

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	KYSAR #1-19
Doc ID	1462566

All Electric Logs Run

Microlog
Porosity
Resistivity
Sonic

MAY 09 2019

mf



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000335	1718	05/06/2019
INVOICE NUMBER			
92964971			

Pratt (620) 672-1201
 B BEREKCO LLC
 I 2020 N BRAMBLEWOOD
 L WICHITA
 L KS US 67206
 T
 O ATTN: VICKEY LOVETTE

J LEASE NAME KYSAR 1-19
 O LOCATION
 B COUNTY KEARNY
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41173689	19572		Net - 30 days	06/05/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/04/2019 to 05/04/2019</i>				
0041173689				
1718195021 Cement-New Well Casing/Pi 05/04/2019 CEMENT SURFACE CASING				
A-Serv Lite	750.00	SK	7.41	5,557.50 T
150 SKS Premium Cement	1.00	SK	1,393.50	1,393.50 T
2241 LBS Calcium Chloride	1.00	LB	1,344.60	1,344.60 T
226 LBS Celluloflake	1.00	LB	476.86	476.86 T
Guide Shoe - Regular, 8 5/8" (Blue)	1.00	EA	224.20	224.20
Flapper Type Insert Float Valves. 8 5/8"	1.00	EA	165.20	165.20
Top Rubber Cement Plug, 8 5/8"	1.00	EA	132.75	132.75
Centralizer, 8 5/8" (Blue)	3.00	EA	53.10	159.30
240 Heavy Equipment Mileage	1.00	MI	1,027.20	1,027.20
Blending & Mixing Service Charge	1.00	SK	720.00	720.00
Proppant and Bulk Delivery Charges	1.00	MI	3,406.26	3,406.26
Depth Charge, 1001'-2000'	1.00	HR	855.00	855.00
Plug Container Utilization Charge	1.00	EA	142.50	142.50
50 Light Vehicle Mileage	1.00	MI	154.20	154.20
Cement Data Acquisition Monitor Strip	1.00	EA	313.50	313.50
Service Supervisor Charge	1.00	EA	75.00	75.00
Driver Charge	4.00	EA	35.00	140.00

BCP

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	16,287.57
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	570.21
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	16,857.78
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



PRESSURE PUMPING

Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

Job Log

Customer:	Berexco, LLC	Cement Pump No.:	37223 19572 19HRS	Operator TRK No.:	94245
Address:	2020 N Bramblewood	Ticket #:	1718 19502 L	Bulk TRK No.:	30463 19578 30464 37547
City, State, Zip:	Wichita Ks 67206	Job Type:	Z-42 Cement Surface Casing		
Service District:	1718-Liberal Ks	Well Type:	OIL		
Well Name and No.:	Kysar # 1-19	Well Location:	19-21S-35W	County:	Kearny
				State:	Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-Serv Lite	750	6%Gel, 3%Calcium Chloride, 1/4 pps Cello-flake	30463 19578	30464 37547	Front Back
Premium Plus Cement	150	2%Calcium Chloride, 1/4pps Cello-flake	27808 19883		Front Back
					Front Back

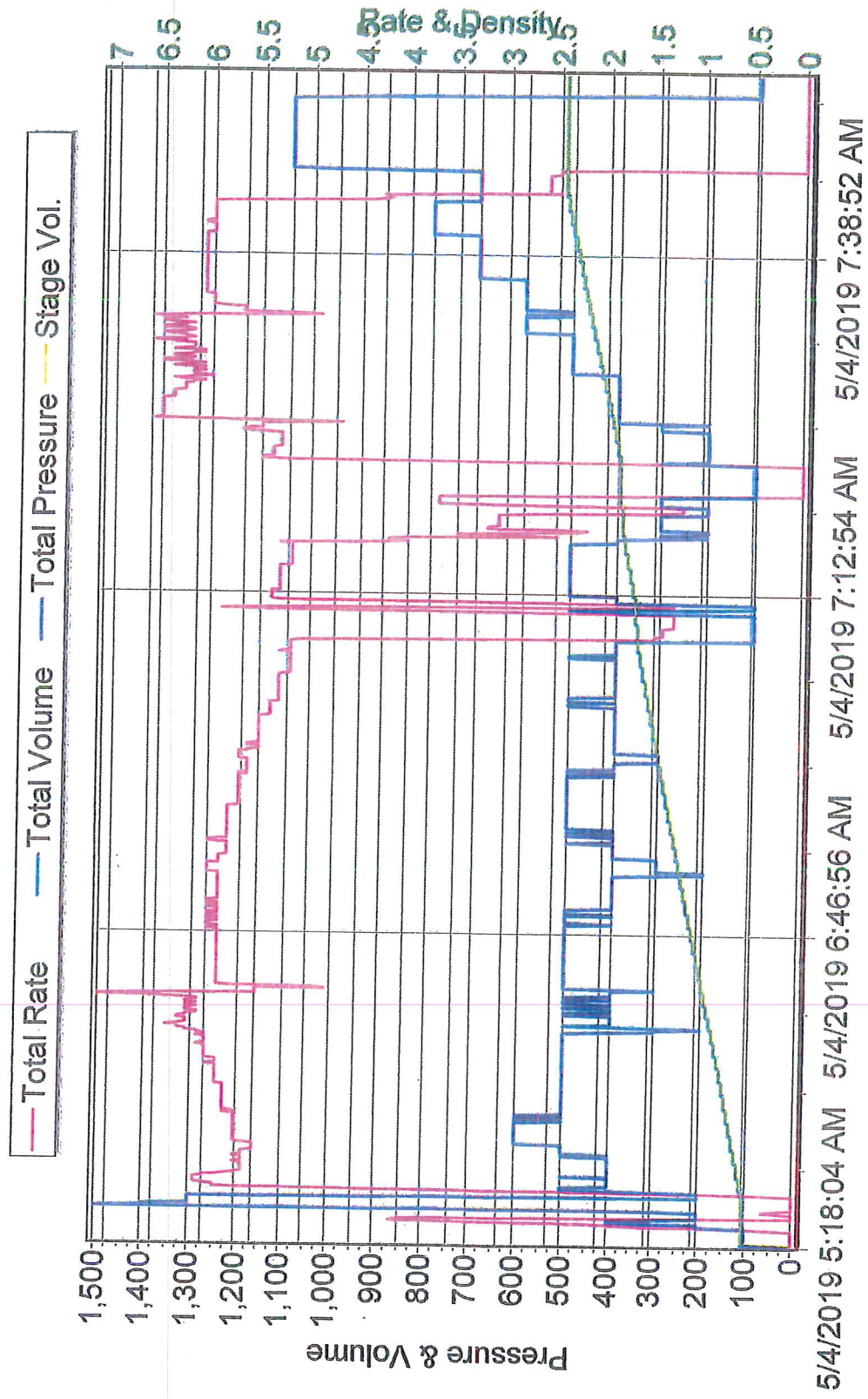
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	12.3	2.08	11.52	1560	TT Man Hours:	98
Tail:	14.8	1.35	6.35	202.5	# of Men on Job:	5

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
20:30pm							Arrived at location
20:45pm							Spot trucks/Rig up
5:15am							Safety meeting
6:25am						1500	Pressure test lines to 1500psi
6:26am	6	10				200	Pump 10bbls of fresh water spacer
6:28am	6	277				210	Pump 277bbls of lead cement from 750sks @12.3#
7:11am	6	36				290	Pump 36bbls of tail cement from 150sks @14.8#
7:20am							Shut down/drop plug/Wash pump and lines
7:23am							Start displacement of 122bbls with fresh water
7:27am	6	20				250	20bbls gone
7:30am	6	40				310	40bbls gone
7:34am	6	60				400	60bbls gone
7:38am	6	80				550	80bbls gone
7:41am	6	100				680	100bbls gone
7:43am	6	110				700	110bbls gone/slow down rate
7:45am	3	122				1050	Bump plug
							Check if float holds
							Got 50bbls of cement to surface
							Rig down
							Job completed
							Thanked company man

Size Hole	12 1/4	Depth	1960		TYPE	Float Collar	
Size & Wt. Csg.	8 5/8 24#	Depth	1959	New / Used	Float	1915.8	Depth
Landing PSI	500+	Depth			Retainer		Depth
Shoe Joint	43.2	Type			Perfs		CIBP

Customer Signature: <i>Walter Brown</i>	Basic Representative:	Victor A. Corona
	Basic Signature:	<i>Victor A. Corona</i>
	Date of Service:	5/4/2019

Berexco LLC
8 5/8 Surface
Kysar 1-19
5/4/2019





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

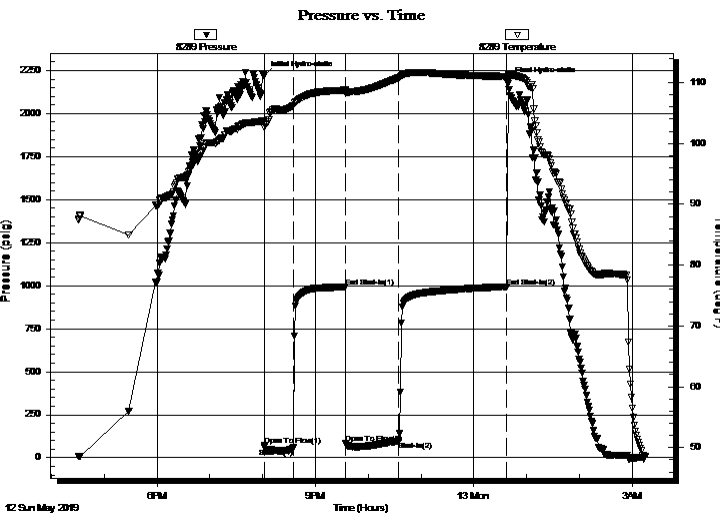
19/21/35 Kearny, KS
Kysar 1-19
Job Ticket: 64073 **DST#: 1**
Test Start: 2019.05.12 @ 16:31:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: 3204.00 ft (KB)
Time Tool Opened: 20:01:50
Time Test Ended: 03:14:04
Interval: **4588.00 ft (KB) To 4610.00 ft (KB) (TVD)**
Total Depth: 4610.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 75
Reference Elevations: 3203.00 ft (KB)
3192.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8289 Inside
Press@RunDepth: 98.61 psig @ 4592.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.05.12 End Date: 2019.05.13 Last Calib.: 1899.12.30
Start Time: 16:31:02 End Time: 03:14:04 Time On Btm: 2019.05.12 @ 20:01:40
Time Off Btm: 2019.05.13 @ 00:38:39

