

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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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cholla Production LLC
 10390 Bradford Rd Suite 201
 ATTN: Jeff Lawler

14-15S-20W Ellis KS
Penney #2-14-15-20
 Job Ticket: 67864 **DST#: 1**
 Test Start: 2022.01.12 @ 17:38:00

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:03:17
 Time Test Ended: 00:19:07
 Interval: **3517.00 ft (KB) To 3592.00 ft (KB) (TVD)**
 Total Depth: 3592.00 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: 2087.00 ft (KB)
 2079.00 ft (CF)
 KB to GR/CF: 8.00 ft

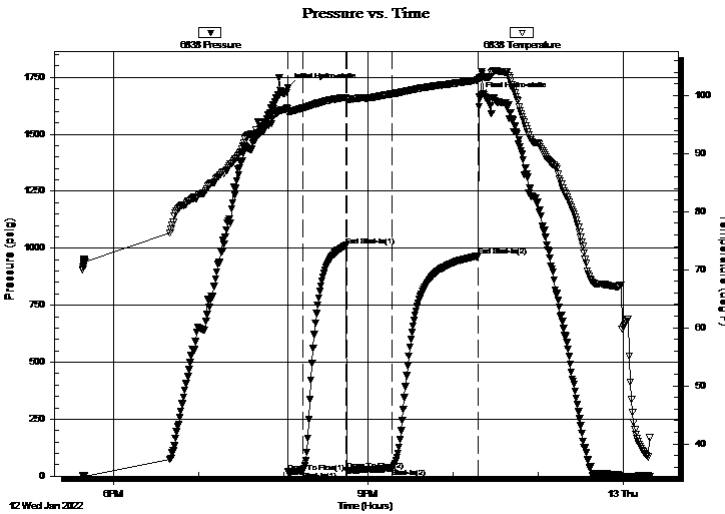
Serial #: 6838

Inside

Press@RunDepth: 33.38 psig @ 3520.00 ft (KB) Capacity: psig
 Start Date: 2022.01.12 End Date: 2022.01.13 Last Calib.: 2022.01.13
 Start Time: 17:38:01 End Time: 00:19:07 Time On Btm: 2022.01.12 @ 20:03:07
 Time Off Btm: 2022.01.12 @ 22:18:07

TEST COMMENT: 10-IF-Surface to 1.25"
 30-ISI-No Return
 30-FF-No Blow
 60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.00	97.69	Initial Hydro-static
1	18.08	97.03	Open To Flow (1)
11	22.98	97.82	Shut-In(1)
42	1011.97	99.70	End Shut-In(1)
42	25.08	99.46	Open To Flow (2)
74	33.38	100.28	Shut-In(2)
135	965.32	102.66	End Shut-In(2)
135	1663.70	102.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100% Mud	0.10
0.00	Sampler 2000mL @50PSI 100%M	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cholla Production LLC
10390 Bradford Rd Suite 201
ATTN: Jeff Lawler

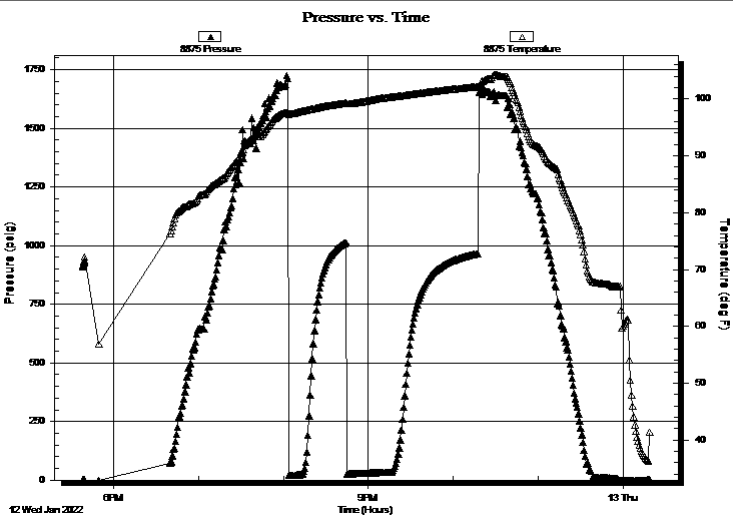
14-15S-20W Ellis KS
Penney #2-14-15-20
Job Ticket: 67864 **DST#: 1**
Test Start: 2022.01.12 @ 17:38:00

GENERAL INFORMATION:

Formation: **LKC H-J**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 20:03:17 Tester: Spencer J Staab
Time Test Ended: 00:19:07 Unit No: 84
Interval: 3517.00 ft (KB) To 3592.00 ft (KB) (TVD) Reference Elevations: 2087.00 ft (KB)
Total Depth: 3592.00 ft (KB) (TVD) 2079.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8875 Inside
Press@RunDepth: psig @ 3520.00 ft (KB) Capacity: psig
Start Date: 2022.01.12 End Date: 2022.01.13 Last Calib.: 2022.01.13
Start Time: 17:38:01 End Time: 00:19:07 Time On Btm:
Time Off Btm:

TEST COMMENT: 10-IF-Surface to 1.25"
30-ISI-No Return
30-FF-No Blow
60-FSI-No Return



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

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	Mud 100% Mud	0.10
0.00	Sampler 2000mL @50PSI 100%M	0.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC
10390 Bradford Rd Suite 201
ATTN: Jeff Lawler

14-15S-20W Ellis KS
Penney #2-14-15-20
Job Ticket: 67864 **DST#: 1**
Test Start: 2022.01.12 @ 17:38:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

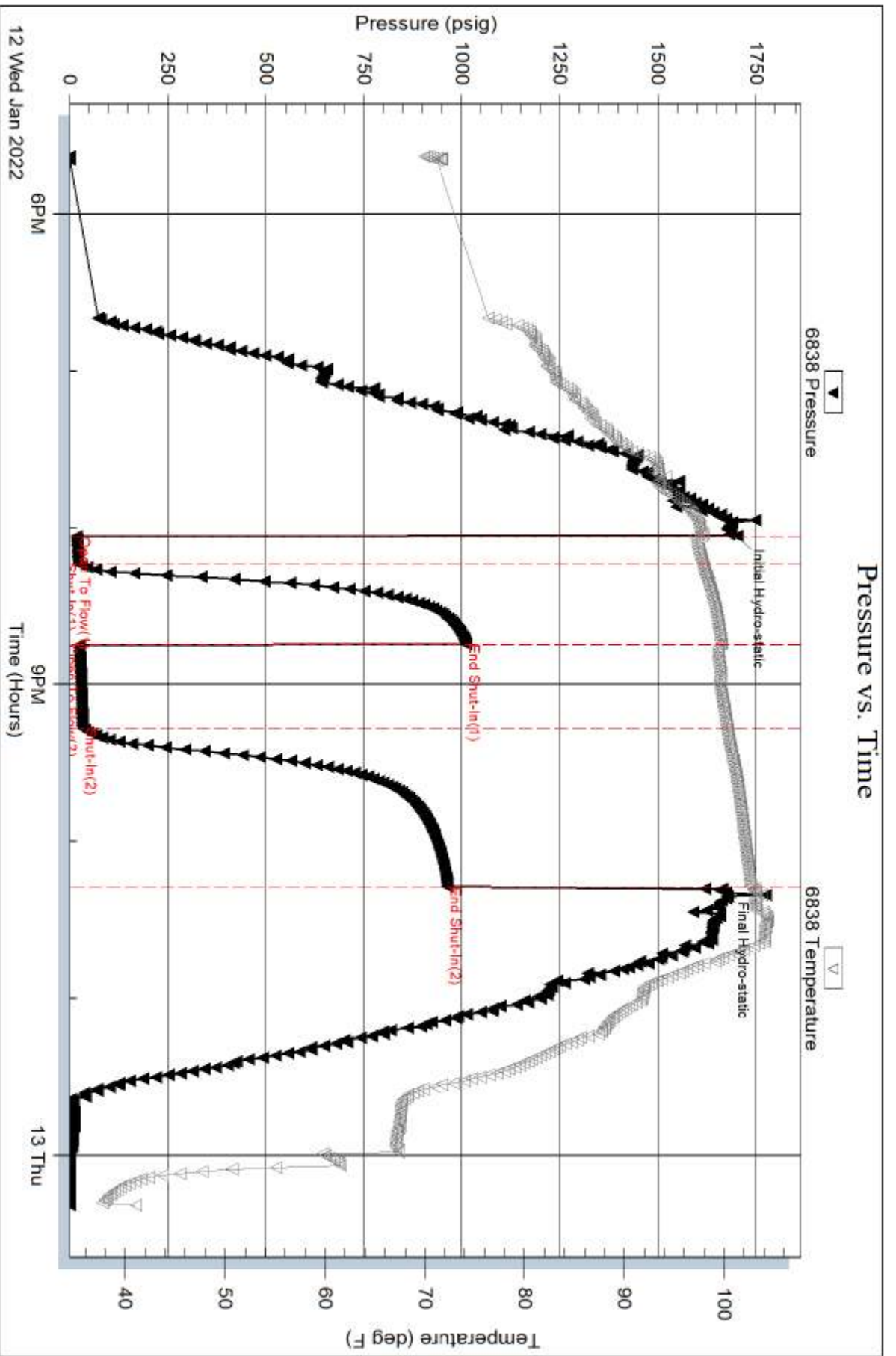
Length ft	Description	Volume bbl
20.00	Mud 100% Mud	0.098
0.00	Sampler 2000mL @50PSI 100%M	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 1#LCM



