

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 Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Castle Resources

16/2s/34w Rawlins KS

PO Box 583
Russell, KS 675665

Worley #1

Job Ticket: 63448

DST#: 1

ATTN: Jerry Green

Test Start: 2018.01.21 @ 13:07:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:21:15

Time Test Ended: 20:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 4003.00 ft (KB) To 4060.00 ft (KB) (TVD)

Reference Elevations: 3133.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

3128.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8017 Outside

Press@RunDepth: 17.67 psig @ 4004.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.21

End Date:

2018.01.21

Last Calib.:

2018.01.21

Start Time: 13:07:05

End Time:

20:08:29

Time On Btm:

2018.01.21 @ 15:21:00

Time Off Btm:

2018.01.21 @ 18:09:00

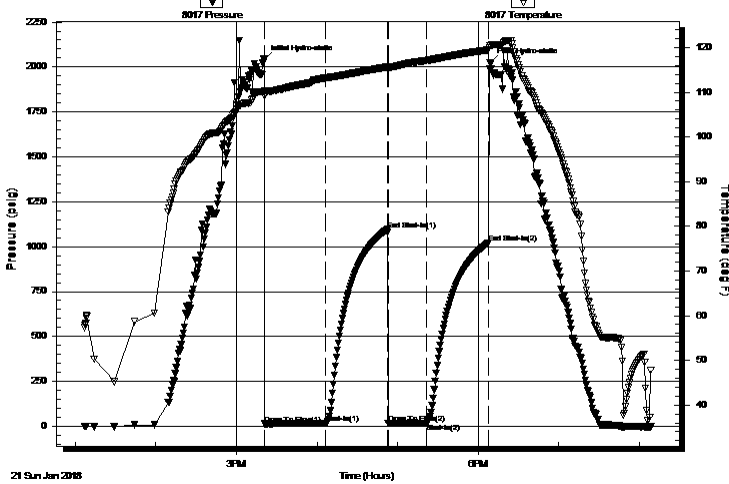
TEST COMMENT: 45 - IF: Blow built to 2" (Diesel in bucket)

45 - IS: No blow back

30 - FF: Blow built to 1/4"

45 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2041.35	110.27	Initial Hydro-static
1	13.42	109.23	Open To Flow (1)
46	15.43	113.22	Shut-In(1)
92	1095.04	115.65	End Shut-In(1)
92	16.90	115.25	Open To Flow (2)
121	17.67	117.10	Shut-In(2)
167	1022.74	119.48	End Shut-In(2)
168	2024.09	120.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources

16/2s/34w Rawlins KS

PO Box 583
Russell, KS 675665

Worley #1

Job Ticket: 63448

DST#: 1

ATTN: Jerry Green

Test Start: 2018.01.21 @ 13:07:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