TEST COMMENT: IF: Fair building blow, 4.8 inches
IS: No blow back
FF: Fair building blow, 6 inches
FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.64	103.76	Initial Hydro-static
1	70.01	102.60	Open To Flow (1)
34	56.76	106.26	Shut-In(1)
93	992.68	108.75	End Shut-In(1)
93	81.05	108.40	Open To Flow (2)
153	98.61	110.74	Shut-In(2)
276	993.94	111.02	End Shut-In(2)
277	2188.13	111.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	oily, muddy, w ater 1%O,39%M,60%W	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

19/21/35 Kearny,KS
Kysar 1-19
Job Ticket: 64073 **DST#: 1**
Test Start: 2019.05.12 @ 16:31:00

GENERAL INFORMATION:

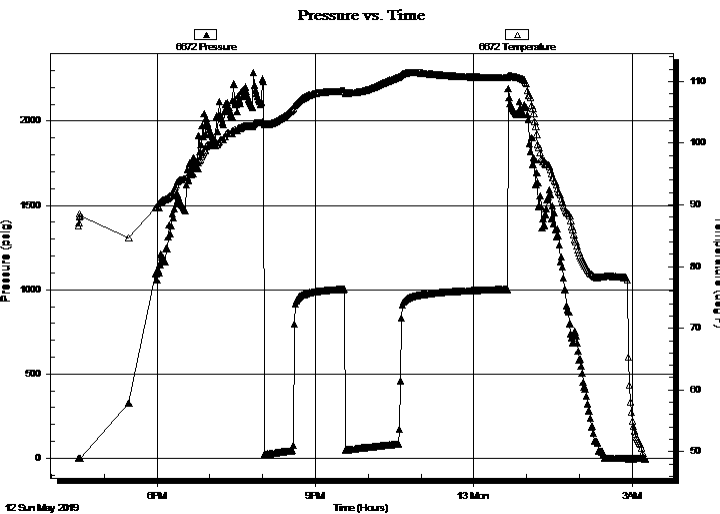
Formation: **Pawnee**
Deviated: No Whipstock: 3204.00 ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 20:01:50 Tester: Chris Hagman
Time Test Ended: 03:14:04 Unit No: 75

Interval: **4588.00 ft (KB) To 4610.00 ft (KB) (TVD)** Reference Elevations: 3203.00 ft (KB)
Total Depth: 4610.00 ft (KB) (TVD) 3192.00 ft (CF)
Hole Diameter: 7.80 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 4592.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.05.12 End Date: 2019.05.13 Last Calib.: 1899.12.30
Start Time: 16:31:02 End Time: 03:14:00 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Fair building blow , 4.8 inches
IS: No blow back
FF: Fair building blow , 6 inches
FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	oily, muddy, w ater 1%O,39%M,60%W	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

19/21/35 Kearny,KS

2020 N Bramblewood
Wichita, KS 67206

Kysar 1-19

Job Ticket: 64073

DST#: 1

ATTN: Ed Grieves

Test Start: 2019.05.12 @ 16:31:00

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:

34000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	oily, muddy, water 1%O,39%M,60%W	1.683

Total Length: 120.00 ft Total Volume: 1.683 bbl

Num Fluid Samples: 0

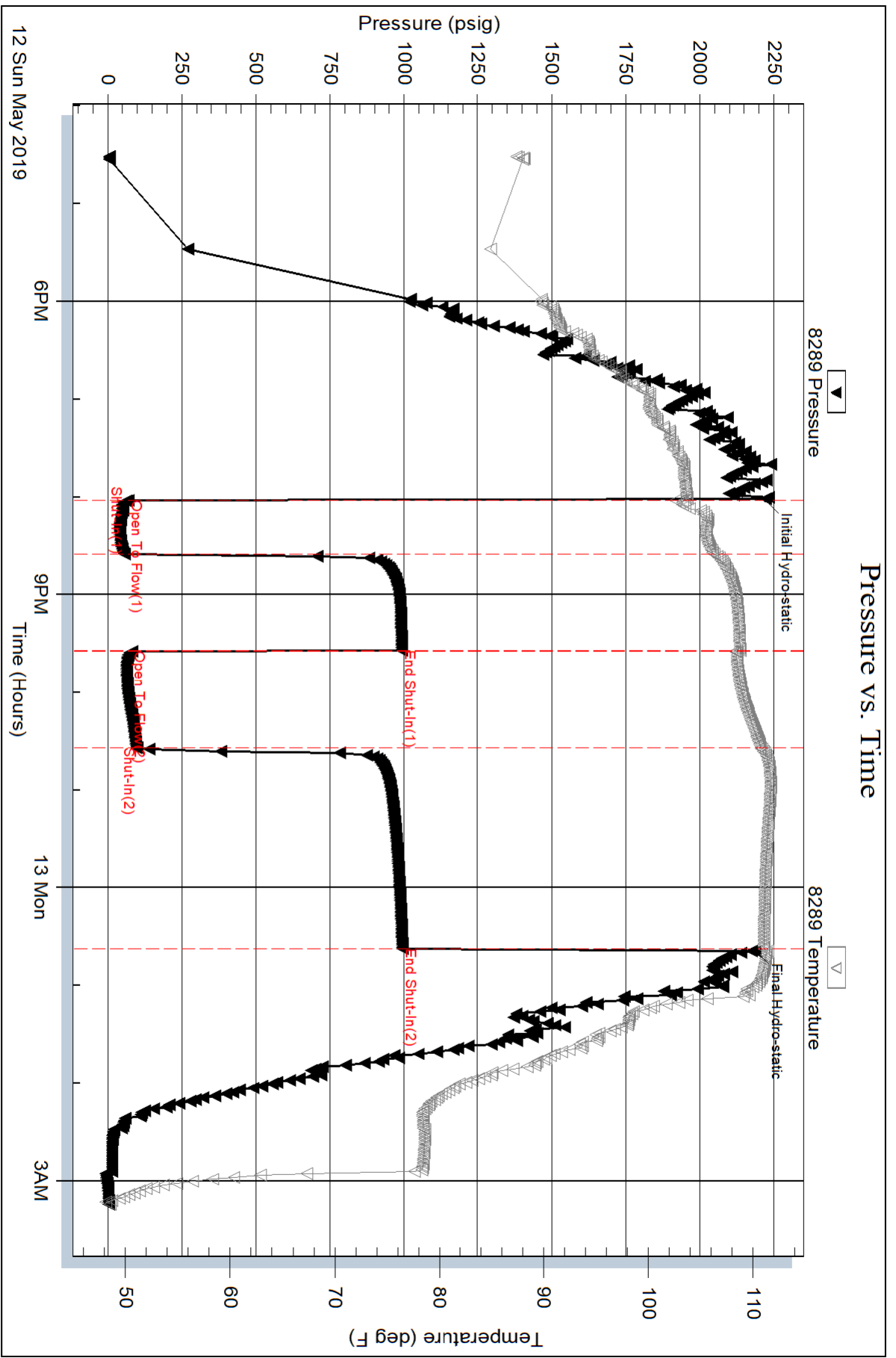
Num Gas Bombs: 0

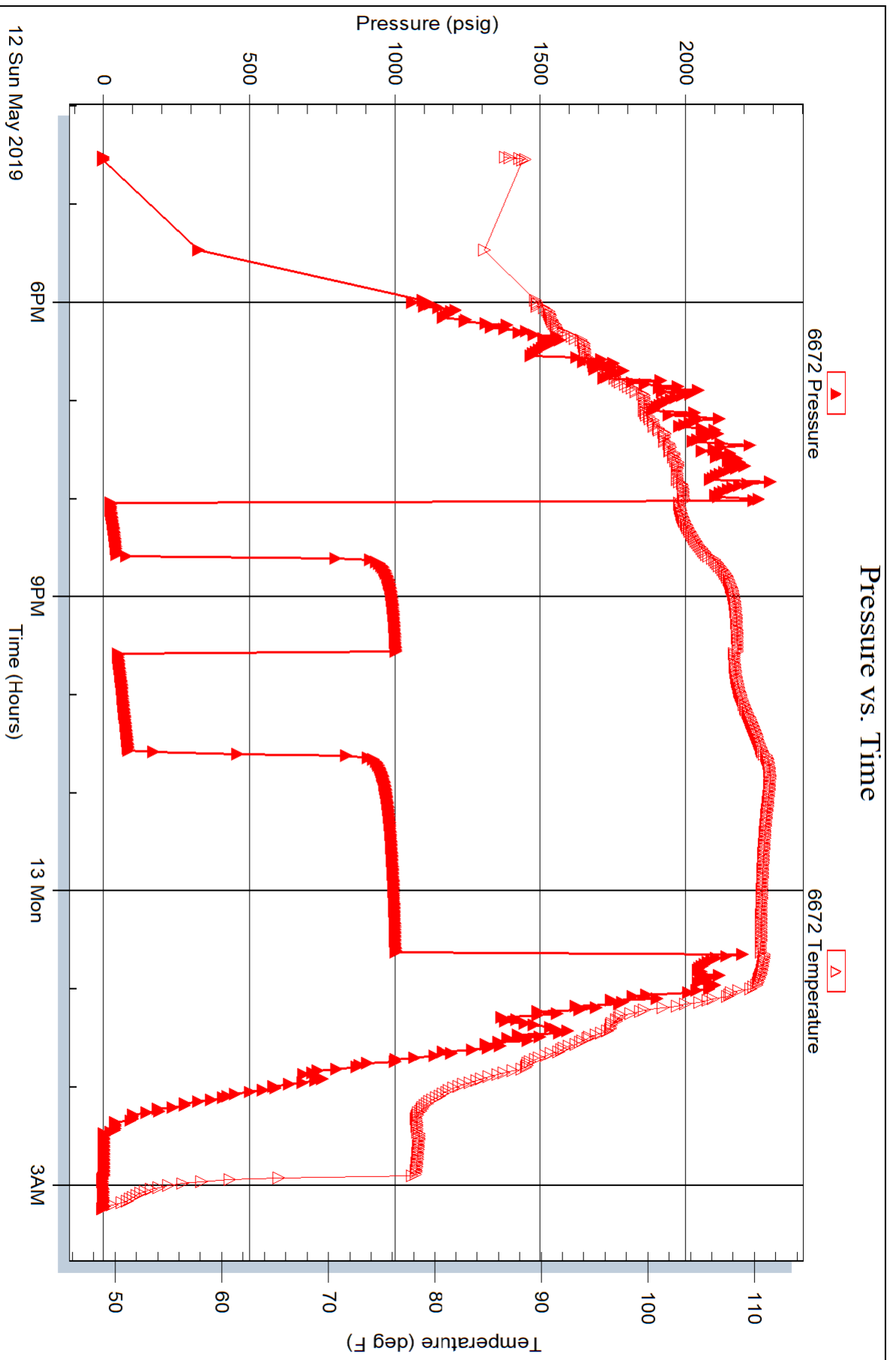
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.244@64F=34000 ppm







