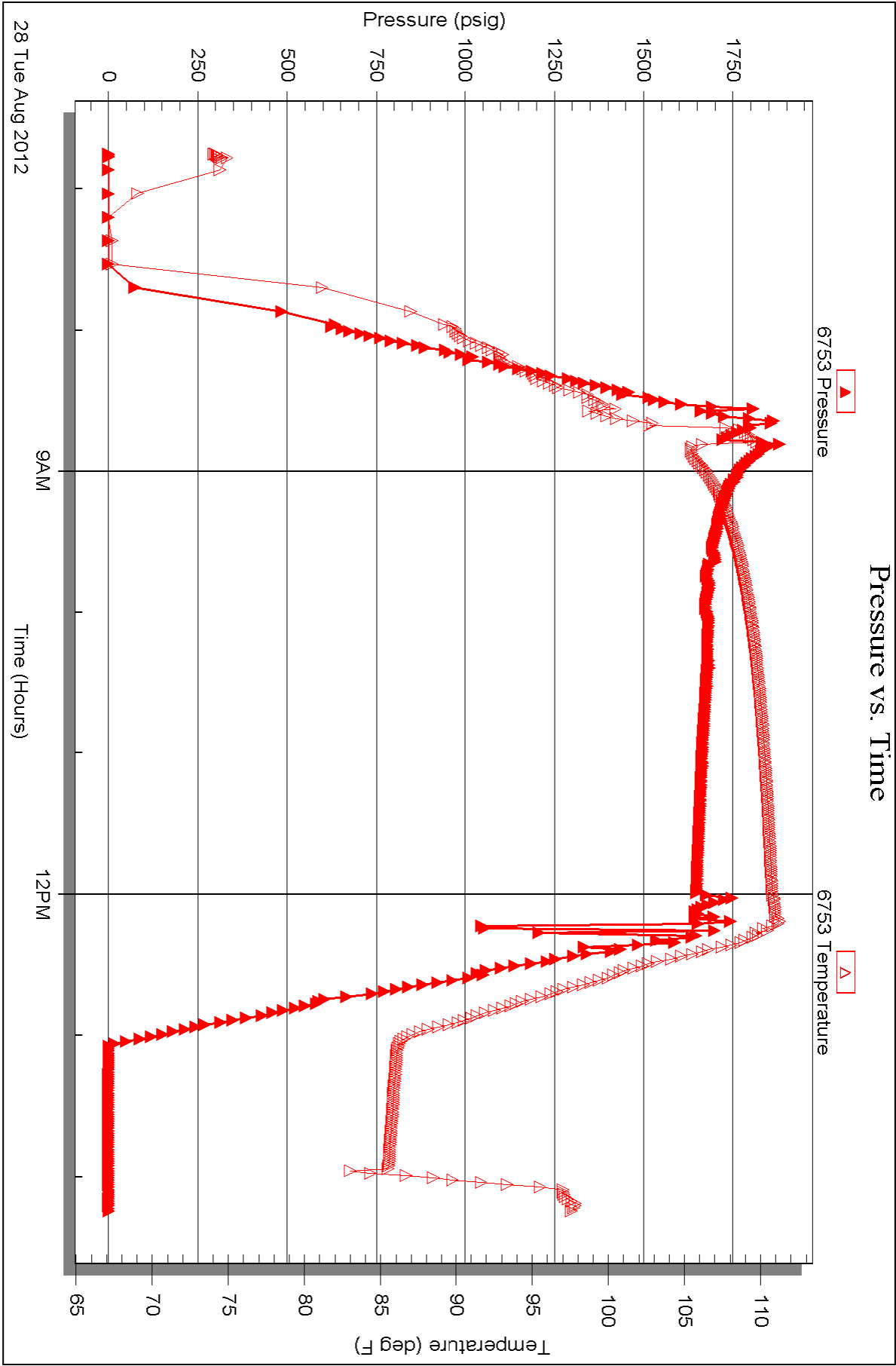


Serial #: 6753

Below (Stratton) Production, LLC

Ruder #1-5

DST Test Number: 4



Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 20, 2012

Emily Hundley-Goff
Cholla Production, LLC
7851 S ELATI ST STE 201
LITTLETON, CO 80120-8081

Re: ACO1
API 15-195-22802-00-00
Ruder 1-5
NE/4 Sec.05-11S-23W
Trego County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Emily Hundley-Goff