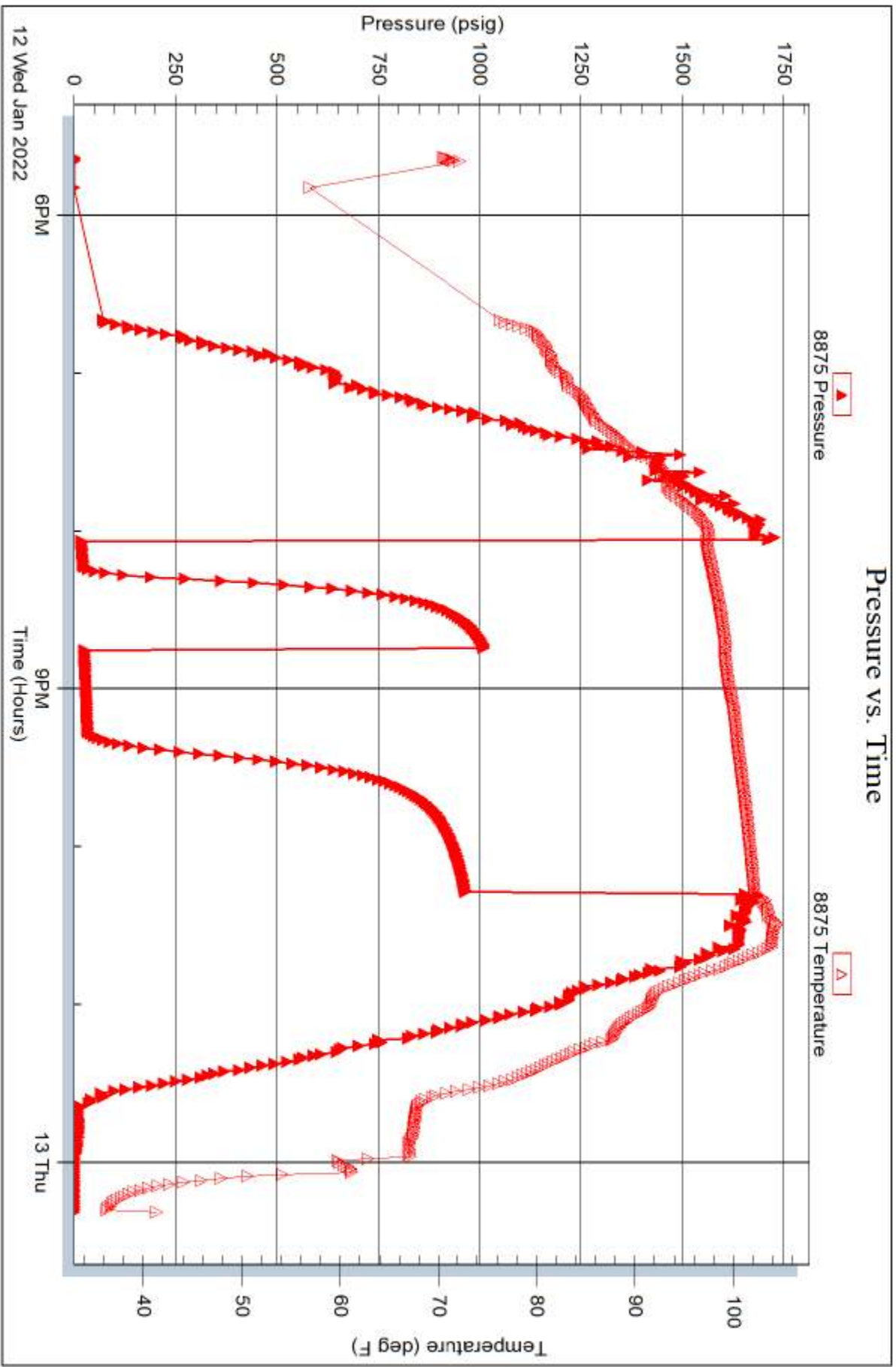
Serial #: 8875

Inside

Cholla Production LLC

Penney #2-14-15-20

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67864

Printed: 2022.01.13 @ 07:06:11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cholla Production LLC
 10390 Bradford Rd Suite 201
 ATTN: Jeff Lawler

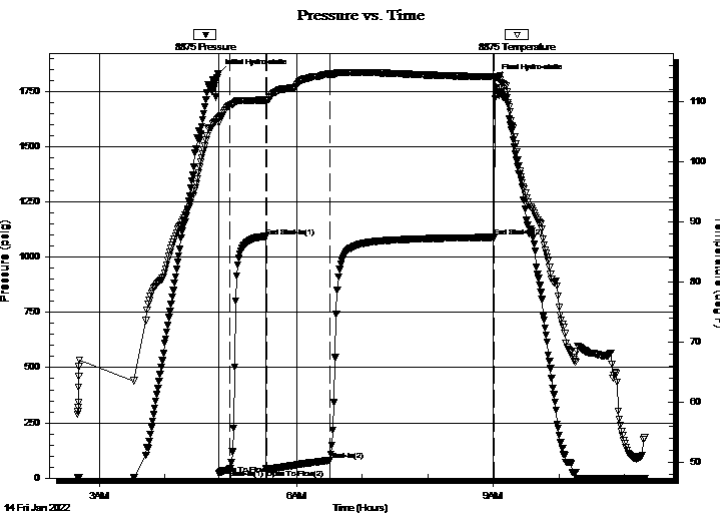
14-15S-20W Ellis KS
Penney #2-14-15-20
 Job Ticket: 67865 **DST#: 2**
 Test Start: 2022.01.14 @ 02:40:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:48:57
 Time Test Ended: 11:19:02
 Interval: **3687.00 ft (KB) To 3712.00 ft (KB) (TVD)**
 Total Depth: 3815.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2087.00 ft (KB)
 2079.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Outside
 Press@RunDepth: 80.97 psig @ 3688.00 ft (KB) Capacity: psig
 Start Date: 2022.01.14 End Date: 2022.01.14 Last Calib.: 2022.01.14
 Start Time: 02:40:01 End Time: 11:19:02 Time On Btm: 2022.01.14 @ 04:48:52
 Time Off Btm: 2022.01.14 @ 09:01:47

TEST COMMENT: 10 IF - Weak blow built to 3 3/4"
 30 ISI - Surface to 1/4"
 60-FF-Surface to BOB 45 mins Built to 15"
 150-FS-Surface to 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.26	107.14	Initial Hydro-static
1	18.83	106.38	Open To Flow (1)
11	37.72	109.31	Shut-In(1)
44	1093.05	110.19	End Shut-In(1)
45	38.89	110.18	Open To Flow (2)
102	80.97	114.52	Shut-In(2)
252	1089.63	114.10	End Shut-In(2)
253	1807.76	113.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	GMCO Emulsion 10%G 5%M 85%O	1.99
0.00	260 GIP 100%G	0.00
0.00	Sampler 1800mL Oil 100mL G 100mL Mud	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cholla Production LLC
10390 Bradford Rd Suite 201
ATTN: Jeff Lawler

14-15S-20W Ellis KS
Penney #2-14-15-20
Job Ticket: 67865 **DST#: 2**
Test Start: 2022.01.14 @ 02:40:00

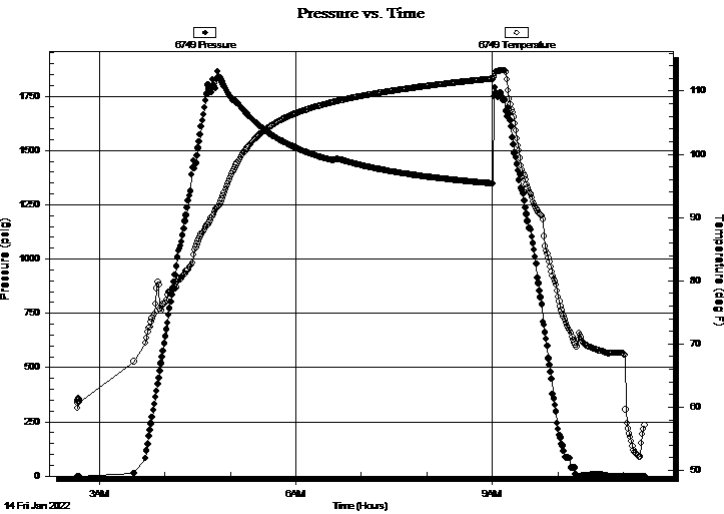
GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:48:57
Time Test Ended: 11:19:02
Interval: **3687.00 ft (KB) To 3712.00 ft (KB) (TVD)**
Total Depth: 3815.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84
Reference Elevations: 2087.00 ft (KB)
2079.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6749 Below (Straddle)

Press@RunDepth: psig @ 3717.00 ft (KB) Capacity: psig
Start Date: 2022.01.14 End Date: 2022.01.14 Last Calib.: 2022.01.14
Start Time: 02:40:01 End Time: 11:19:42 Time On Btm:
Time Off Btm:

TEST COMMENT: 10 IF - Weak blow built to 3 3/4"
30 ISI - Surface to 1/4"
60-FF-Surface to BOB 45 mins Built to 15"
150-FSI-Surface to 1/2"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
160.00	GMCO Emulsion 10%G 5%M 85%O	1.99
0.00	260 GIP 100%G	0.00
0.00	Sampler 1800mL Oil 100mL G 100mL Mud	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

14-15S-20W Ellis KS

10390 Bradford Rd Suite 201

Penney #2-14-15-20

Job Ticket: 67865

DST#: 2

ATTN: Jeff Lawler

Test Start: 2022.01.14 @ 02:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	GMCO Emulsion 10%G 5%M 85%O	1.990
0.00	260 GIP 100%G	0.000
0.00	Sampler 1800mL Oil 100mL G 100mL Mud	0.000

Total Length: 160.00 ft

Total Volume: 1.990 bbl

Num Fluid Samples: 0

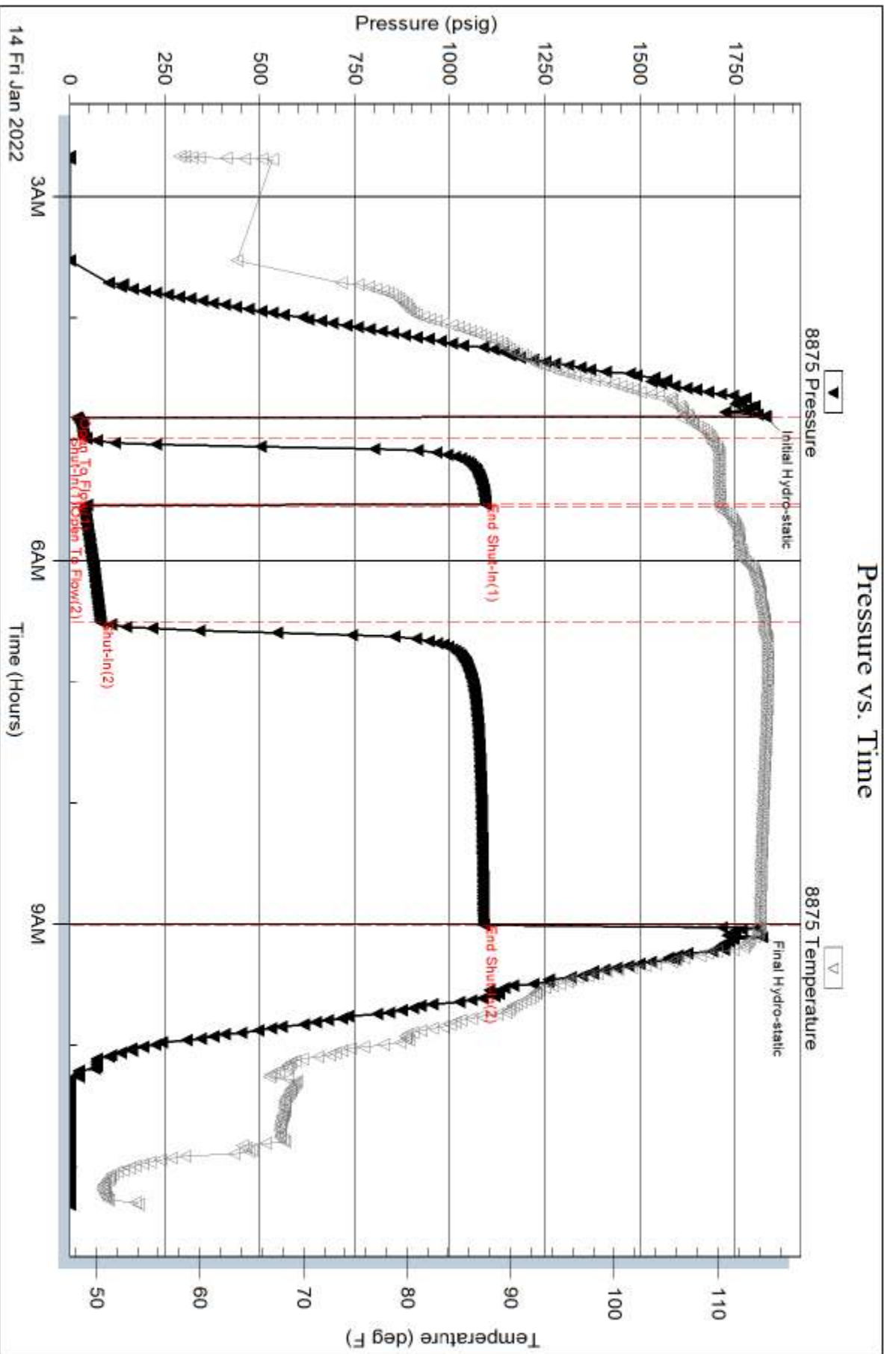
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM