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita, KS 67206
 ATTN: Ed Grieves

19/21/35 Kearny, KS
Kysar 1-19
 Job Ticket: 64074 **DST#: 2**
 Test Start: 2019.05.13 @ 17:18:00

GENERAL INFORMATION:

Formation: **Lower Pawnee**
 Deviated: No Whipstock: 3204.00 ft (KB)
 Time Tool Opened: 20:24:25
 Time Test Ended: 03:52:40
 Interval: **4605.00 ft (KB) To 4625.00 ft (KB) (TVD)**
 Total Depth: 4625.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 3203.00 ft (KB)
 3192.00 ft (CF)
 KB to GR/CF: 11.00 ft

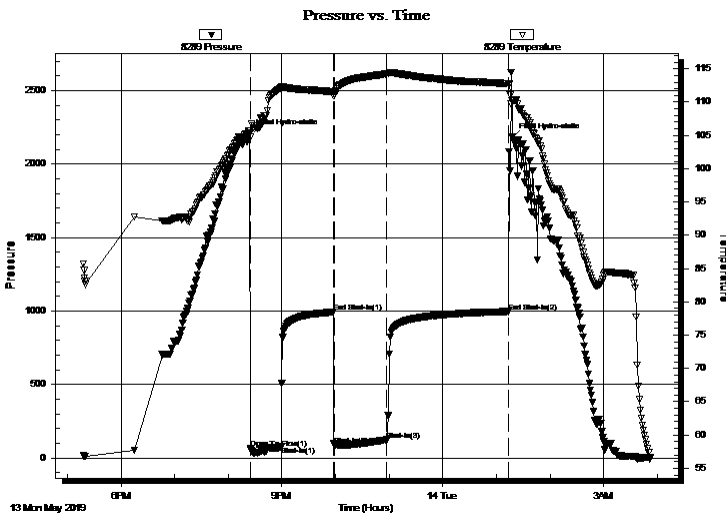
Serial #: 8289

Inside

Press@RunDepth: 77.68 psig @ 4607.00 ft (KB)
 Start Date: 2019.05.13 End Date: 2019.05.14
 Start Time: 17:18:02 End Time: 03:52:40
 Capacity: 8000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2019.05.13 @ 20:24:05
 Time Off Btm: 2019.05.14 @ 01:17:50

TEST COMMENT: IF: Strong building blow , 8.3 inches
 IS: No blow back
 FF: Strong building blow , 8.8 inches
 FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.58	105.64	Initial Hydro-static
1	63.13	104.74	Open To Flow (1)
35	77.68	112.12	Shut-In(1)
94	993.10	111.57	End Shut-In(1)
95	87.78	111.08	Shut-In(2)
154	124.00	114.23	Shut-In(3)
290	995.10	112.77	End Shut-In(2)
294	2179.78	110.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	muddy water 90%W, 10%M	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

19/21/35 Kearny,KS

2020 N Bramblewood
Wichita, KS 67206

Kysar 1-19

Job Ticket: 64074

DST#: 2

ATTN: Ed Grieves

Test Start: 2019.05.13 @ 17:18:00

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:

96000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	muddy water 90%W, 10%M	2.525

Total Length: 180.00 ft Total Volume: 2.525 bbl

Num Fluid Samples: 0

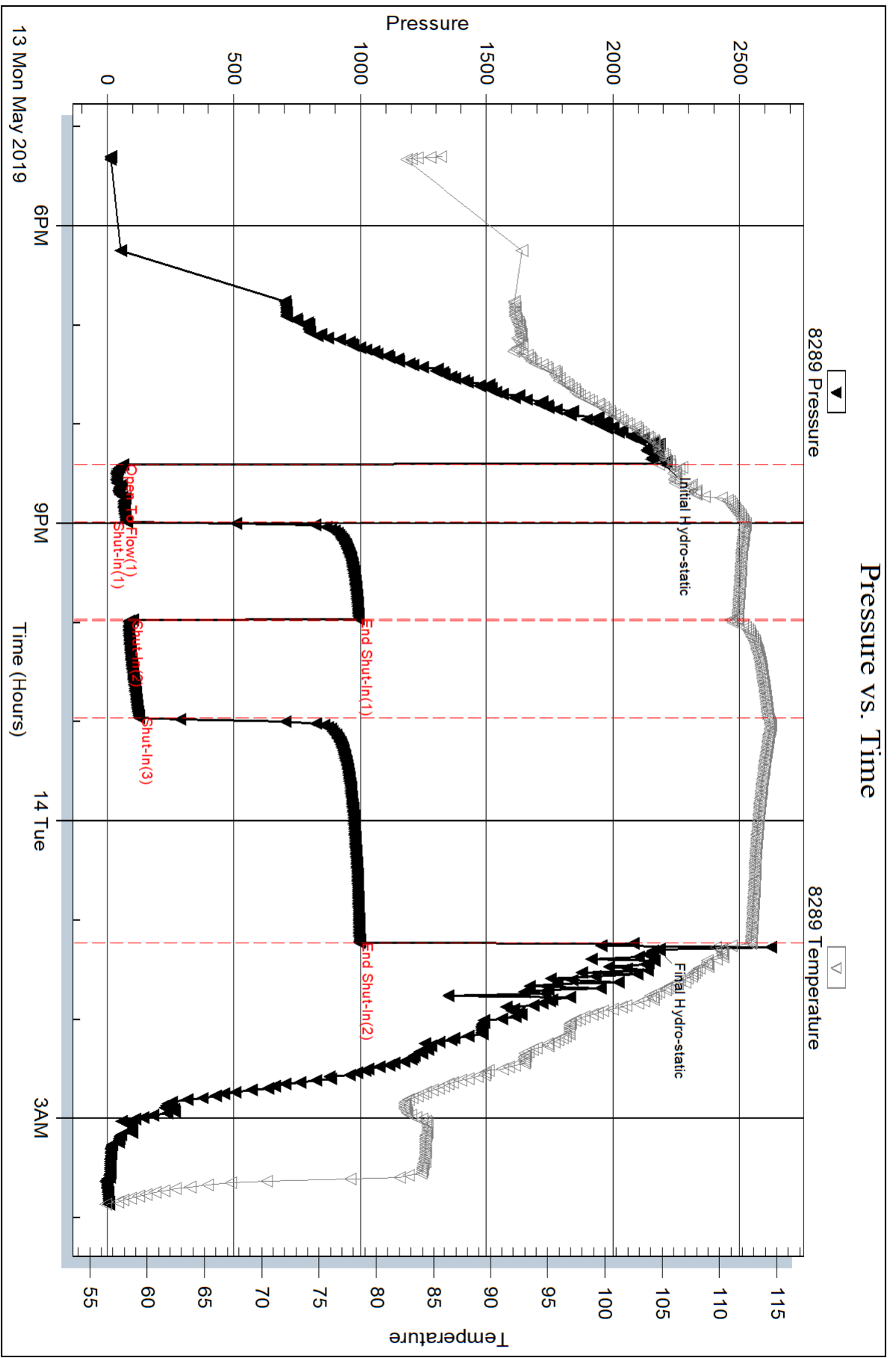
Num Gas Bombs: 0

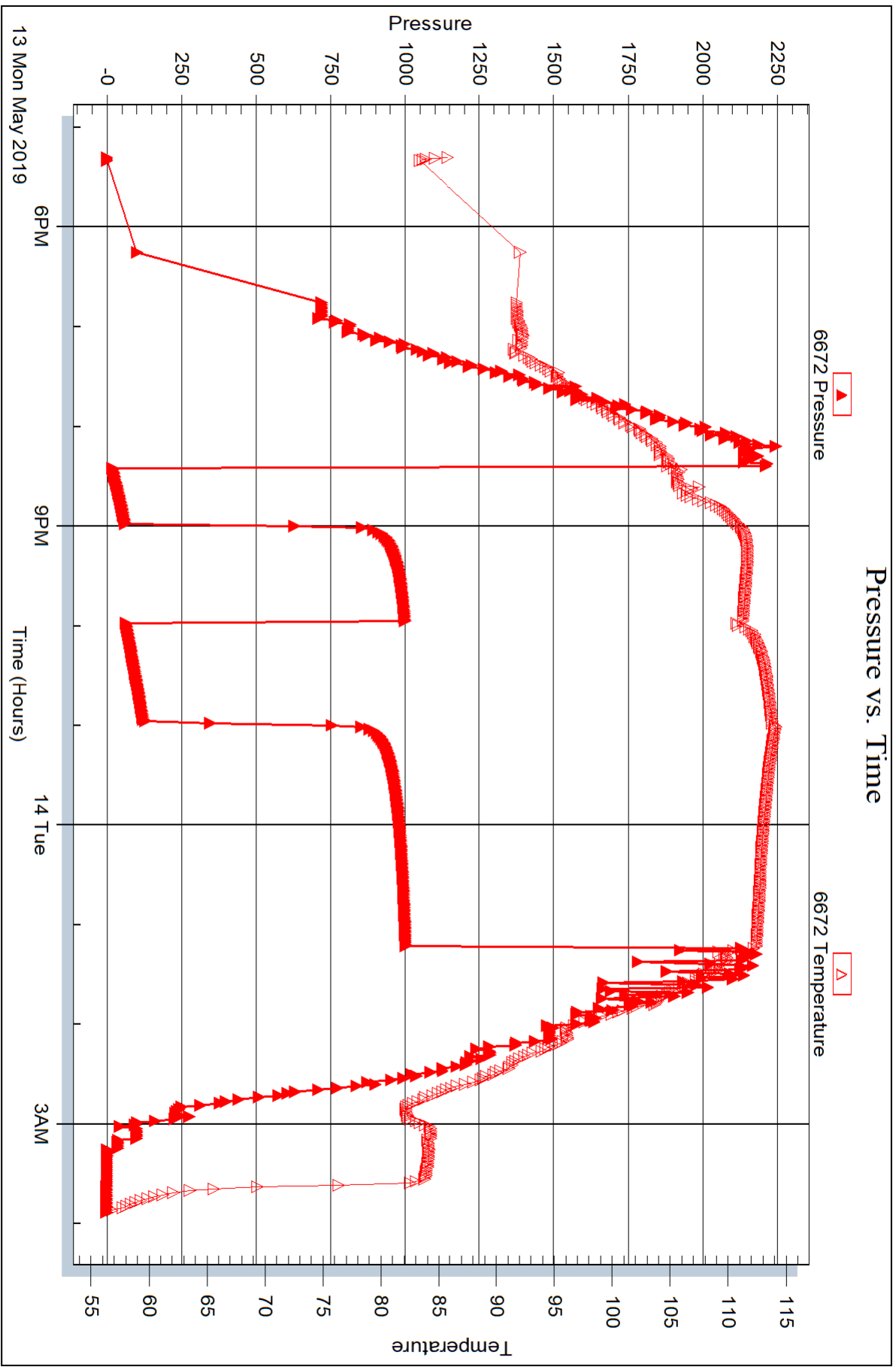
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.082@70F=96000ppm