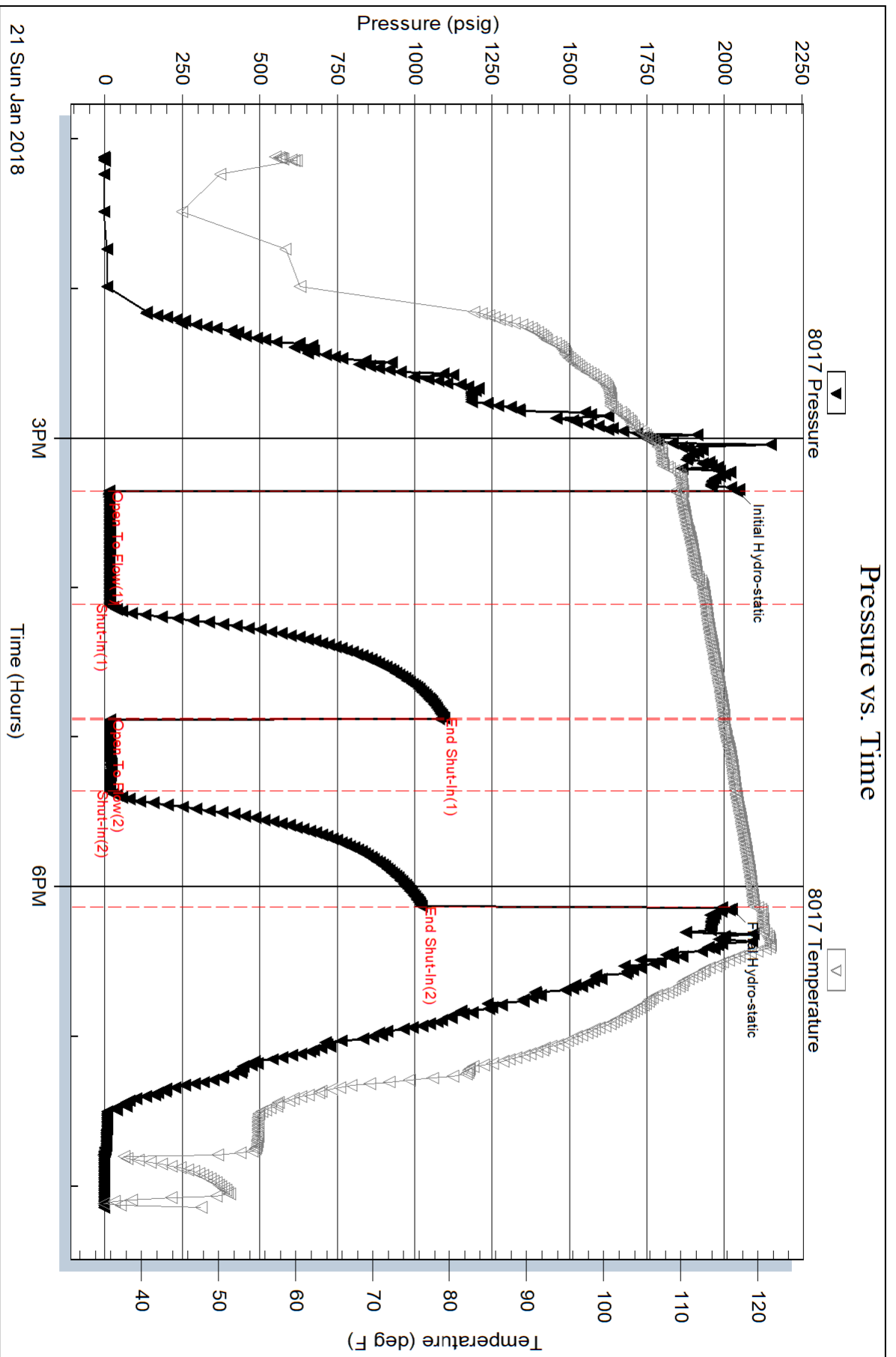
Num Gas Bombs: 0

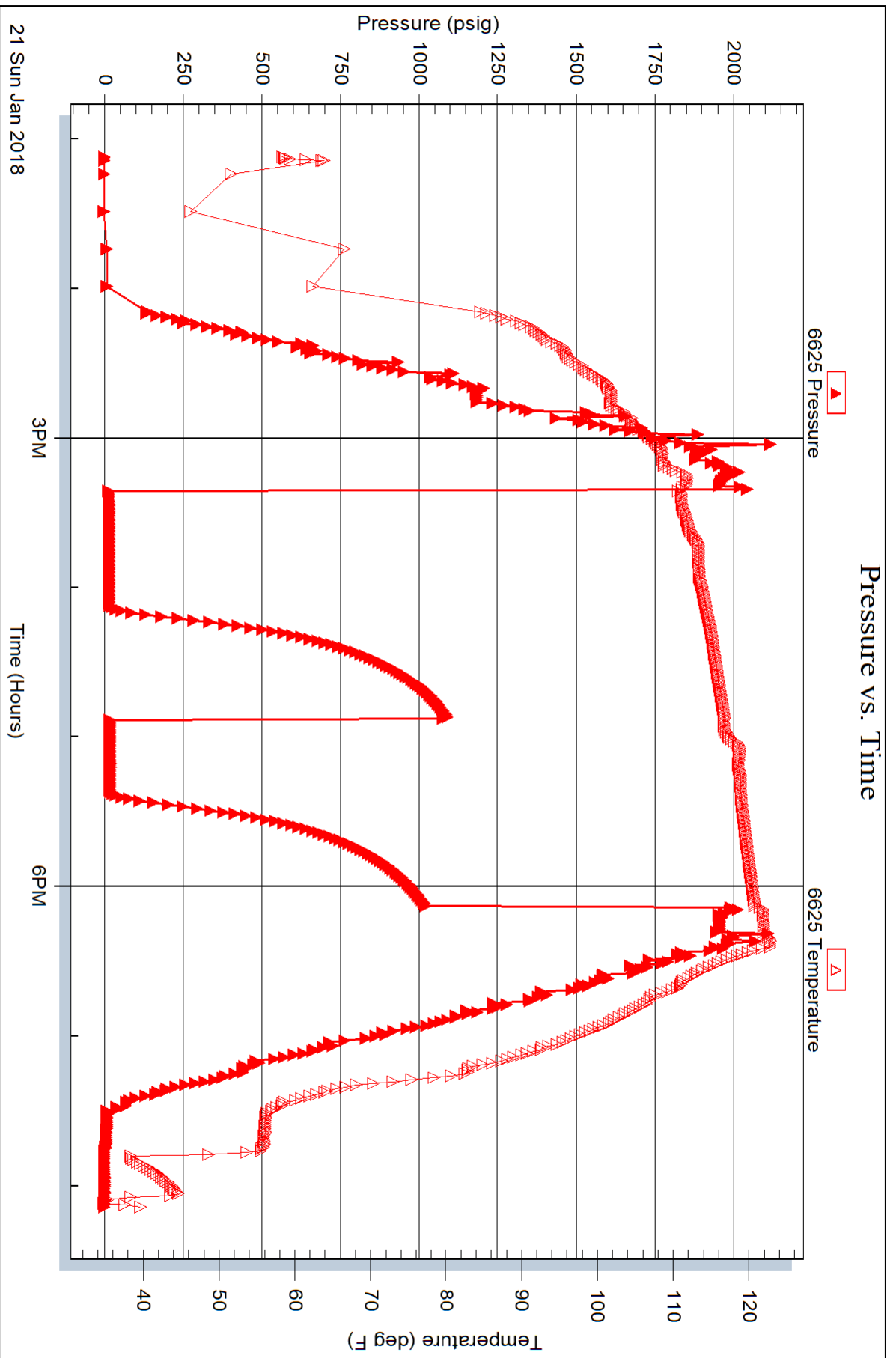
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castle Resources

16/2s/34w Rawlins KS

PO Box 583
Russell, KS 675665

Worley #1

Job Ticket: 63349

DST#: 2

ATTN: Jerry Green

Test Start: 2018.01.23 @ 14:45:00

GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:49:45

Time Test Ended: 20:34:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4291.00 ft (KB) To 4360.00 ft (KB) (TVD)