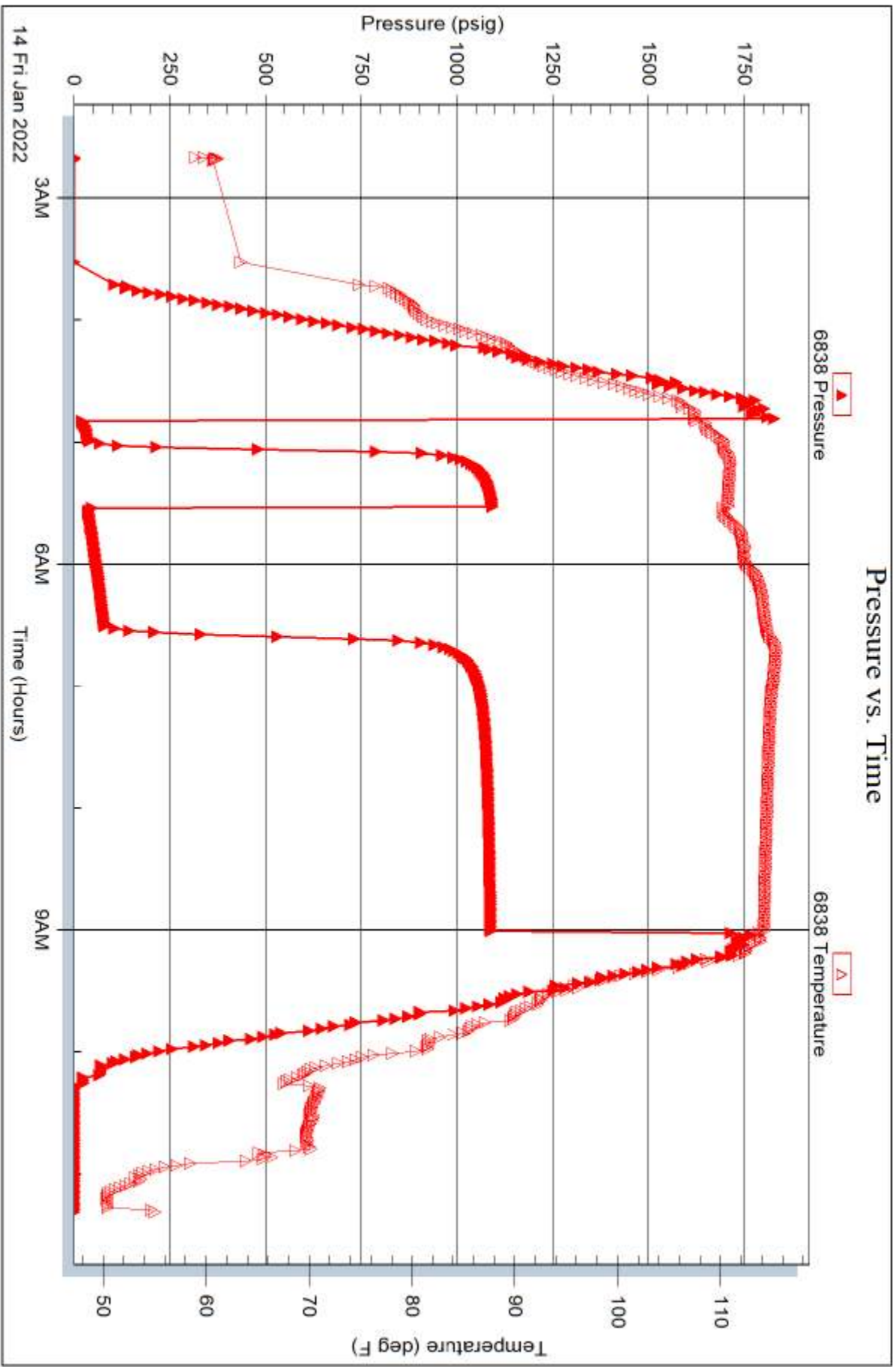
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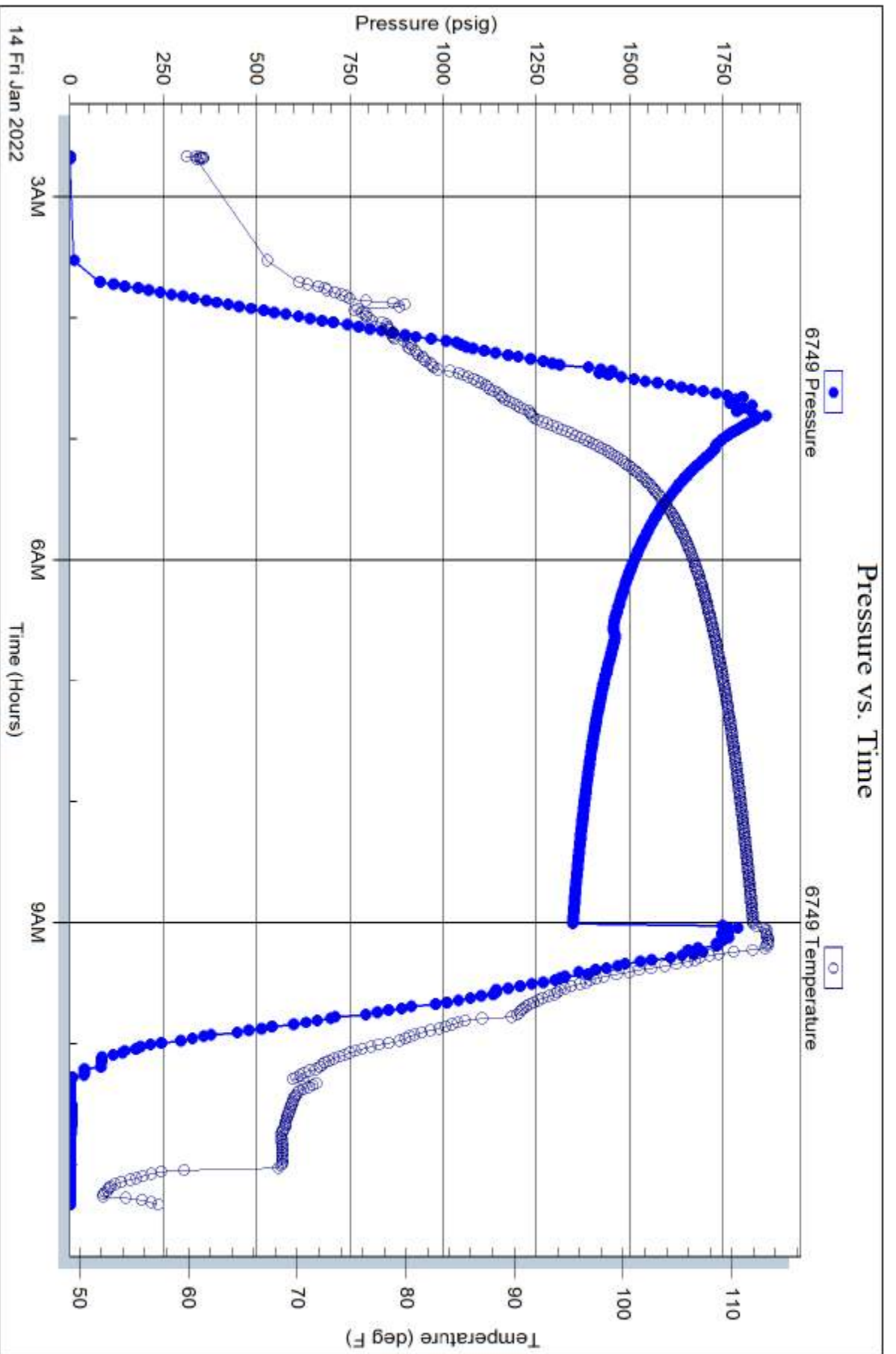
Inside

Cholla Production LLC

Penney #2-14-15-20

DST Test Number: 2







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cholla Production LLC
10390 Bradford Rd Suite 201
Littleton CO 802127+6416
ATTN: Jeff Lawler

14-15S-20W Ellis KS
Penney #2-14-15-20
Job Ticket: 67866 **DST#: 3**
Test Start: 2022.01.14 @ 12:23:00

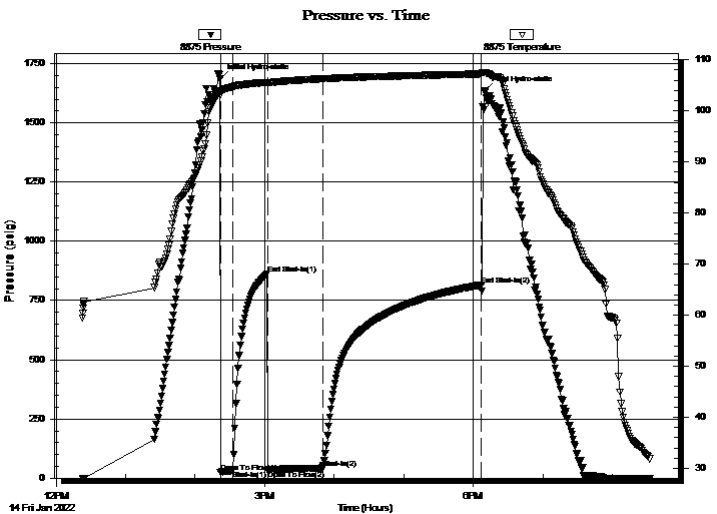
GENERAL INFORMATION:

Formation: **LKC C-E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:21:42
Time Test Ended: 20:32:42
Interval: **3378.00 ft (KB) To 3468.00 ft (KB) (TVD)**
Total Depth: 3815.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2087.00 ft (KB)
2079.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

Serial #: 8875 **Inside**
Press@RunDepth: 43.07 psig @ 3381.00 ft (KB) Capacity: psig
Start Date: 2022.01.14 End Date: 2022.01.14 Last Calib.: 2022.01.14
Start Time: 12:23:01 End Time: 20:32:42 Time On Btm: 2022.01.14 @ 14:21:37
Time Off Btm: 2022.01.14 @ 18:09:32

TEST COMMENT: 10-IF-Surface to 1"
30-ISI-No Return
45-FF-No Blow
135-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.34	103.95	Initial Hydro-static
1	23.91	103.12	Open To Flow (1)
11	32.12	104.73	Shut-In(1)
41	861.90	105.56	End Shut-In(1)
41	33.72	105.32	Open To Flow (2)
89	43.07	106.27	Shut-In(2)
226	816.04	107.24	End Shut-In(2)
228	1633.95	107.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05
0.00	Sampler 2000mL Mud	0.00

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Cholla Production LLC
 10390 Bradford Rd Suite 201
 Littleton CO 802127+6416
 ATTN: Jeff Lawler