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC

19/21/35 Kearny, KS

2020 N Bramblewood
Wichita, KS 67206

Kysar 1-19

Job Ticket: 64075

DST#: 3

ATTN: Ed Grieves

Test Start: 2019.05.14 @ 19:26:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: 3204.00 ft (KB)

Time Tool Opened: 23:16:40

Time Test Ended: 06:06:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: **4631.00 ft (KB) To 4645.00 ft (KB) (TVD)**

Reference Elevations: 3203.00 ft (KB)

Total Depth: 4645.00 ft (KB) (TVD)

3192.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8289

Inside

Press@RunDepth: 178.71 psig @ 4632.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.05.14

End Date:

2019.05.15

Last Calib.: 1899.12.30

Start Time: 19:26:02

End Time:

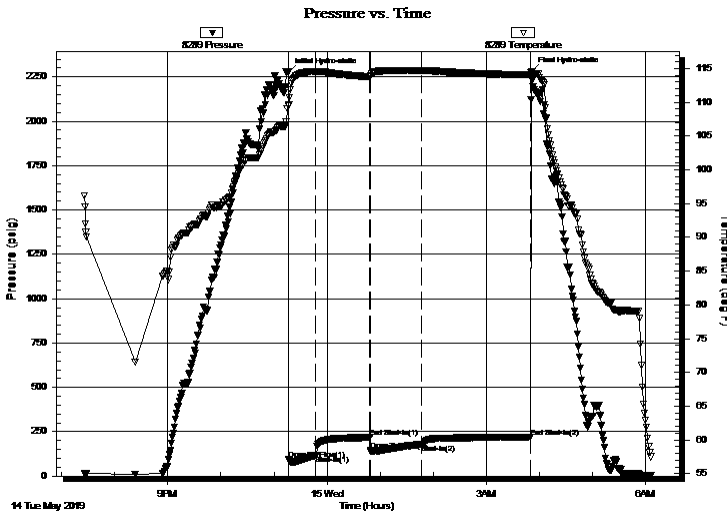
06:06:15

Time On Btm: 2019.05.14 @ 23:16:10

Time Off Btm: 2019.05.15 @ 03:51:00

TEST COMMENT: IF: BOB 9 min., strong building blow , 31.4 inches
IS: No blow back
FF: Strong building blow , 11.5 inches
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.33	109.55	Initial Hydro-static
1	96.51	109.66	Open To Flow (1)
31	116.95	114.57	Shut-In(1)
92	217.86	113.78	End Shut-In(1)
93	144.53	113.80	Open To Flow (2)
150	178.71	114.71	Shut-In(2)
274	220.38	114.05	End Shut-In(2)
275	2281.12	113.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	oil spotted gasy w ater 5%G, 95%W	4.77

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

19/21/35 Kearny, KS

2020 N Bramblewood
Wichita, KS 67206

Kysar 1-19

Job Ticket: 64075

DST#: 3

ATTN: Ed Grieves

Test Start: 2019.05.14 @ 19:26:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: 3204.00 ft (KB)

Time Tool Opened: 23:16:40

Time Test Ended: 06:06:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4631.00 ft (KB) To 4645.00 ft (KB) (TVD)

Reference Elevations: 3203.00 ft (KB)

Total Depth: 4645.00 ft (KB) (TVD)

3192.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 4632.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.05.14

End Date:

2019.05.15

Last Calib.:

1899.12.30

Start Time:

19:26:02

End Time:

06:06:15

Time On Btm:

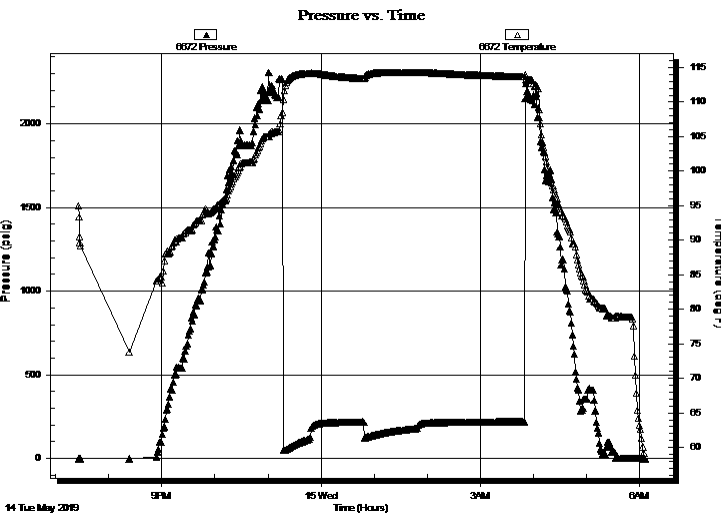
Time Off Btm:

TEST COMMENT: IF: BOB 9 min., strong building blow, 31.4 inches

IS: No blow back

FF: Strong building blow, 11.5 inches

FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
340.00	oil spotted gasy w ater 5%G, 95%W	4.77

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

19/21/35 Kearny,KS

2020 N Bramblewood
Wichita, KS 67206

Kysar 1-19

Job Ticket: 64075

DST#: 3

ATTN: Ed Grieves

Test Start: 2019.05.14 @ 19:26:00

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:

110000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
340.00	oil spotted gasy water 5%G, 95%W	4.769

Total Length: 340.00 ft Total Volume: 4.769 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.075@68F=110000 ppm



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

19-21s-35w Kearny,KS

2020 N Bramble ood
Wichita, KS 67206

Kysar #1-19

Job Ticket: 65228

DST#: 4

ATTN: Ed Grieves

Test Start: 2019.05.17 @ 15:40:18

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:16:18

Time Test Ended: 00:06:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4911.00 ft (KB) To 4970.00 ft (KB) (TVD)

Reference Elevations: 3203.00 ft (KB)

Total Depth: 5075.00 ft (KB) (TVD)

3192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8166 Outside

Press@RunDepth: psig @ 4951.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.05.17

End Date:

2019.05.18

Last Calib.:

2019.05.18

Start Time: 15:40:23

End Time:

00:06:47

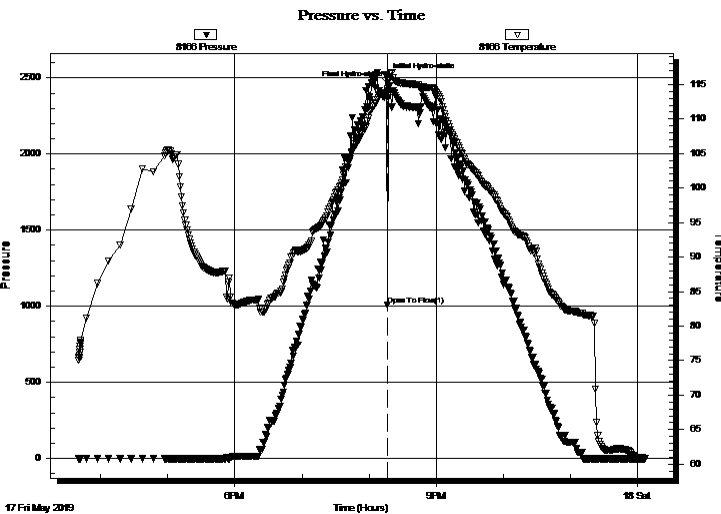
Time On Btm:

2019.05.17 @ 20:15:18

Time Off Btm:

2019.05.17 @ 20:18:18

TEST COMMENT: Packers failed



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2504.61	113.85	Initial Hydro-static
1	1008.27	114.31	Open To Flow (1)
3	2446.69	115.79	Final Hydro-static

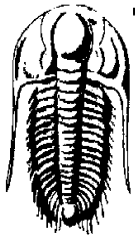
Recovery

Length (ft)	Description	Volume (bbl)
210.00	mud 100% m	2.95

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

19-21s-35w Kearny, KS
Kysar #1-19
Job Ticket: 65228 **DST#: 4**
Test Start: 2019.05.17 @ 15:40:18

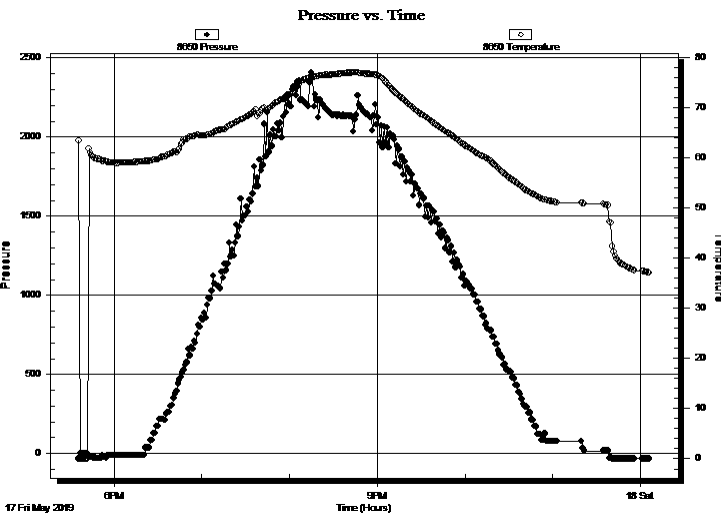
GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:16:18
Time Test Ended: 00:06:48
Interval: **4911.00 ft (KB) To 4970.00 ft (KB) (TVD)**
Total Depth: 5075.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 3203.00 ft (KB)
3192.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8650 Below (Straddle)