Reference Elevations: 3133.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

3128.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8017 Outside

Press@RunDepth: 15.82 psig @ 4292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.23 End Date: 2018.01.23

Last Calib.: 2018.01.23

Start Time: 14:45:05 End Time: 20:34:29

Time On Btm: 2018.01.23 @ 16:49:15

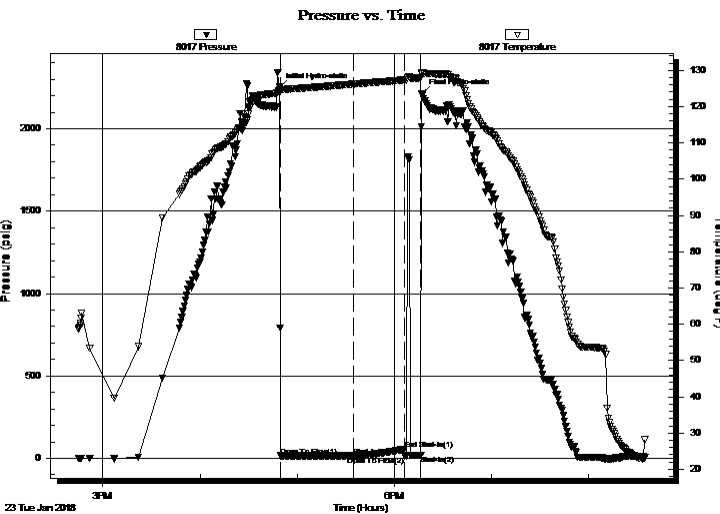
Time Off Btm: 2018.01.23 @ 18:17:00

TEST COMMENT: 45 - IF: 1/4" Blow at open, built to 3/4", died back, dead at 42 min.