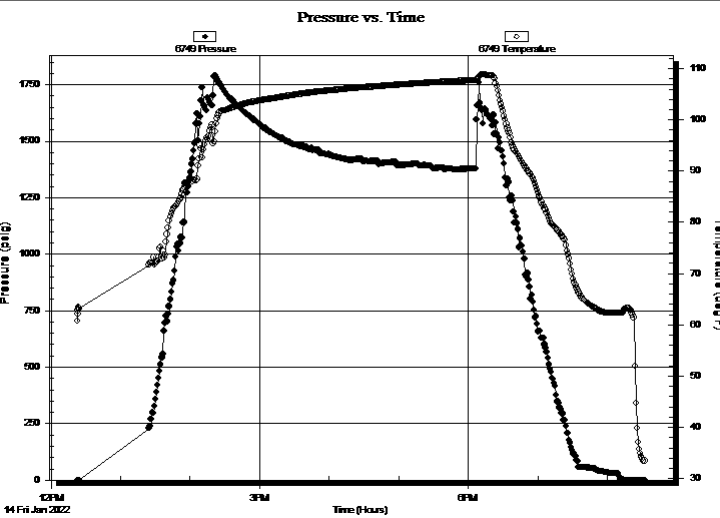
14-15S-20W Ellis KS
Penney #2-14-15-20
 Job Ticket: 67866 **DST#: 3**
 Test Start: 2022.01.14 @ 12:23:00

GENERAL INFORMATION:

Formation: **LKC C-E**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:21:42 Tester: Spencer J Staab
 Time Test Ended: 20:32:42 Unit No: 84
 Interval: **3378.00 ft (KB) To 3468.00 ft (KB) (TVD)** Reference Elevations: 2087.00 ft (KB)
 Total Depth: 3815.00 ft (KB) (TVD) 2079.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6749 Below (Straddle)
 Press@RunDepth: psig @ 3471.00 ft (KB) Capacity: psig
 Start Date: 2022.01.14 End Date: 2022.01.14 Last Calib.: 2022.01.14
 Start Time: 12:23:01 End Time: 20:32:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10-IF-Surface to 1"
 30-ISI-No Return
 45-FF-No Blow
 135-FSI-No Return



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

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05
0.00	Sampler 2000mL Mud	0.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

14-15S-20W Ellis KS

10390 Bradford Rd Suite 201
Littleton CO 802127+6416

Penney #2-14-15-20

Job Ticket: 67866

DST#: 3

ATTN: Jeff Lawler

Test Start: 2022.01.14 @ 12:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%M	0.049
0.00	Sampler 2000mL Mud	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

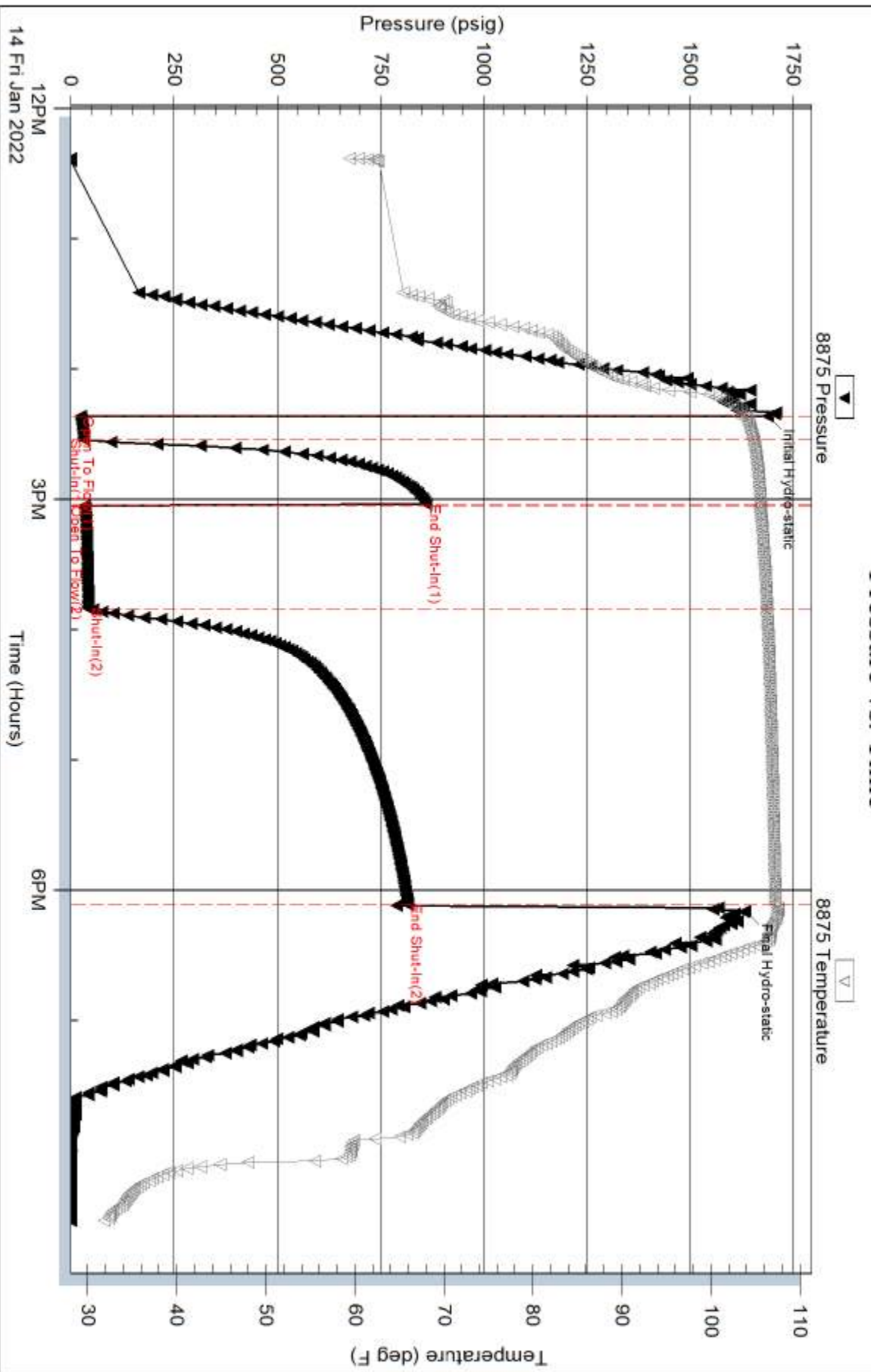
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