Press@RunDepth: psig @ 4974.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.05.17 End Date: 2019.05.18 Last Calib.: 2019.05.18
Start Time: 17:35:47 End Time: 00:06:47 Time On Btm:
Time Off Btm:

TEST COMMENT: Packers failed



PRESSURE SUMMARY

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

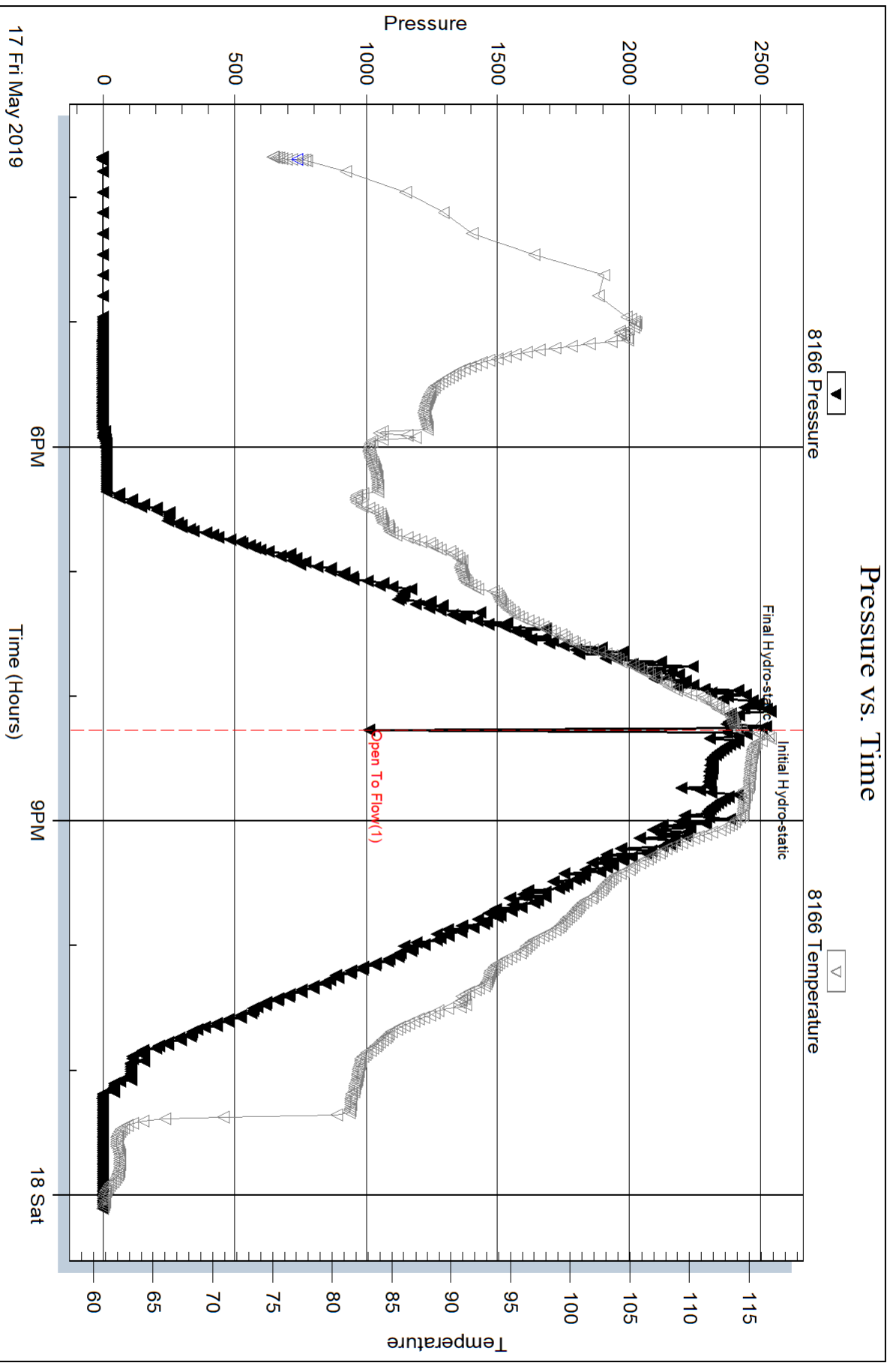
Recovery

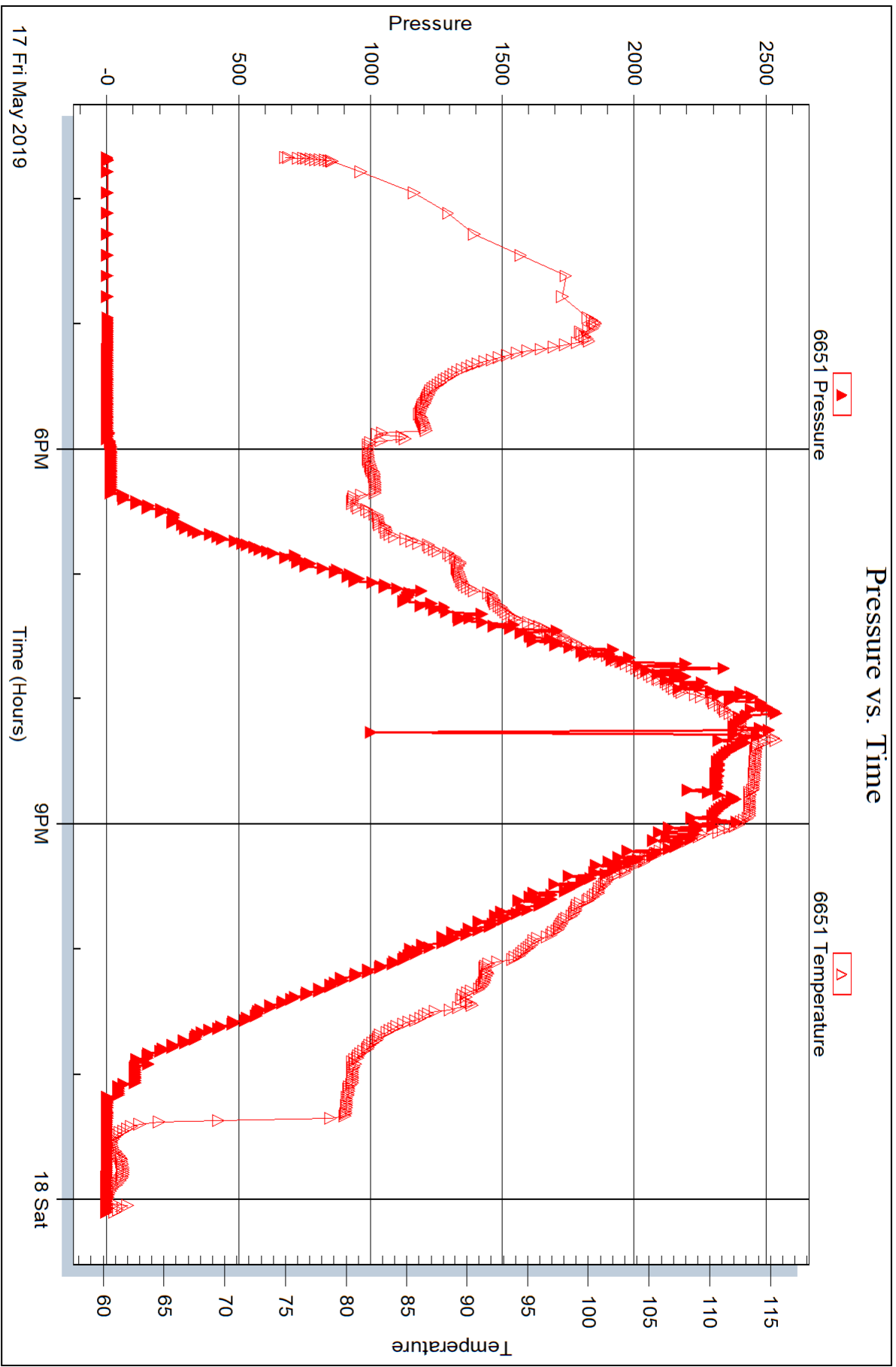
Length (ft)	Description	Volume (bbl)
210.00	mud 100% m	2.95