30 - IS: No blow

10 - FF: No blow, Flushed tool, surge then dead

Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.79	124.66	Initial Hydro-static
1	14.69	124.25	Open To Flow (1)
46	15.82	126.21	Shut-In(1)
77	57.05	127.33	End Shut-In(1)
78	15.31	127.32	Open To Flow (2)
87	18.06	127.92	Shut-In(2)
88	2214.10	129.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources

16/2s/34w Rawlins KS

PO Box 583
Russell, KS 675665

Worley #1

Job Ticket: 63349

DST#: 2

ATTN: Jerry Green

Test Start: 2018.01.23 @ 14:45:00

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:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

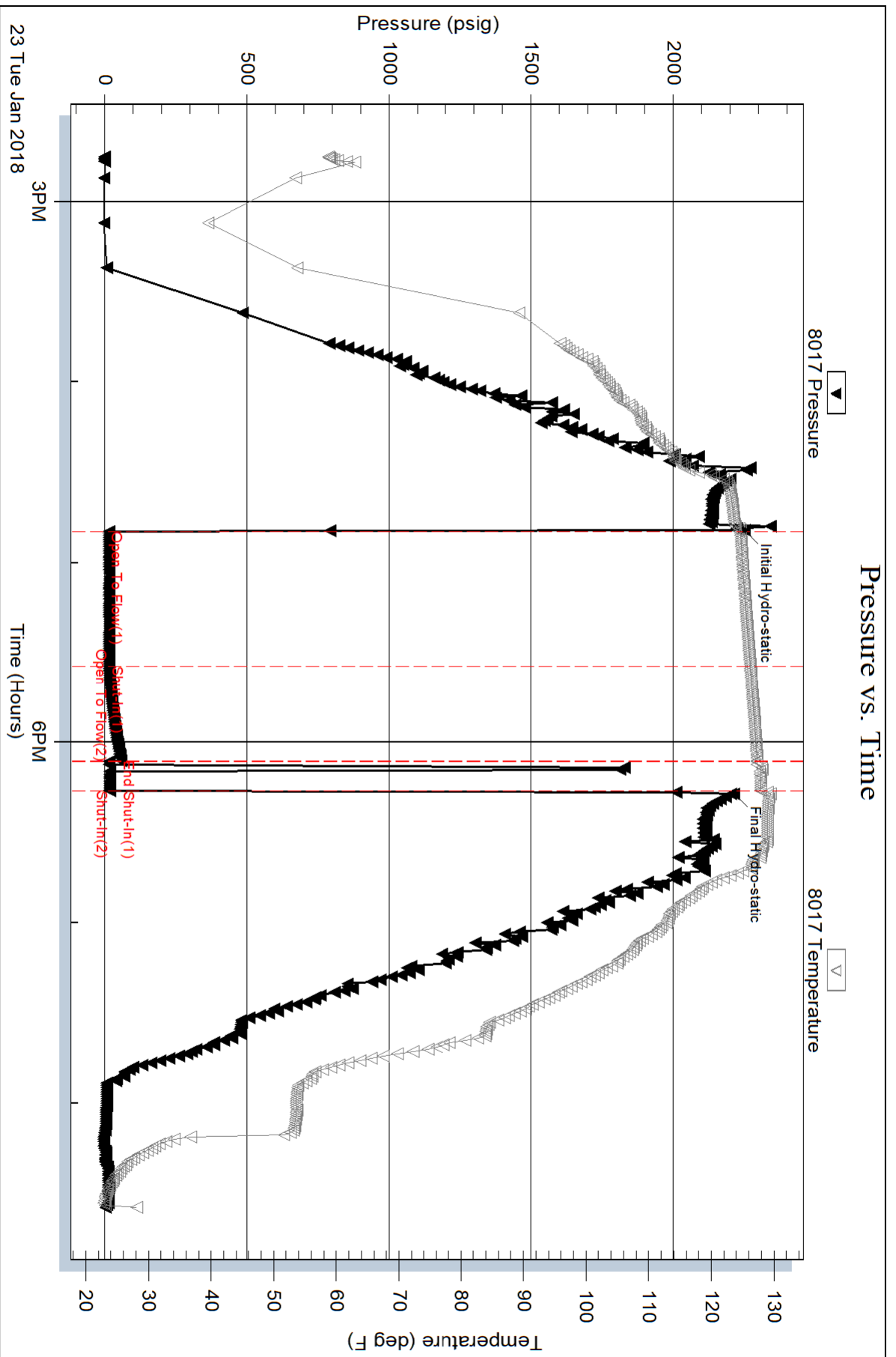
Num Gas Bombs: 0

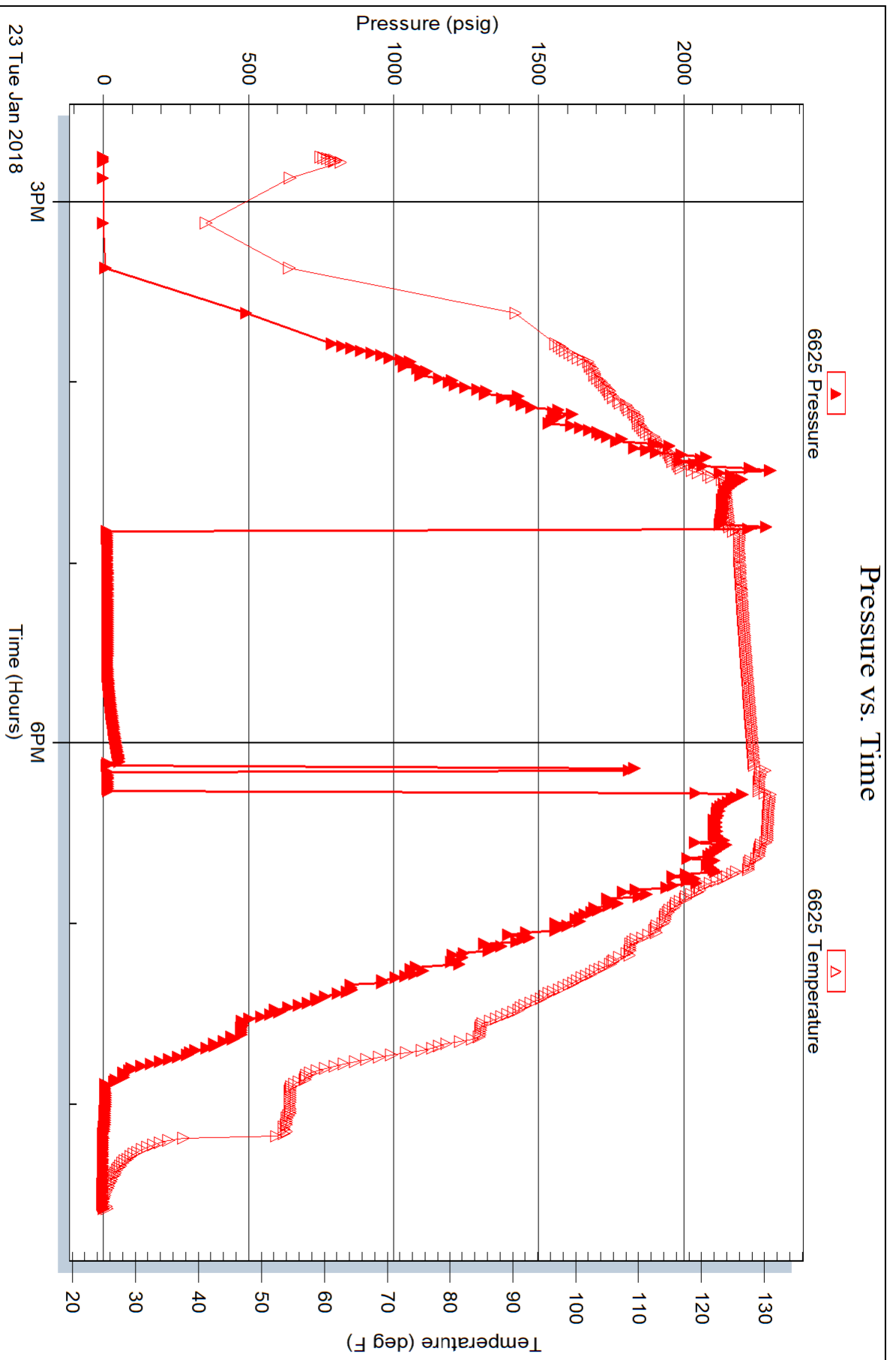
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