Pressure vs. Time



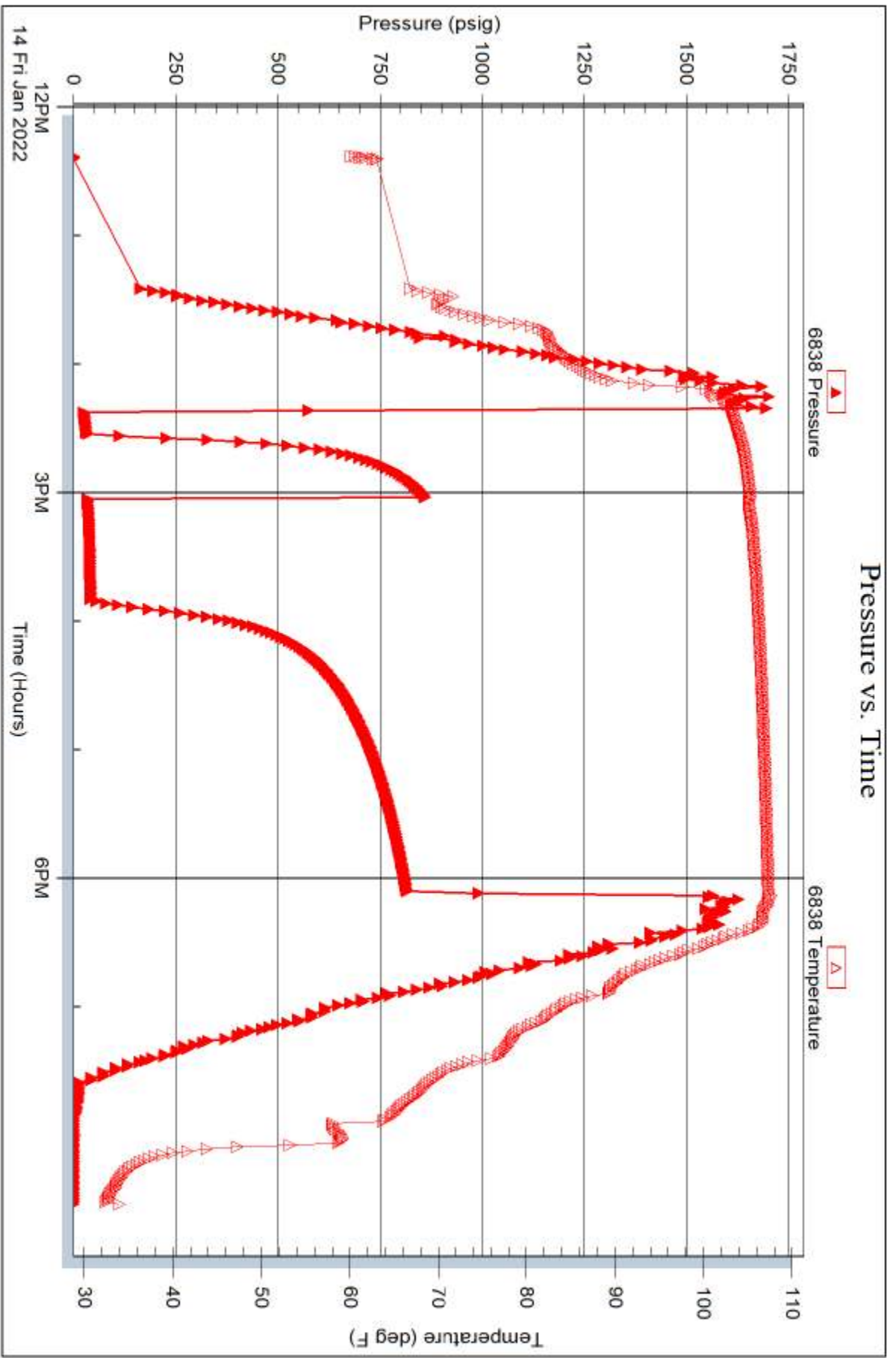
Serial #: 6838

Inside

Cholla Production LLC

Penney #2-14-15-20

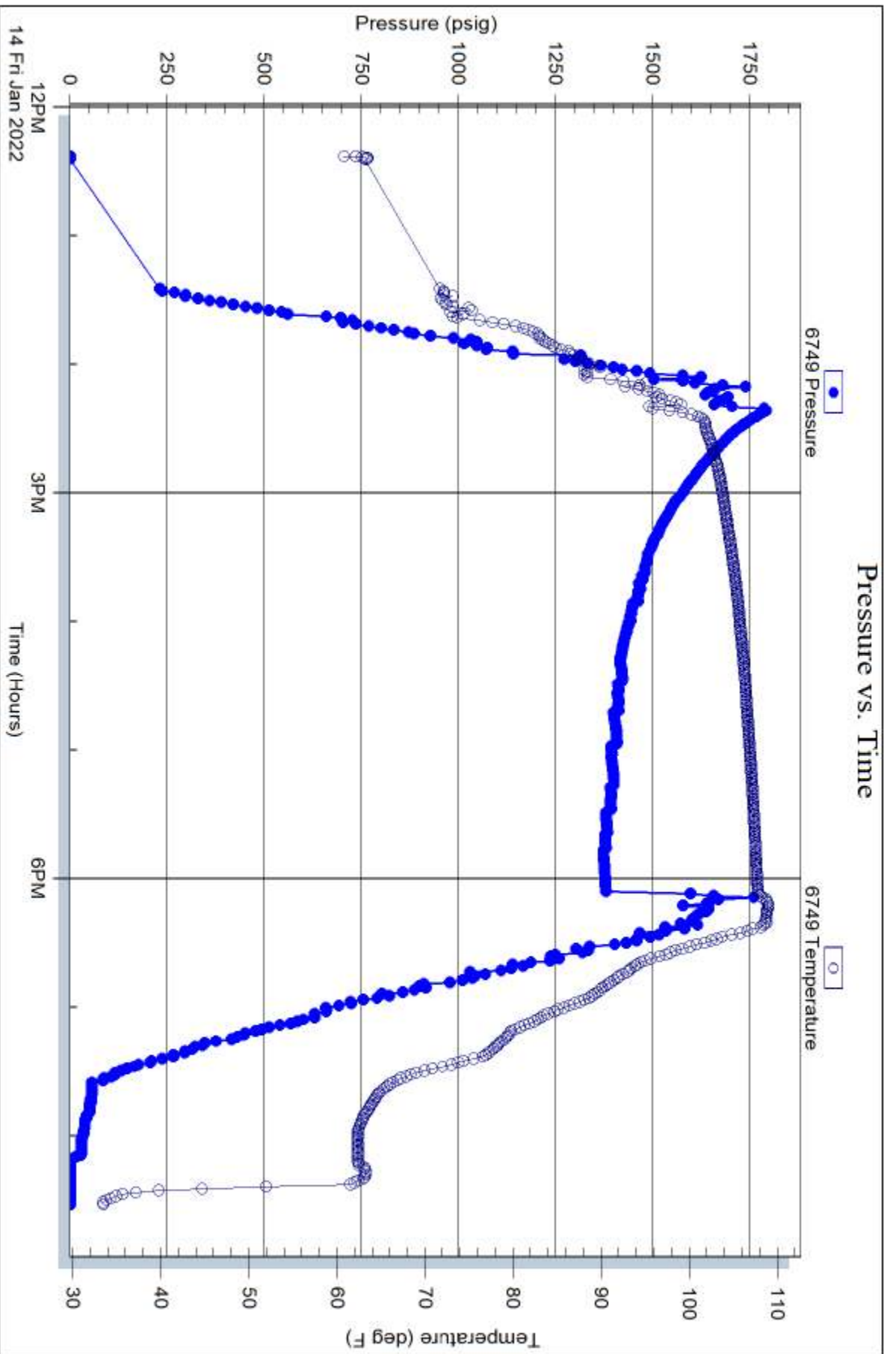
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 67866

Printed: 2022.01.15 @ 09:50:31



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 2690

Date	7-15-22	Sec.	14	Twp.	15	Range	20	County	Ellis	State	Ks	On Location		Finish	3:45pm
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	--------

Location **Antonino 3 W 25 4 W**

Lease	Pennsey	Well No.	2-14	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Discovery 4				
Type Job	TOP STAGE				
Hole Size	7 7/8	T.D.		Charge To	Cho 119 Prod LLC
Csg.	5 1/2	Depth	1308	Street	
Tbg. Size		Depth		City	State
Tool	1308	Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	275 Q m DC 1/4 flt
Meas Line		Displace	31		

EQUIPMENT

Pumptrk	18	No.	Cementer	Bill	Common	275 @ Q m DC
			Helper	Chris	Poz. Mix	
Bulktrk	1	No.	Driver	Jordan	Gel.	
			Driver	Doug	Calcium	

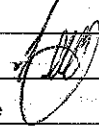
JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	75#
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	275
		Mileage	

FLOAT EQUIPMENT

		Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	

Pumptrk Charge	Prod String Top Stage
Mileage	21

X Signature 

Thanks

Tax	
Discount	
Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 2689

Date	Sec.	Twp.	Range	County	State	On Location	Finish
H/S-22	14	15	20	ELLIS	Ks		

Location ANTONINO 3W 3S 4 1/2 W

Lease	Well No	Owner
Penney	2-14	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.
Dis		

Type Job	Charge To
Long String	Cholla Prod LLC

Hole Size	T.D.	Charge To
7 7/8	3815	Cholla Prod LLC

Csg. Size	Depth	Street
5 1/2 15.5		

Tbg. Size	Depth	City	State

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

Cement Left in Csg.	Shoe Joint	Cement Amount Ordered
21, 23	21, 23	175M QPROC 590 10%

Meas Line	Displace	225M QPROC 500gal Flush 10ml KCL
	89	

EQUIPMENT

Pumptrk	No.	Cementer	Bill	Common
18		Helper		175 QPROC
Bulktrk	No.	Driver	Craig	Poz. Mix
1		Driver	Jordan	Gel.
Bulktrk	No.	Driver	Doug	Calcium
9		Driver		

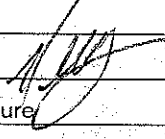
JOB SERVICES & REMARKS


Remarks:	Hulls
Rat Hole 30	Salt 14
Mouse Hole	Flow Seal KCL
Centralizers 15	Kol-Seal 750 #
Baskets	Mud CLR 48
D/V or Port Collar 1308 J+ 62	CFL-117 or CD110 CAF 38
Pipe set e 3810.4	Sand
Shoe J+ 21.23	Handling 196
Insert 3789.18 500 Flush	Mileage

FLOAT EQUIPMENT

Century 130at pump plug w/ 89 bbls	Guide Shoe
Land plug e 1300" float held	Centralizer 10
open DV tool - Circ 30 mins - Century	Baskets 2
275M	AFU Inserts
Century 130at	Float Shoe 1
RH 30	Latch Down 1
MIT 15	D.V. Tool - 1

2 Stage
Pumptrk Charge prod string bottom stage
Mileage 21

X Signature 

Thanks 

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 2636

Date	12-17-21	Sec.	14	Twp.	15	Range	20	County	Ellis	State	Ks	On Location		Finish	4:30PM
------	----------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	--------

Lease **Penney** Location **Antonino - 3W to 190th, 3S to Chetolah Gold**

Well No. **2-14-15-20** Owner **1W to Cattle yard, 3.6' W+SW to Cattle yard**
 Contractor **Discovery #4** To Quality Oilwell Cementing, Inc. **E into after Cattle yard**
 Type Job **Surface** You are hereby requested to rent cementing equipment and furnish
 cementer and helper to assist owner or contractor to do work as listed.

Hole Size **12 1/4"** T.D. **266'** Charge To **Cholla Production**

Csg. **8 5/8"** Depth **266'** Street

Tbg. Size Depth City State

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

Cement Left in Csg. **15'** Shoe Joint **15'** Cement Amount Ordered **160 80/20 3%CC 2%Gel**

Meas Line Displace **15 3/4 BLS**

EQUIPMENT

Pumptrk	16	No.	Cementer	David	Common	120/130
			Helper		Poz. Mix	30
Bulktrk	14	No.	Driver	Rick	Gel.	3
			Driver		Calcium	6
Bulktrk		No.	Driver			

JOB SERVICES & REMARKS

Remarks: **Cement did Circulate**

Rat Hole Flowseal

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

Handling **169**

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge **Surface**

Mileage ~~21~~ **21**

Signature **Ryan Jacobs**

Thanks

Tax

Discount

Total Charge

Scale 1:240 Imperial

Well Name: PENNEY #2-14-15-20
Surface Location: NE SE SW SE Sec. 14 - 15 - 20
Bottom Location:
API: 15-051-27016
License Number: 31819
Spud Date: 12/17/2021 Time: 8:30 AM
Region: ELLIS COUNTY KANSAS
Drilling Completed: 1/13/2022 Time: 3:12 PM
Surface Coordinates: 460' FSL & 1484' FEL
Bottom Hole Coordinates:
Ground Elevation: 2079.00ft
K.B. Elevation: 2087.00ft
Logged Interval: 2900.00ft To: 3816.00ft
Total Depth: 3815.00ft
Formation: LANSING-KANSAS CITY; CONGLOMERATE SAND
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

OPERATOR

Company: CHOLLA PRODUCTION, LLC.
Address: 10390 BRADFORD RD.
STE. 201
LITTLETON, CO 80127
Contact Geologist: EMILY HUNDLEY-GOFF
Contact Phone Nbr: (303) 623-4565
Well Name: PENNEY #2-14-15-20
Location: NE SE SW SE Sec. 14 - 15 - 20
API: 15-051-27016
Pool: KANSAS Field: POST ROCK NORTH
State: KANSAS Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.509733
Latitude: 38.741424
N/S Co-ord: 460' FSL
E/W Co-ord: 1484' FEL

LOGGED BY



Company: BIG CREEK CONSULTING, INC.
Address: 3504 DUNCAN ST
ST. JOE, MO 64507
Phone Nbr: (785) 259-3737
Logged By: GEOLOGIST Name: JEFF LAWLER

CONTRACTOR

Contractor: DISCOVERY DRILLING
Rig #: 4
Rig Type: MUD ROTARY
Spud Date: 12/17/2021 Time: 8:30 AM
TD Date: 1/13/2022 Time: 3:12 PM
Rig Release: 1/15/2022 Time: 5:45 PM

ELEVATIONS

K.B. Elevation: 2087.00ft
K.B. to Ground: 8.00ft

Ground Elevation: 2079.00ft

NOTES


DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING AND FURTHER EVALUATE ZONES OF INTEREST UPON COMPLETION.