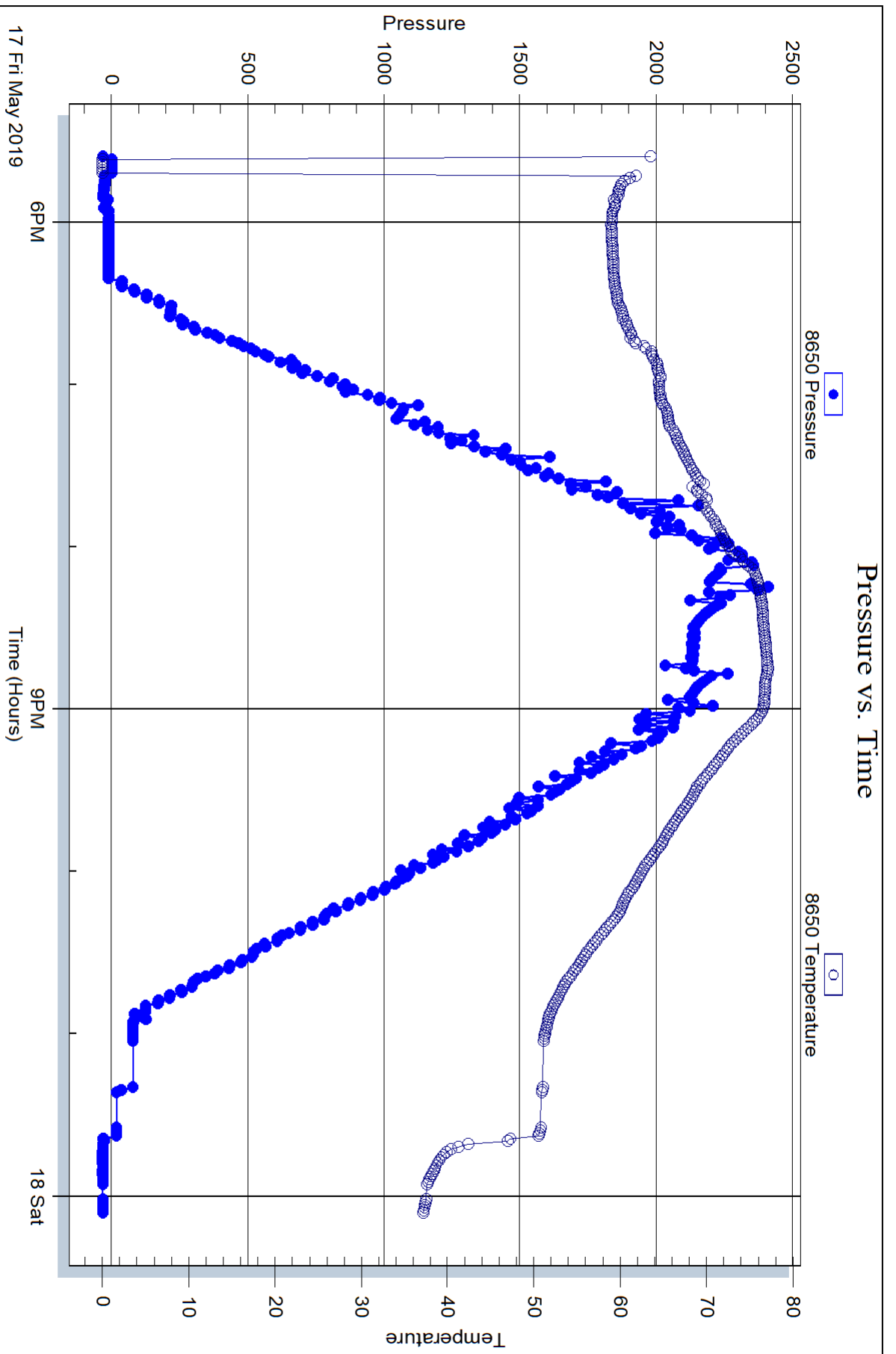
Gas Rates

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

* Recovery from multiple tests









TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita, KS 67206
 ATTN: Ed Grieves

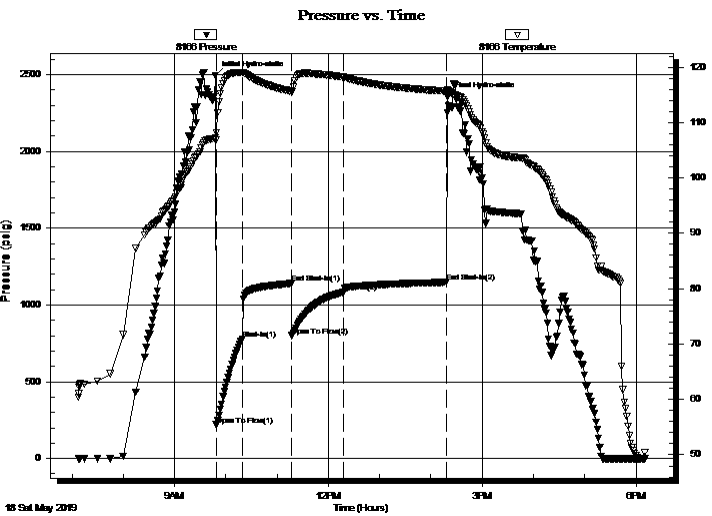
19-21s-35w Kearny, KS
Kysar #1-19
 Job Ticket: 65229 **DST#: 5**
 Test Start: 2019.05.18 @ 07:07:44

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:48:44
 Time Test Ended: 18:10:44
 Interval: **4865.00 ft (KB) To 4965.00 ft (KB) (TVD)**
 Total Depth: 5070.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3203.00 ft (KB)
 3192.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 1082.82 psig @ 4870.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.18 End Date: 2019.05.18 Last Calib.: 2019.05.18
 Start Time: 07:07:49 End Time: 18:10:44 Time On Btm: 2019.05.18 @ 09:47:44
 Time Off Btm: 2019.05.18 @ 14:19:44

TEST COMMENT: IF: BOB in 1 min. 158"
 IS: No return.
 FF: BOB in 4 min. 66"
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2493.69	107.21	Initial Hydro-static
1	219.65	106.86	Open To Flow (1)
32	775.69	119.03	Shut-In(1)
89	1140.14	115.63	End Shut-In(1)
90	799.36	115.50	Open To Flow (2)
151	1082.82	118.18	Shut-In(2)
271	1147.77	115.66	End Shut-In(2)
272	2358.53	115.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	water 100%w	1.33
1425.00	mcw 95%w 5%m	19.99
380.00	mcw oil spots 70%w 30%m	5.33
400.00	socmw 2%o 58%w 40%m	5.61

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita, KS 67206
 ATTN: Ed Grieves

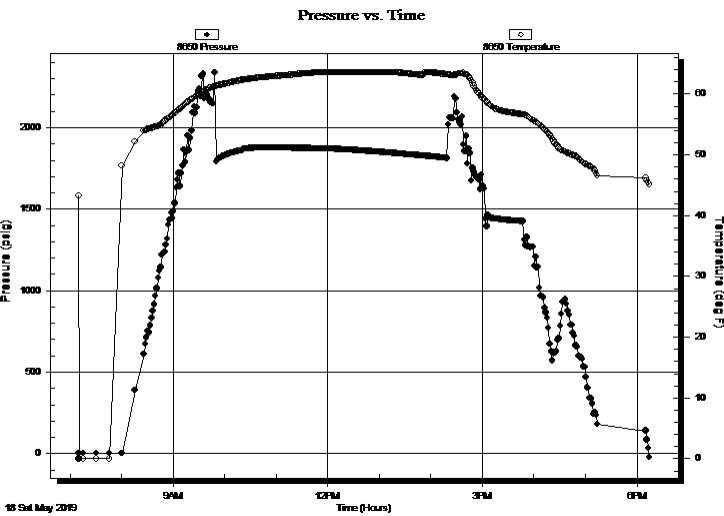
19-21s-35w Kearny, KS
Kysar #1-19
 Job Ticket: 65229 **DST#: 5**
 Test Start: 2019.05.18 @ 07:07:44

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 09:48:44
 Tester: Brandon Turley
 Time Test Ended: 18:10:44
 Unit No: 79
 Interval: **4865.00 ft (KB) To 4965.00 ft (KB) (TVD)**
 Reference Elevations: 3203.00 ft (KB)
 Total Depth: 5070.00 ft (KB) (TVD)
 3192.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

Serial #: 8650 Below (Straddle)
 Press@RunDepth: psig @ 4973.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.18 End Date: 2019.05.18 Last Calib.: 2019.05.18
 Start Time: 07:10:19 End Time: 18:15:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 1 min. 158"
 IS: No return.
 FF: BOB in 4 min. 66"
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
95.00	water 100%w	1.33
1425.00	mcw 95%w 5%m	19.99
380.00	mcw oil spots 70%w 30%m	5.33
400.00	socmw 2%o 58%w 40%m	5.61

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

19-21s-35w Kearny,KS

2020 N Bramblewood
Wichita, KS 67206

Kysar #1-19

Job Ticket: 65229

DST#: 5

ATTN: Ed Grieves

Test Start: 2019.05.18 @ 07:07:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

66000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	water 100%w	1.333
1425.00	mcw 95%w 5%m	19.989
380.00	mcw oil spots 70%w 30%m	5.330
400.00	socmw 2%o 58%w 40%m	5.611

Total Length: 2300.00 ft

Total Volume: 32.263 bbl

Num Fluid Samples: 0

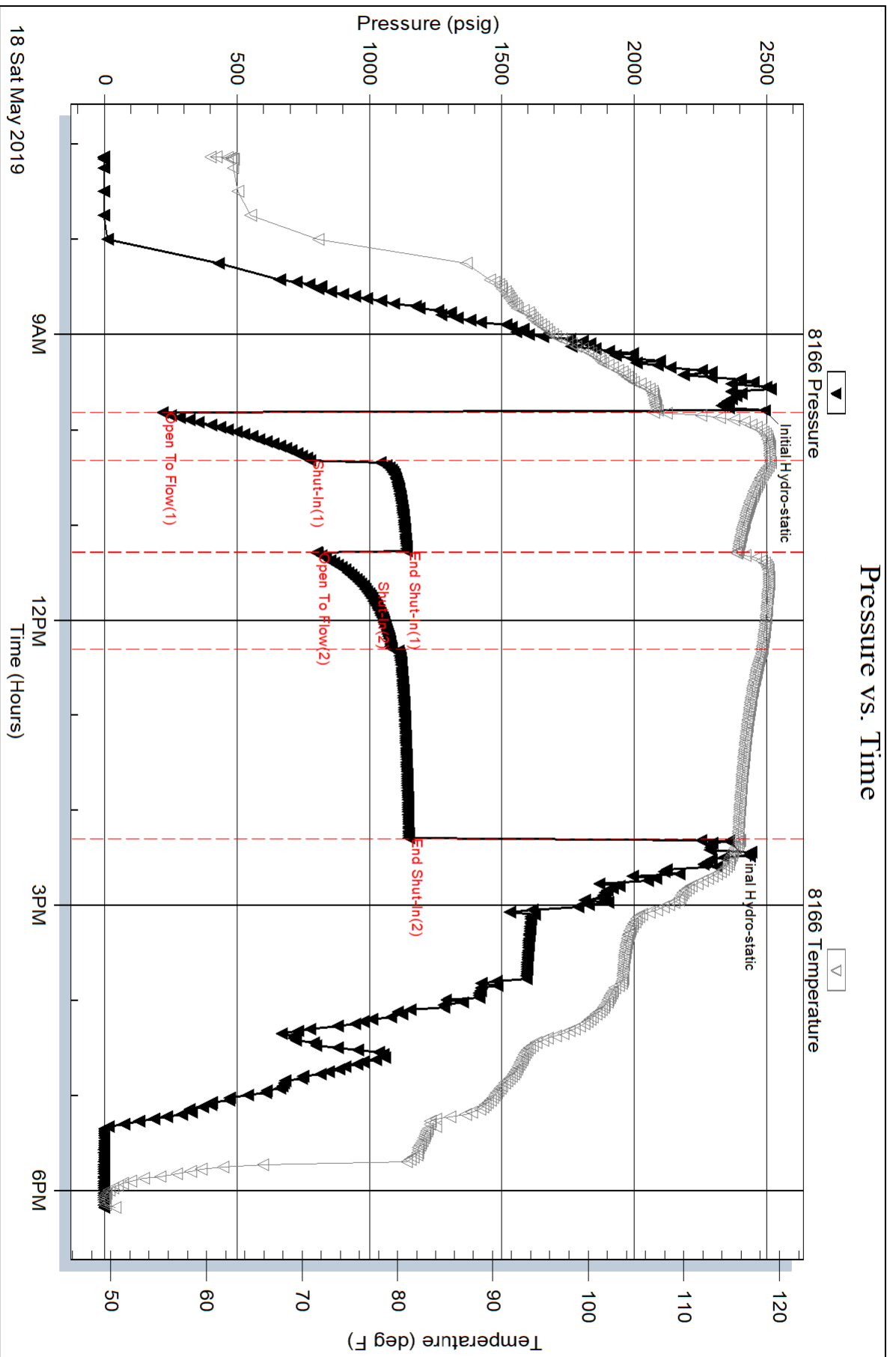
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .12@68=66000