4350 Keystone
Hays, KS 67601
PHONE: 785-625-5155

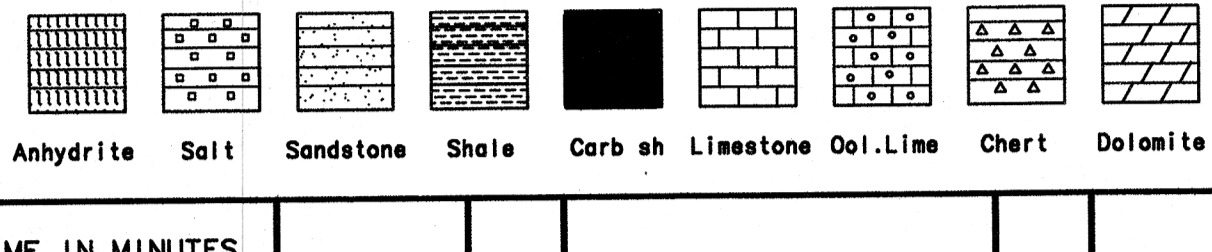
GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>Casale Resources Inc</u>	ELEVATIONS
LEASE <u>Worley #1</u>	KB <u>3133</u>
FIELD <u>Wildcat</u>	DF _____
LOCATION <u>586' FSI 1655' Fwi</u>	GL <u>3128</u>
SEC <u>16</u> TWP <u>2S</u> RGE <u>34W</u>	Measurements Are All From <u>KB</u>
COUNTY <u>Rawlins</u> STATE <u>Kansas</u>	CASING SURFACE <u>879.97303'</u>
CONTRACTOR <u>Labrite Kaibab Drilling</u>	PRODUCTION _____
SPUD <u>1-16-18</u> COMP <u>1-24-18</u>	ELECTRICAL SURVEYS <u>DIL/ND-Micro</u>
RTD <u>4360</u> LTD <u>4361</u>	
MUD UP <u>3500</u> TYPE MUD <u>Chem</u>	
SAMPLES SAVED FROM <u>3600'</u>	TO <u>TD</u>
DRILLING TIME KEPT FROM <u>3600'</u>	TO <u>TD</u>
SAMPLES EXAMINED FROM <u>3600'</u>	TO <u>TD</u>
GEOLOGICAL SUPERVISION FROM <u>3600'</u>	TO <u>TD</u>
GEOLOGIST ON WELL <u>24th - 23rd</u>	
FORMATION TOPS	LOG
ANhydrite	2940 +193 2937 +196
Topoka	3840-707 3838-705
Heebner	4010-877 4007-874
L-KC	4054-921 4048-915
B-KC	4318-185 4315-182
RTD	4361-128 4360-127

REMARKS: All parties involved recommended that this well be plugged.

LEGEND



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
3600'		Lms wh. offsh Chalky - fm Fx barren w/ Alt Red shales		
3650'		Lms offsh - buff colored Fx Cherty Foss Fx barren w Alt Red shales		
3700'		" "		
3750'		" "		
3800'		Lms offsh tr live st VM dead st inter Per fm inter Per cherty in pt sh red some silty		
3838-705	Topoka	Lms offsh Foss cherty Fx tr VM dead st inter Foss + Per		
3850'		Lms offsh Fx Foss barren tr dead st		
3900'		Lms offsh Fx Foss barren tr dead st		
3950'		Lms Dolomitic Fx offsh - gray fm barren		
4000'	Heebner	Gray + Rd shale Black + gray sh Lms offsh - gray Fx VM heavy FO + st VM Asphaltic oil interx + Foss por Black sh inc 20		DST #1 4003 - 4060 Blow: Weak Rec: 15' mud IBHP: 1095 FBHP: 1023 FP: 13-15 17-18
4048-915	L-KC	SS Fgr well sorted barren interg Per Gray silty		
4050'		Lms offsh - gray Fx Foss fm interx + Foss por + Per VM VM-M FO + st VM heavy FO + st		
4100'		Lms offsh Fx barren sample poor 90% shale		
4150'		Black + Rd shale Lms wh. offsh Fr - fm Foss barren		
4200'		Lms wh. offsh Foss tr live + dead st tr condensate on top of cup. ? diesel?		
4250'		Lms offsh - wh Fx - m VM FO + st interx + Foss Per G2. Black sh inc		DST #2 42901 - 4360 45-528' 10 Blow: weak-dies Rec: 5' mud IBHP: 57# FBHP: FP: 15-18
4300'		Lms offsh fm Fx Foss in pt barren		
4315-182	B-KC	Lms offsh Fr Fx Lms Foss VM Foss st interx + Foss Per - Almost conden Rd shale		
4350'		SS gray silty barren		

GREEN01-7