RESPECTFULLY SUBMITTED,
JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	PENNEY #2-14-15-20				SW SE SE SE 14-15-20				NE SW SW 13-15-20				SW SE NE NE 23-15-20				C SW SW 14-15-20							
	KB 2087		GL 2079		KB 2052		KB 2050		KB 2074		KB 2127													
	LOG TOPS		SAMPLE TOPS		LOGS		LOG		SMPL.		COMP. CARD		LOG		SMPL.		PLUGGING REPORT		LOG		SMPL.			
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
ANHYDRITE TOP	1317	770	1318	769	1272	780	- 10	- 11	1275	775	- 5	- 6	1300	774	- 4	- 5	1369	758	+ 12	+ 11				
BASE	1360	727	1362	725	1316	736	- 9	- 11					1339	735	- 8	- 10	1408	719	+ 8	+ 6				
TOPEKA	3071	-984	3073	-986	3022	-970	- 14	- 16	3026	-976	- 8	- 10	3046	-972	- 12	- 14	3127	-1000	+ 16	+ 14				
HEEBNER SHALE	3348	-1261	3345	-1258	3295	-1243	- 18	- 15	3304	-1254	- 7	- 4	3318	-1244	- 17	- 14	3403	-1276	+ 15	+ 18				
TORONTO	3371	-1284	3371	-1284	3317	-1265	- 19	- 19	3326	-1276	- 8	- 8	3342	-1268	- 16	- 16	3424	-1297	+ 13	+ 13				
LKC	3394	-1307	3394	-1307	3339	-1287	- 20	- 20	3348	-1298	- 9	- 9	3364	-1290	- 17	- 17	3447	-1320	+ 13	+ 13				
BKC	3636	-1549	3639	-1552	3585	-1533	- 16	- 19	3594	-1544	- 5	- 8	3610	-1536	- 13	- 16	3694	-1567	+ 18	+ 15				
MARMATON	3657	-1570	3658	-1571	3616	-1564	- 6	- 7	3638	-1588	+ 18	+ 17	3638	-1564	- 6	- 7	3764	-1637	+ 67	+ 66				
PAWNEE	3694	-1607	3695	-1608	3627	-1575	- 32	- 33	3654	-1604	- 3	- 4	3666	-1592	- 15	- 16								
CONGLOMERATE SAND					3638	-1586			3684	-1634														
ARBuckle																	3808	-1681						
GRANITE WASH	3729	-1642	3743	-1656																				
PRECAMBRIAN					3667	-1615			3742	-1692			3685	-1611										
TOTAL DEPTH	3816	-1729	3815	-1728	3770	-1718		- 10	3774	-1724	- 5	- 4	3750	-1676		- 52	3814	-1687	- 42	- 41				

DSDT #1 LKC H - J 3517' - 3592'

	DRILL STEM TEST REPORT							
	<table style="width: 100%;"> <tr> <td style="width: 50%;">Cholla Production LLC</td> <td style="width: 50%; text-align: right;">14-15S-20W Ellis KS</td> </tr> <tr> <td>10390 Bradford Rd Suite 201</td> <td style="text-align: right;">Penney #2-14-15-20</td> </tr> <tr> <td>ATTN: Jeff Lawler</td> <td style="text-align: right;">Job Ticket: 67864 DST#: 1</td> </tr> <tr> <td></td> <td style="text-align: right;">Test Start: 2022.01.12 @ 17:38:00</td> </tr> </table>	Cholla Production LLC	14-15S-20W Ellis KS	10390 Bradford Rd Suite 201	Penney #2-14-15-20	ATTN: Jeff Lawler	Job Ticket: 67864 DST#: 1	
Cholla Production LLC	14-15S-20W Ellis KS							
10390 Bradford Rd Suite 201	Penney #2-14-15-20							
ATTN: Jeff Lawler	Job Ticket: 67864 DST#: 1							
	Test Start: 2022.01.12 @ 17:38:00							

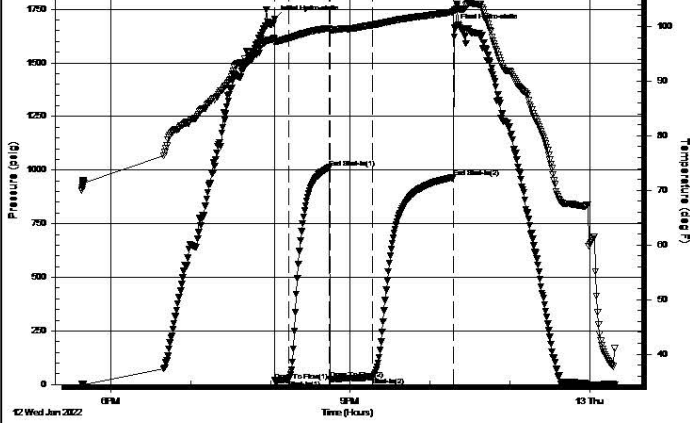
GENERAL INFORMATION:

Formation: LKC H-J	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Spencer J Staab
Time Tool Opened: 20:03:17	Unit No: 84
Time Test Ended: 00:19:07	Reference Elevations: 2087.00 ft (KB)
Interval: 3517.00 ft (KB) To 3592.00 ft (KB) (TVD)	2079.00 ft (CF)
Total Depth: 3592.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 6838 Inside	Capacity: psig
Press@RunDepth: 33.38 psig @ 3520.00 ft (KB)	Last Calib.: 2022.01.13
Start Date: 2022.01.12 End Date: 2022.01.13	Time On Btm: 2022.01.12 @ 20:03:07
Start Time: 17:38:01 End Time: 00:19:07	Time Off Btm: 2022.01.12 @ 22:18:07

TEST COMMENT: 10-IF-Surface to 1.25"
30-IS-No Return
30-FF-No Blow
60-FS-No Return

Pressure vs. Time		PRESSURE SUMMARY			
Time	Pressure	Temp	Annotation		



(Min.)	(psig)	(deg F)	
0	1704.00	97.69	Initial Hydro-static
1	18.08	97.03	Open To Flow (1)
11	22.98	97.82	Shut-In(1)
42	1011.97	99.70	End Shut-In(1)
42	25.08	99.46	Open To Flow (2)
74	33.38	100.28	Shut-In(2)
135	965.32	102.66	End Shut-In(2)
135	1663.70	102.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100% Mud	0.10
0.00	Sampler 2000mL @50PSI 100%M	0.00

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 67864

Printed: 2022.01.13 @ 07:06:10

(STRADDLE) DST #2 PAWNEE 3687' - 3712'

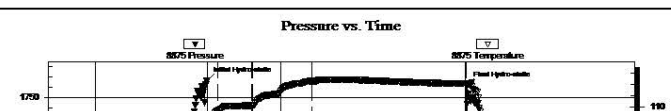
<p>TRILOBITE TESTING, INC</p>	DRILL STEM TEST REPORT	
	Cholla Production LLC	14-15S-20W Ellis KS
	10390 Bradford Rd Suite 201	Penney #2-14-15-20
	ATTN: Jeff Lawler	Job Ticket: 67865 DST#: 2 Test Start: 2022.01.14 @ 02:40:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:48:57
 Time Test Ended: 11:19:02
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Interval: **3687.00 ft (KB) To 3712.00 ft (KB) (TVD)**
 Total Depth: 3815.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 2087.00 ft (KB)
 2079.00 ft (CF)
 KB to GR/CF: 8.00 ft

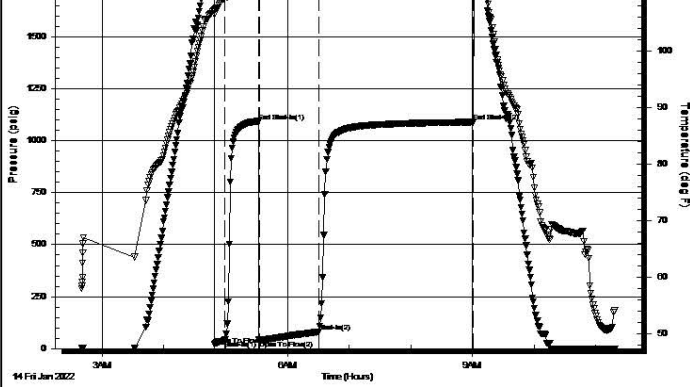
Serial #: 8875 **Outside**
 Press@RunDepth: 80.97 psig @ 3688.00 ft (KB) Capacity: psig
 Start Date: 2022.01.14 End Date: 2022.01.14 Last Calib.: 2022.01.14
 Start Time: 02:40:01 End Time: 11:19:02 Time On Btm: 2022.01.14 @ 04:48:52
 Time Off Btm: 2022.01.14 @ 09:01:47

TEST COMMENT: 10 IF - Weak blow built to 3 3/4"
 30 ISI - Surface to 1/4"
 60-FF-Surface to BOB 45 mins Built to 15"
 150-FSI-Surface to 1/2"



PRESSURE SUMMARY

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



0	1831.26	107.14	Initial Hydro-static
1	18.83	106.38	Open To Flow (1)
11	37.72	109.31	Shut-In(1)
44	1093.05	110.19	End Shut-In(1)
45	38.89	110.18	Open To Flow (2)
102	80.97	114.52	Shut-In(2)
252	1089.63	114.10	End Shut-In(2)
253	1807.76	113.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	GMCO Emulsion 10%G 5%M 85%O	1.99
0.00	260 GIP 100%G	0.00
0.00	Sampler 180mL Oil 100mL G 100mL Mic0.00	

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcfd)
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Trilobite Testing, Inc