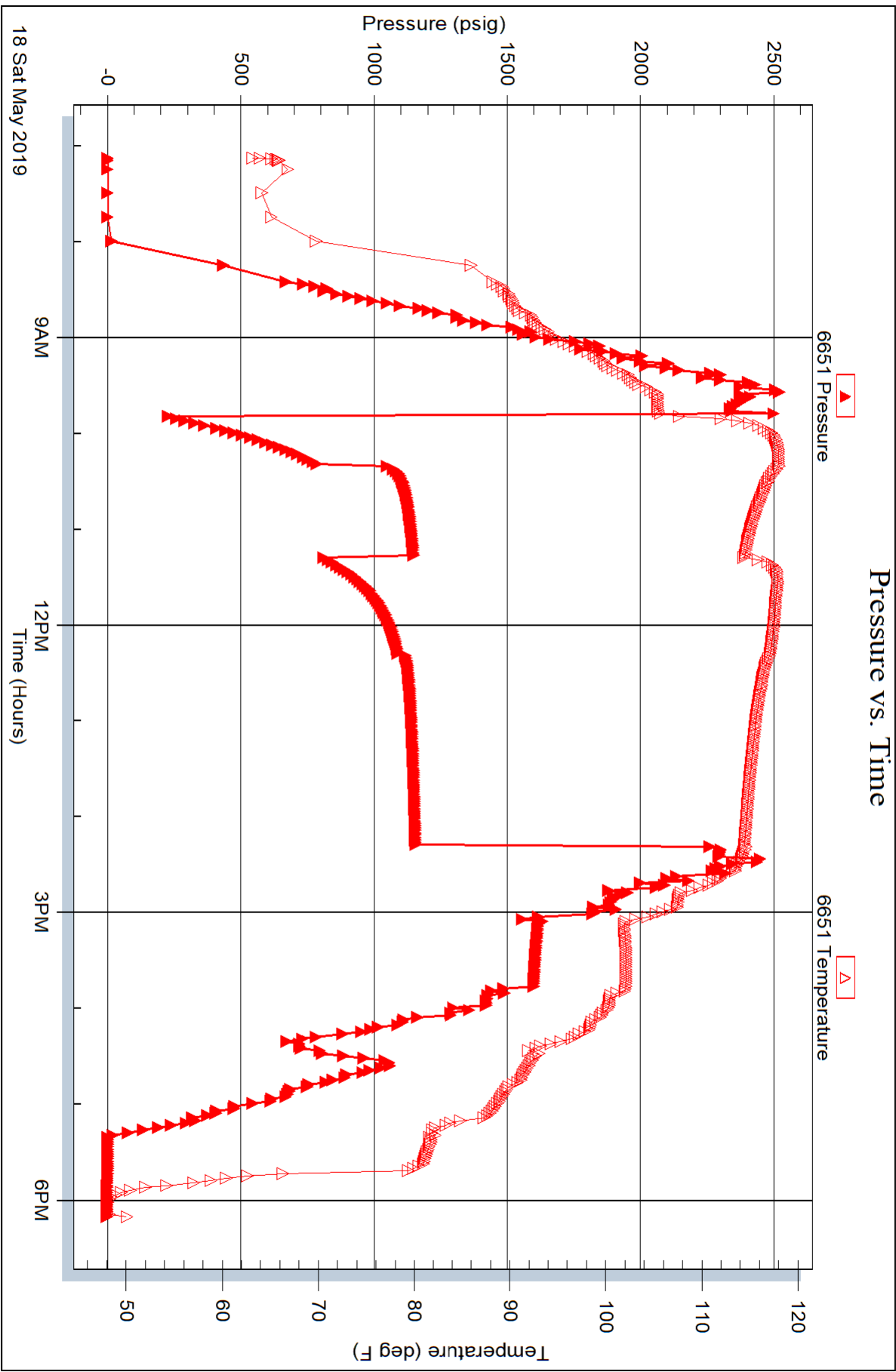
Serial #: 6651

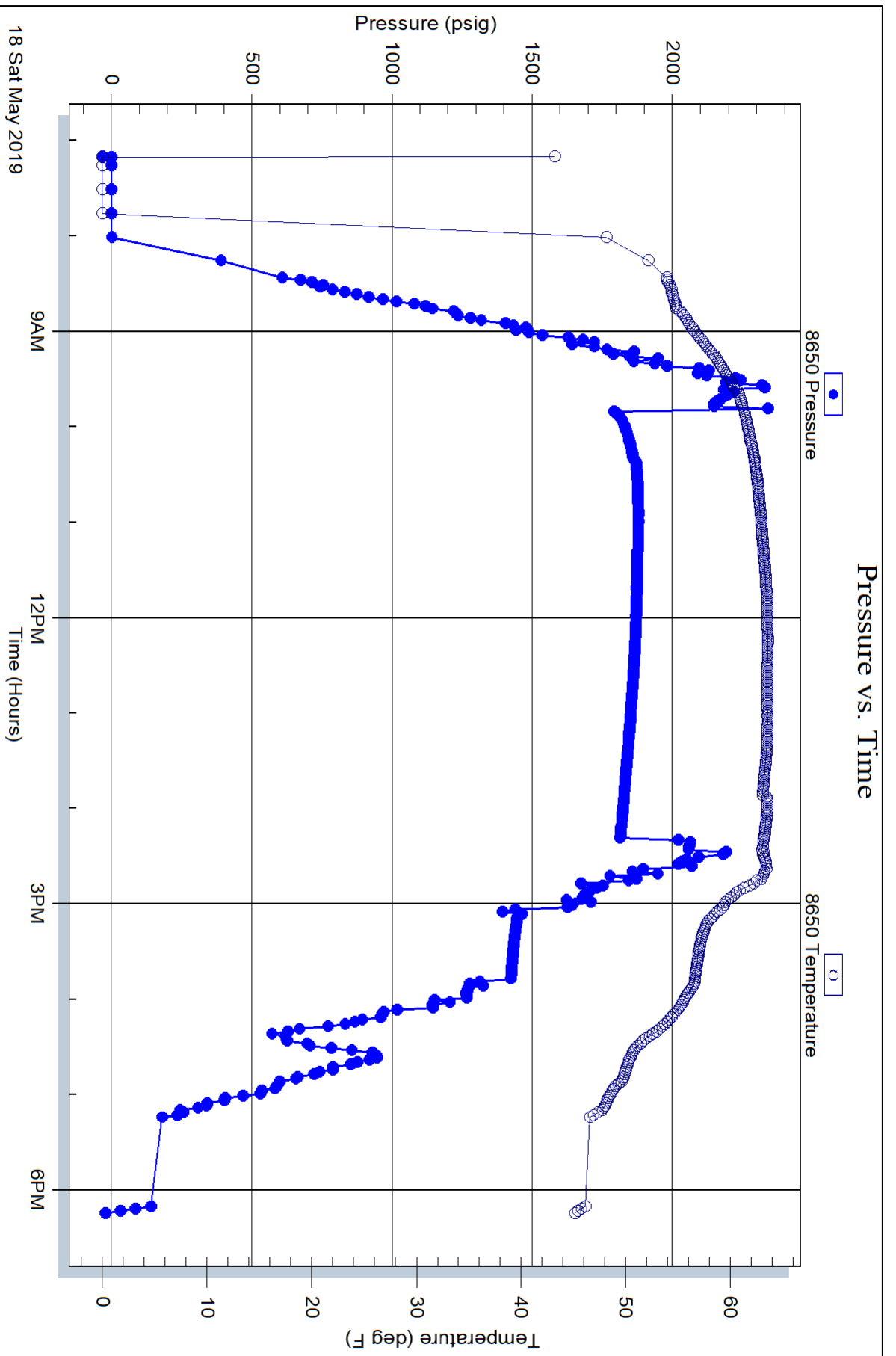
Inside

Berexco LLC

Kysar #1-19

DST Test Number: 5





DRILLING TIME & SAMPLE LOG

COMPANY Berexco LLC
 LEASE KYSAR NO. 1-19
 LOCATION 337'ENL+2010'FEL
 SEC. 19 TWP. 21S RNG. 35W
 COUNTY Kearyny, STATE Kansas
 FIELD Unnamed

ELEVATIONS
 KB 3205
 DF 3203
 GL 3193
 MEASUREMENTS ARE
 ALL FROM KB

CONTRACTOR Beredco Drig. Rig# 1

COMM. 4-30-2019 COMP. 5-17-2019

RTD 5075 LTD _____

No. of DST'S 3 No. of CORES None

SAMPLES SAVED FROM 3800 TO TD

DRILLING TIME KEPT FROM 3800 TO TD

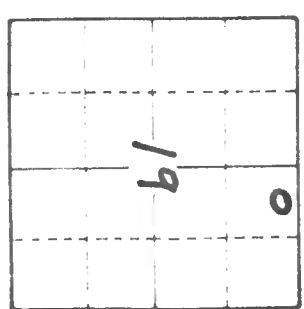
SAMPLES EXAMINED FROM 3800 TO TD

GEOLOGICAL SUPERVISION FROM 3800 TO TD

GEOLOGIST ON WELL Edwin H. Grievies

FORMATION TOPS

Base Heebner	SAMPLE	LOG	SUBSEA
Toronto	3953		
Lansing Fm.	3970		
Kansas City Fm.	4001		
BRC	4335		
Marathon Fm.	4473		
Pawnee	4498		
Ft Scott	4603		
Cherokee Fm.	4630		
Merrow Fm.	4648		
Merramec	4875		
TD	4950		
	5075		



LOG RECORD
 dt 1958 w/900 sx.
 dt _____ w/____ sx.
 dt _____ w/____ sx.
 dt _____ w/____ sx.