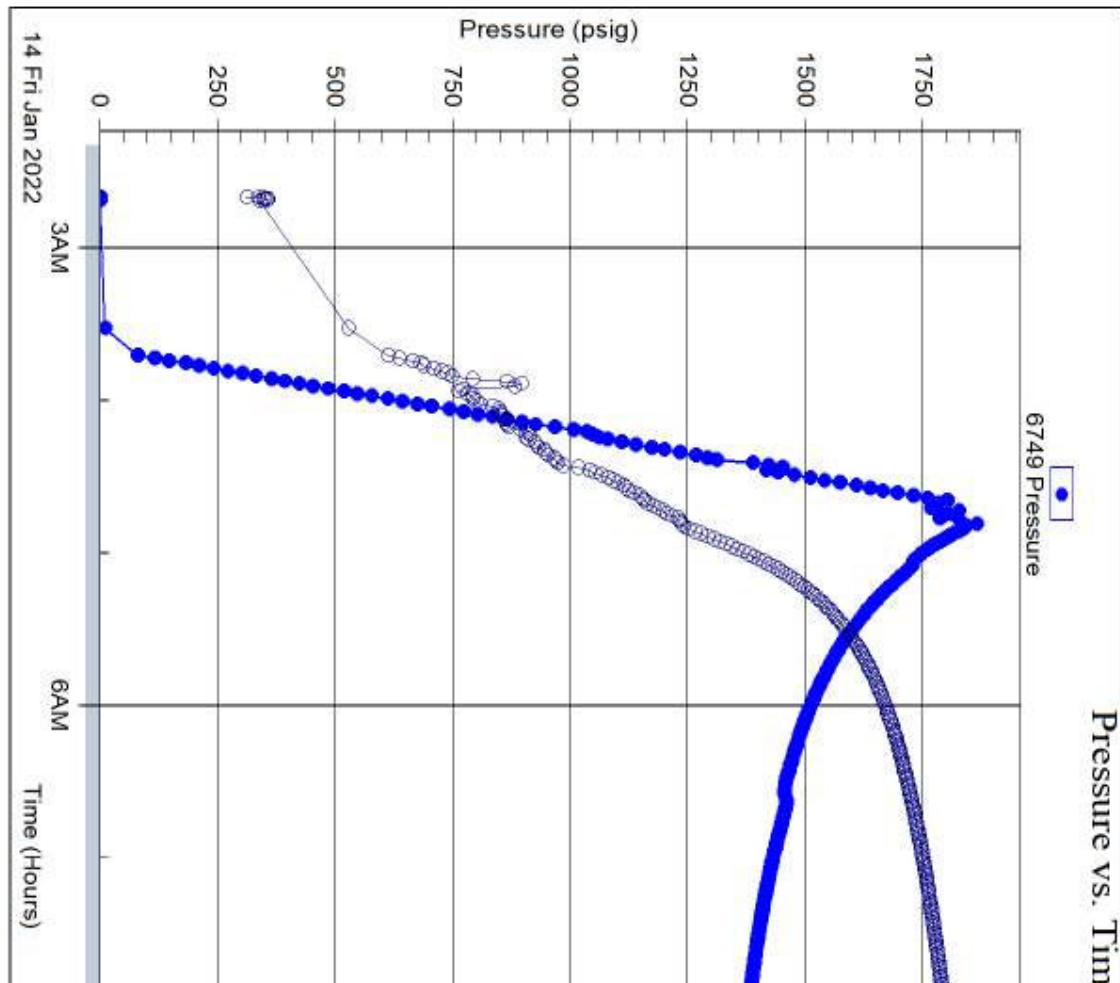
Ref. No: 67865

Printed: 2022.01.14 @ 13:38:50

(STRADDLE) DST #2 PAWNEE 3687' - 3712' BOTTOM PACKER CHART

Trilobite Testing, Inc

Ref. No: 67865

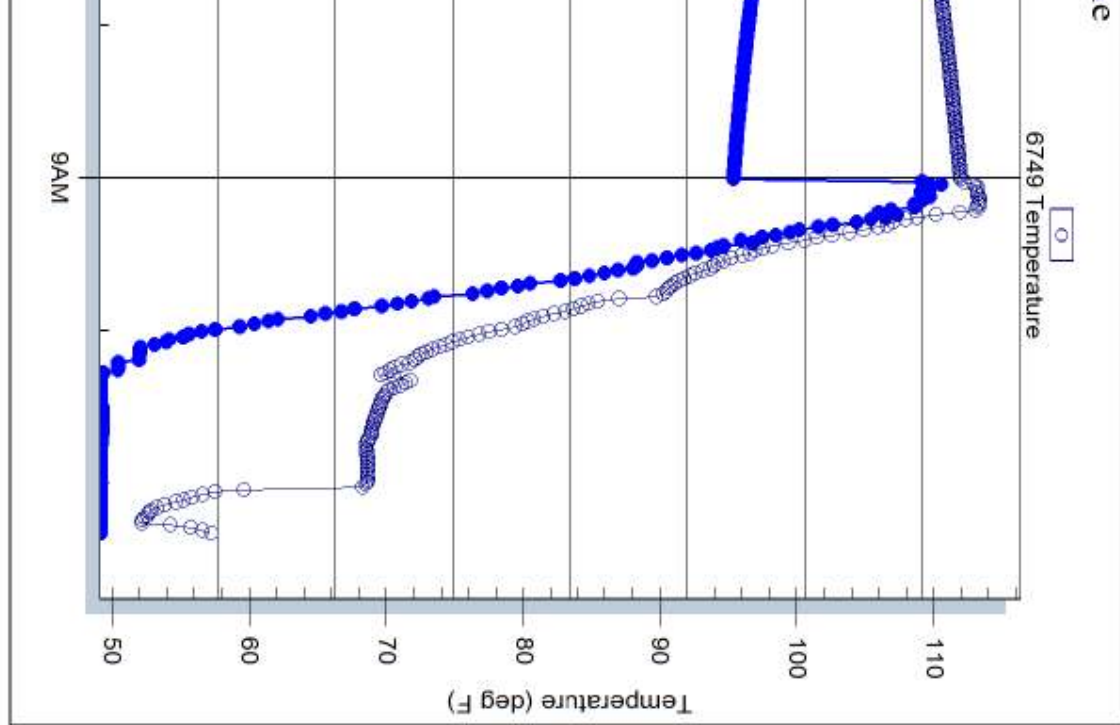


Serial #: 6749

Below (Straddle) Production LLC

Penney #2-14-

Pressure vs. Tim



Printed: 2022.01.14 @ 13:43:11

15:20

DST Test Number: 2

(STRADDLE) DST #3 LKC A - E 3378' - 3468'

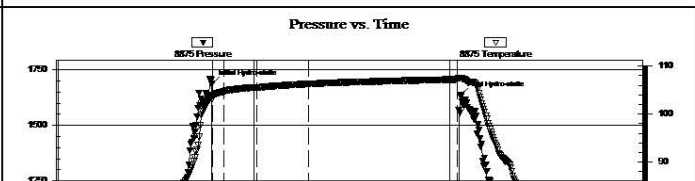
	DRILL STEM TEST REPORT	
	Cholla Production LLC 10390 Bradford Rd Suite 201 Littleton CO 802127+6416 ATTN: Jeff Lawler	14-15S-20W Ellis KS Penney #2-14-15-20 Job Ticket: 67866 DST#: 3 Test Start: 2022.01.14 @ 12:23:00

GENERAL INFORMATION:

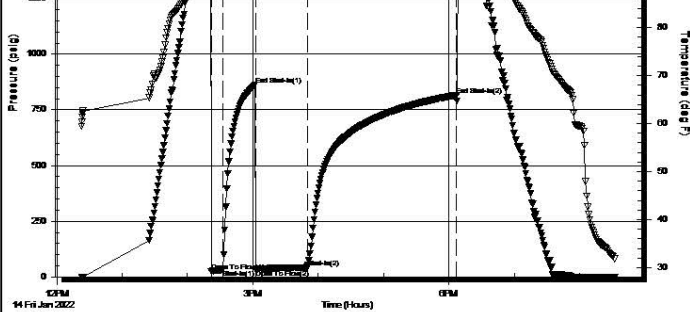
Formation: LKC C-E	Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 14:21:42	Time Test Ended: 20:32:42	Tester: Spencer J Staab
Interval: 3378.00 ft (KB) To 3468.00 ft (KB) (TVD)	Hole Diameter: 7.88 inches	Unit No: 84
Total Depth: 3815.00 ft (KB) (TVD)	Hole Condition: Fair	Reference Elevations: 2087.00 ft (KB)
		2079.00 ft (CF)
		KB to GR/CF: 8.00 ft

Serial #: 8875	Inside				
Press@RunDepth: 43.07 psig @	3381.00 ft (KB)	Capacity:		psig	
Start Date: 2022.01.14	End Date: 2022.01.14	Last Calib.:	2022.01.14		
Start Time: 12:23:01	End Time: 20:32:42	Time On Btm:	2022.01.14 @ 14:21:37		
		Time Off Btm:	2022.01.14 @ 18:09:32		

TEST COMMENT: 10-IF-Surface to 1"
 30-ISI-No Return
 45-FF-No Blow
 135-FSI-No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.34	103.95	Initial Hydro-static
1	23.91	103.12	Open To Flow (1)
11	32.12	104.73	Shut-In(1)



41	861.90	105.56	End Shut-In(1)
41	33.72	105.32	Open To Flow (2)
89	43.07	106.27	Shut-In(2)
226	816.04	107.24	End Shut-In(2)
228	1633.95	107.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05
0.00	Sampler 2000mL Mud	0.00

Gas Rates

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

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 67866

Printed: 2022.01.15 @ 09:50:30

ROCK TYPES

Cht vari	shale, grn	shale, red	Lsongl
Dolsec	shale, gry	Shcol	
Lmst fw7>	Carbon Sh	Igne	

OTHER SYMBOLS

MISC	DST
Daily Report	DST Int
Digital Photo	DST alt
Document	
Folder	
Link	
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #1		Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3
ROP (min/ft)	Gamma (API)						Cal (in)
1:240 Imperial							1:240 Imperial
0	ROP (min/ft)	5					
0	Gamma (API)	150					
6	Cal (in)	16					
		3030					
<p>1' DRILL TIME THROUGH ANHYDRITE FROM 1300' - 1380' 10' DRILL TIME FROM 3050' - RTD 10' WET/DRY SAMPLES FROM 3150' - RTD</p>							

GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 3100' - RTD

8 5/8" SURFACE PIPE SET @ 265' SURVEY 3/4 deg.

ANHYDRITE TOP 1318' (+769) E-LOG 1317' (+770)
ANHYDRITE BASE 1362' (+725) E-LOG 1360' (+727)

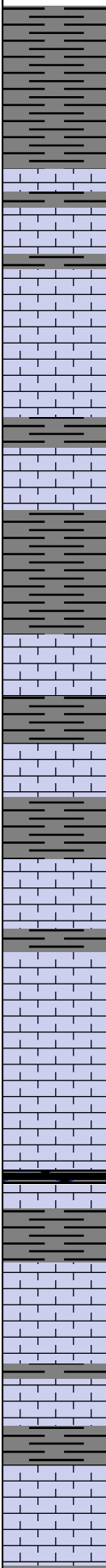
TOPEKA 3073' (-986) E-LOG 3071' (-984)

3040
3050
3060
3070
3080
3090
3100
3110
3120
3130
3140
3150
3160
3170
3180
3190
3200
3210
3220
3230
3240
3250

0
0
6

ROP (min/ft)
Gamma (API)
Cal (in)

5
150
16



Sh- Gray Maroon, semi-waxy, gritty & earthy

Lm- Cream Off White, VF-FXLN, mix of granular & sl fsl w/ sctrd XLN porosity, some cherty Ls w/ min. vis. porosity, all barren

Sh- Gray Maroon Green, A/A w/ calcareous & some arenaceous

Lm- Buff Cream VFXLN, dense tight cherty Ls w/ min. vis. porosity, sl fsl, barren

Lm- Cream Buff, VF-FXLN, dnse, well cemented, & tight w/ sctrd XLN & fn vuggy porosity, barren

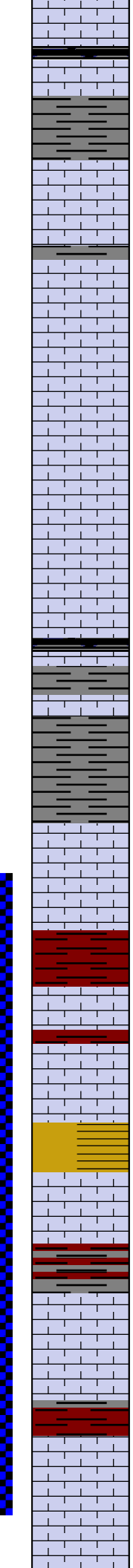
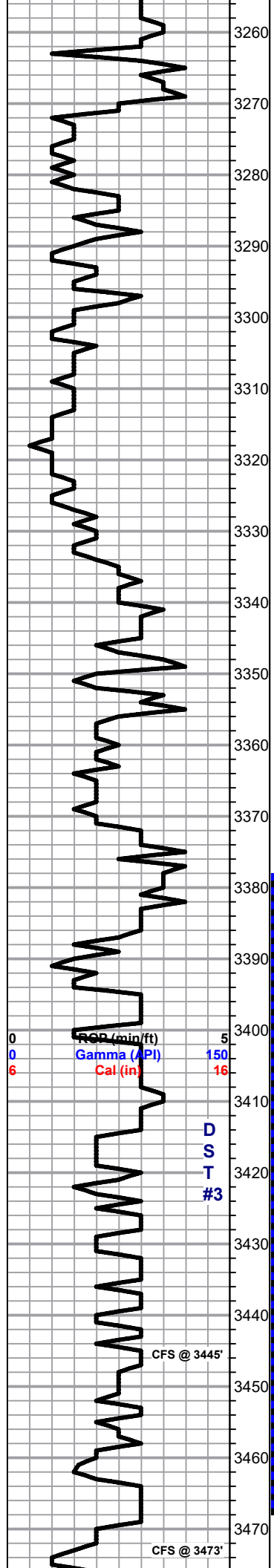
Lm- Cream Buff, FXLN, fsl, well cemented & tight w/ sctrd XLN porosity, some soft white chalk, barren

Lm- Cream Buff, FXLN, fsl, mostly granular, sl dolomitic w/ sctrd XLN porosity, barren

Lm- Cream Buff, FLXN, fsl, mix of granular & semi-sandy w/ sctrd XLN porosity, & VFXLN, tight cherty Ls w/ no vis. porosity, some soft white chalk, barren

Lm- Cream Off White, FXLN, massive & sl granular, fsl w/ fusulinids, dense XLN porosity, barren

Lm- Cream Off White, VFXLN, dense, well cemented & tight w/ poor vis. porosity, barren



Sh- Black Maroon, fissile & carbonaceous, gritty & earthy

Lm- Cream Off White, FXLN, fsl & sl oolitic, loosely cemented & semi-crumbley, massive w/ sctrd XLN & some sctrd fn vuggy porosity, sl chalky in part, barren

Lm- Cream, VFXLN, dns & tight w/ poor vis. porosity, sl cherty, barren

Lm- Tan, FXLN, sl castic, high-energy w/ fsl fragments, dense XLN porosity, barren

Lm- Buff Cream, FXLN, fsl, massive, granular, well cemented w/ dense XLN porosity throughout, barren, much soft white chalk

Lm- A/A w/ influx of soft white chalk

HEEBNER 3345' (-1258) E-LOG 3348' (-1261) Sh- Black Maroon, fissile & carbonaceous, gritty & soft

Sh- Gray Green, soft & calcareous, some argillaceous clumps

TORONTO 3371' (-1284) E-LOG 3371' (-1284) Lm- Cream Off White, FXLN, sl fsl, loosely cemented, chalky in part, mottled, sctrd to dense XLN porosity, barren

Lm- Cream, VF-FXLN, dense & well cemented, tight w/ sctrd XLN porosity, sctrd mottling

Sh- Maroon Green, gritty & earthy, argillaceous clumps

LKC 3394' (-1307) E-LOG 3394' (-1307) Lm- Off White, VF-FXLN, dense & well cemented, sl fsl, mostly tight w/ sctrd XLN porosity, some cryptoXLN cherty Ls, all barren

Lm- Cream Buff, VF-FXLN, dense & tight, sl fsl, sctrd XLN porosity, barren

Lm- Cream Off White, VF-FXLN, sl fsl, mostly cherty Ls w/ sctrd XLN porosity, vry clean & barren

Lm- White Off White, FXLN, fsl & oolitic, mostly tight w/ sctrd XLN porosity, a few pcs, w/ sctrd ppt interoolite porosity, SCTRDRK STN, NSFO, NO ODR

Lm- Cream Off White, A/A w/ a few pics w/ BLK DEAD OIL STN, NSFO, NO ODR

Lm- Cream Buff Off White, FXLN, sl fsl, sctrd XLN porosity, much soft white chalk, barren, FEW PCS OF MUDSTONE W/ DENSE VRY FN PPT POROSITY, SCTRDRK STN, NSFO, NO ODR, OILY SHEEN

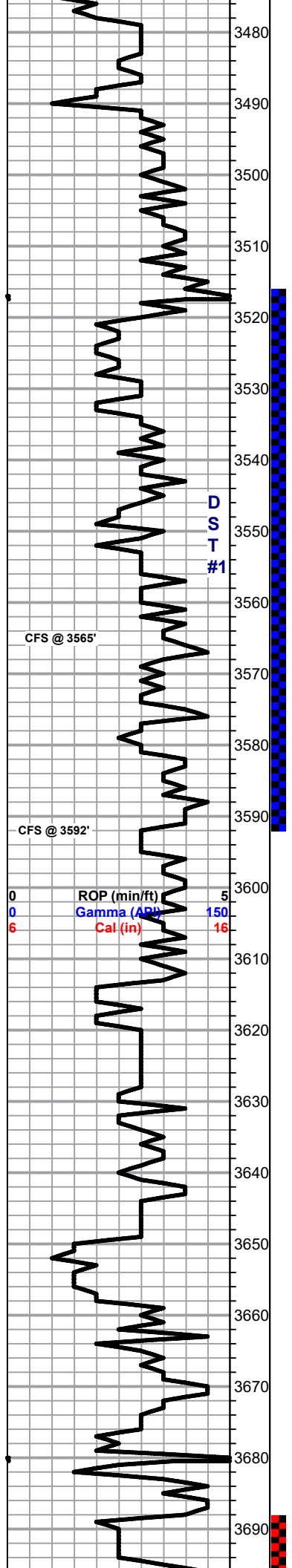
(STRADDLE)
 DST #3 LKC A-C
 3378' - 3468'
 10-30-45-135

CHART BELOW

10' MUD
 SAMPLE
 CHAMBER: 2K mL
 MUD

IFP: 23-32#
 FFP: 33-43#
 SIP: 861-816#
 BHT: 107 deg.

DST 3 C...



Lm- Cream Off White, FXLN, sl fsl & oolitic, poorly dev. w/ sctrd to dense XLN porosity, barren some dolomitic Ls w/ consistent microXLN porosity

A/A w/ White fresh bedded vitreous chert

A/A w/ soft crumbley dolomitic Ls & chert A/A

Sh- Black Gray Green, fissile & carbonaceous, slick slivers, semi-waxy

● Lm- Off White, FXLN, mix of well & loosley cemented dolomitic Ls w/ consistent microXLN porosity throughout, SCTRD LT STN, NSFO, TR ODR

Sh- Gray Green Maroon, sl fsl & pebbly, silty, gritty & earthy

● Lm- Off White, FXLN, fsl, well cemented w/ sctrd to dense XLN porosity, possible fracturing?, SCTRD DRK STN, TR HVY OIL, TR ODR

Sh- Gray Maroon, sl calcareous, dense & waxy

● Lm- White Cream, FXLN, fsl & oolitic mix, most mod. well dev. w/ dense XLN & sctrd fn ppt interoolite porosity, SCTRD DRK STN, OILY SHEEN, TR FO, WK ODR, SLW STRM WET CUT, LT YLW FLOR., several pcs less fsl w/ consistent mirco XLN porosity throughout, SUB-SAT STN, NSFO, FLOR/CUT A/A, some cherty Ls w/ sctrd XLN & fn ppt interoolite porosity, MOSTLY BARREN, FEW PCS W/ SCTRD DRK STN A/A

Lm- Cream Off White, VF-FXLN, tight mix of cherty Ls w/ min. vis. porosity, & sl dolomitic Ls w/ consistent microXLN porosity, all vry clean & barren

Lm- A/A w/ influx of sl fsl cherty Ls w/ sctrd to dense microXLN porosity, barren

Lm- Cream Off White, FXLN, sl fsl, mostly tight w/ sctrd XLN porosity, vry clean & barren

BKC 3639' (-1552) E-LOG 3636' (-1549) Sh- Gray Maroon, soft & calcareous, gritty & earthy

Sh- Gray Maroon Green, semi-waxy, calcareous

MARMATON 3658' (-1571) E-LOG 3657' (-1570) Dolomite Lm- Off White, mix of FXLN, massive, consistent micro XLN porosity throughout, gritty, SCTRD LT STN, NSFO, NO ODR, LT YLLW FLOR, NO CUT, & sl fsl Lm w/ sctrd XLN porosity, barren

Lm- Cream Off White, FXLN, fsl & sl oolitic, mostly tight w/ sctrd XLN & clear replacement cementation, barren

Sh- Gray Green, waxy, dense, few sl fsl

○ Conglomerate- various dark colored Ls, all mostly tight w/ min. vis. porosity, 1-2 pcs of tan cherty Ls w/ rare sctrd fn ppt porosity, DRK EDGE STN, NSFO, NO ODR, WK YLW FLOR., WK CUT

STRAP -0.03'
SURVEY 3/4 deg.

DST #1 LKC H-J
3517' - 3592'
10-30-60

20' MUD

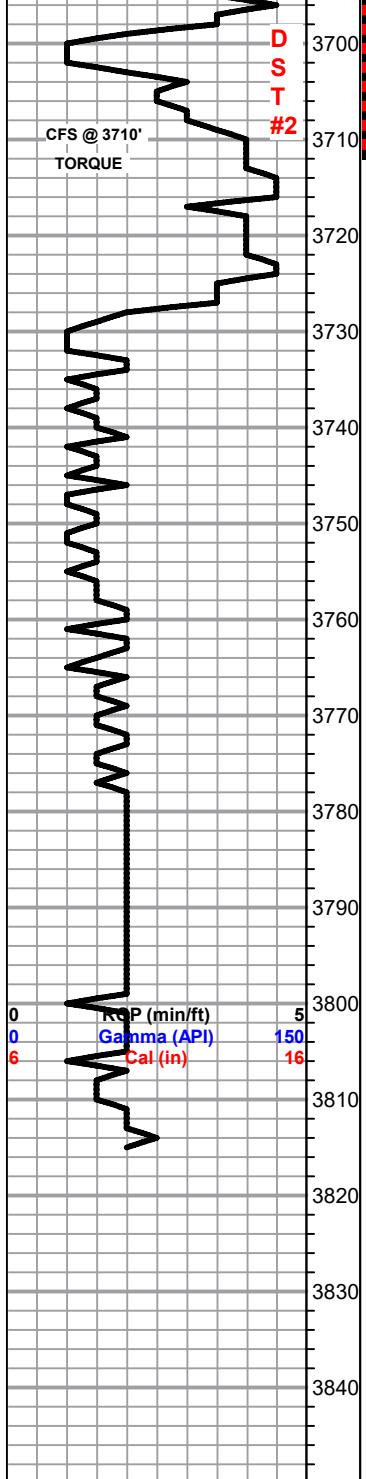
SAMPLE
CHAMBER:
2K mL MUD

IFP: 18-22#
FFP: 25-33#
SIP: 1011-965#
BHT: 102 deg.

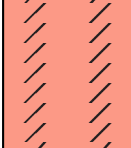
SHORT TRIP @
3565'

DST #2 PAWNEE
(STRADDLE)
3687' - 3712'
10-30-60-150

260' GIP
160' GSY MCO
EMULSION



**D
S
T
#2**



PAWNEE 3695' (-1608) E-LOG 3694' (-1607) Dolomite- Cream, FXLN, well cemented, consistent microXLN porosity throughout, SUB-SAT LT DRK STN, SL TR FO, TR ODR, BRT YLW FLOR, NO CUT

Chert- Milky White Salmon, mix of gritty dolomitic chert w/ consistent microXLN porosity throughout SCTR D LT STN, NSFO, NO ODR, SEVERAL PCS W/ BLK DEAD OIL STN, & fresh bedded vitreous cryptoXLN, barren

Chert- Buff, tight dolomitic chert w/ poor vis. porosity, barren

GRANITE WASH 3743' (-1656) E-LOG 3729' (-1642) Translucent Salmon, fractured, biotite & muscovite inclusions/sheets

Clear crystalline qtz, fractured, some chlorite inclusions

Translucent & Salmon granite wash, micaceous w/ biotite & muscovite inclusions

A/A w/ Influx of more salmon

RTD 3815' (-1728) LTD 3816' (-1729) @ 15:12 1/13/2022

(10% G, 85% O, 5% M)
SAMPLE CHAMBER:
 1800mL O
 100 mL G
 100 mL M
 IFP: 18-37#
 FFP: 38-60#
 SIP: 1093-1089#
 BHT: 114 deg.

SURVEY 2 deg.

DST 3 CHART.jpg