EL. LOG AGT Res. SPGR
 Den. Newt Co. Caliper
 M. Sonic

API# 15-039-21973

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3800 feet to total depth.

Thank you,
 Edwin H. Grievies
 Geologist

LITHOLOGY

	SANDSTONE		SILTSTONE
	LIMESTONE		DOLOMITE
	SHALE		GRANITE WASH
	CHERT		ANHY & GYP

CHROMATOGRAPH

HOT WIRE BY
 TOTAL GAS VOLUME

C1 = METHANE
 C2 = ETHANE
 C3 = PROPANE
 C4 = ISOBUTANE
 C5 = BUTANE
 C6 = ISOPENTANE
 C7 = PENTANE

SHALE
CHERT

GRANITE WASH
ANNY B GYP

TOTAL GAS VOLUME

C5 = BUTANE
C6 = ISOPENTANE
C7 = PENTANE

DRILL TIME
SCALE

SAMPLE DESCRIPTION

GAS SCALE

10 100 1000

5 10 15

3800

Interbedded Lmst. w/tas Shs
 1. Lms. huy. tes. wht. to cream-chlk + tan; crypto to v.v. fin. xln.; sub-chlk, sub-sucro; dul. yel. fluor.; No Cut; TRS. to huy. tes. pr. to fr. micro-pp por.

2. Lms. lt. to TRS. med. gry.; crypto to v. fin. xln.; sl. to v. Shly. for sl. to v. silty; sub-chlk for Shly. gr. to cak. Shs. TRS. sub-sucro.; No flour.; No Cut; No vis Por.

3. Sl. trs. Shs. med. to v. dak. gr. to blk.

Interbedded Lmst. w/tas shale
 Similar 3800-3866 w/huy. tes. Shs. med. to v. dak. gry + black-carb. looking

Interbedded Lmst w/tas Shales
 similar 3800-3866

3900

Lms. v. abn. wht. to cream-chlk + tan; crypto. to v.v. fin. xln.; trs. sub-chlk, sub-sucro. to sucro; dul. yel. fluor. IP's No Cut; abn. pr.; fr. to gr. micro-pp + prob. inter xln. por. IP's; w/trs chert H. gry. to tan, opque

Lmst H. gry. to grayish tan; crypto. to v.v. fin. xln.; trs. sub-chlk, sub-sucro + packstn.; dul. yel. fluor. IP's; No Cut No vis. por. w/lms. similar 3907-3983 w/huy. trs. chert lt. to med gry opque

Sh. v. dk. gry. to black-carb.

Sh. H. gry. to H. green - soft + mushy when wet; silty IP's

Lms. trs. to huy. tes. wht. to cream-chlk. and H. gry. - sl. shly to cream to tan; crypto. to v. v. fin. xln.; sub-chlk, sub-sucro. + packstn.; dul. yel. fluor. to dul. H. yel. fluor. IP's; No Cut TRS. pr. micro-pp por. IP's

4000

Interbedded Lmst + scattered thin Shs.
 1. Lms. huy. tes. to v. abn. wht. to cream-chlk + cream to H. tan; crypto. to v. v. fin. xln.; sub-chlk, sub-sucro, packstn. + trs. sub-lithogr.; dul. H. yel. to dul. yel. fluor. IP's; No Cut No vis Por

2. Lms. H. gry. grayish tan to tanish gry.; crypto. to v. v. fin. xln.; trs. sub-chlk, sub-sucro, packstn. + trs. to huy. tes. sub-lithogr.; trs. dul. yel. fluor.; No Cut No vis Por

3. scattered thin Shs. med to dk. gry. - calc to v. dk. gry to black-carb-looking

4. scattered trs chert H. to med. gr.

Base Hebbner
3953-3958

Toronto
3970-3975

Lansing Fm
4101-4106

sub-lithog.; trs. dul. yel. fluor.; No cut
No vis por

3. scattered thin shs. med to drk.
gray - calc to v. drk. gray to
black - carb-looking
4. scattered trs chert H. to med gray
opaque

Sh v. drk. gray. To black - carb looking

Interbedded lms + scattered thin shs.
1. Lms. trs. wht to cream - chalk + H. to tan;
crypto. to v. v. fin. xln.; trs. sub-chalk, sub-
sucro. + p. chert; dul. H. to yel.
fluor.; No cut; No vis por.
2. Lms. H. gray to grayish tan - sl. to fably.
shly. IP's. crypto. to v. v. fin. xln.;
sub-chalk, sub-sucro. and
p. chert; No fluor.; No cut; No vis por
3. scattered thin shs med to v. drk gray
and sl. trs black
4. scattered trs chert wht + H. to
med. gray - opaque

4175-4183 Lms. trs wht. to cream-
chalk + cream. to tan; crypto to v. v. fin.
xln.; trs sub-chalk, sub-sucro. to
trs. sucro.; p. chert; dul. H. to
H. yel. fluor.; No cut; hvy. trs. p. to tr.
+ trs. gd. micro-p. por. w/ hvy
trs. chert wht.; cream to gray.
opaque to trs. translucent.

4183-4206 Interbedded Limestones
w/ scattered sh chert similar to 4175

Sh v. drk. gray to black - carb-looking
sl. med to v. drk gray sl. to extremely calc
lms. H. gray, cream to tan; crypto to v. v. fin.
xln.; sub-chalk, sub-sucro. + p. chert; calcitic to
p. chert; dul. yel. to tan yel.
fluor.; No cut; abn. p. to hvy. trs. to trs.
excel. micro-p. por. to p. por. / trs.
chert H. gray - opaque

Lms. trs. wht. to cream - chalk + H. to tan; crypto
to tan; crypto to v. v. fin. xln.; sub-chalk, sub-
sucro. + p. chert; dul. yel. to tan yel. fluor.;
No cut; abn. p. to hvy. trs. to trs. excel. micro-
p. por. to p. por. / trs. chert H. gray - opaque

4230-46 Sh. v. drk. gray to black carb

4240-46 Sh. med to v. drk. gray - sl. to fably calc
4246-70 Lms. grayish tan to tan; crypto to
v. v. fin. xln.; sub-chalk, sub-sucro. and
p. chert; dul. yel. to yel. fluor.; No cut
No vis por

4270-4278 Lms. abn. wht. to cream - chalk
+ cream. to tan; crypto to v. v. fin. xln.
sub-chalk, sub-sucro. + p. chert; calcitic to
IP's; dul. yel. fluor.; No cut; abn. p. to hvy.
trs. gd. micro-p. por. to p. por.

4278-83 Lms similar to 4246-4270

Lms. hvy. trs. wht. to cream - chalk + tan;
crypto. to v. v. fin. xln.; calcitic to
p. chert; dul. yel. fluor.; No cut; abn. p. to hvy.
trs. gd. micro-p. por. to p. por. / trs. chert H. gray - opaque

Problems similar to 4246-4270

4100

4200

TRAP Check

4300

Lms. hv. tas. wht. to cream - chlk + tan; crypto. to v.v. xlu; j. extraly. oolitic; thin sli. oolitic lps. d. wh. gldn. to gldn. yel. fluor. j. mat. x. sub-sucro. of packstn.; No Cut; abn. qd. to exal. oolitic por. j. V. Quest. Perm.

4300

Problems similar 4246-4270

Sh. med. dk. gray to black - carb. looking
Lms. gray. H. to tan; crypto. to v.v. xlu;
sub-litho. q. d. yel. fluor. j. mat. x. sub-sucro. of packstn.; No Cut; abn. qd. to exal. oolitic por. j. V. Quest. Perm.

Kansas City "All Form"
4335-4330

Lms. tas. wht. to cream - chlk + tan. to tan, grayish. lps.; crypto. to v.v. xlu; sub-chlk. sub-sucro. + packstn.; dul. yel. to yel. fluor. lps.; No Cut; abn. pr. to ex. micro. pp + tas. pp. por. sli. tas. chert cream to gray. - opaque

Lms. tas. wht. to cream - chlk + tan. to tan; crypto. to v.v. xlu; tas. sub-chlk. sub-sucro. + packstn.; dul. yel. fluor. lps.; No Cut; No Vis. Por. w/ sli. tas. chert cream to gray opaque

Sh. v. dk. gray to black - carb. looking
Sh. med. to v. dk. gray - sli. to extraly. calc.

Lms. similar 4369-4387

Lms. v. abn. wht. to cream - chlk + tan. gray. lps.; crypto. to v.v. xlu; tas. sub-chlk. sub-sucro. + packstn.; ph. x. oolitic; lps. for ph. x. oolitic lps.; dul. yel. to yel. fluor. j. mat. x. sub-sucro. of packstn.; No Cut; abn. pr. to ex. micro. pp + tas. pp. por.

4400

Trap Check

Lms. tas. to hv. tas. wht. to cream - chlk + tan; grayish. tan to tan; crypto. to v.v. xlu; tas. sub-chlk. sub-sucro. packstn. + tas. sub-litho. opa. j. hv. tas. ph. x. oolitic; dul. H. to yel. + dul. yel. fluor. j. mat. x. sub-sucro. of packstn.; No Cut; No Vis. Por.; w/ tas. chert wht. to H. gray. - opaque

BKT
4473-1268

Lms. H. to med. gray. sli. to extraly. Sh. y. gray. to calc. sli.; crypto. to v.v. xlu; sub-chlk. + tan; tas. sub-sucro. + packstn.; No litho. opa.; No Cut; No Vis. Por.

Sh. med. gray. v. soft, mushy + sticky when wet; sli. to faly. calc.

4490-4510 Lms. tan; crypto. to v.v. xlu;

tas. sub-chlk. sub-sucro. + packstn.

4500

dul. yel. fluor. j. mat. x. sub-sucro. of packstn.; No Cut; No Vis. Por. w/ tas. chert cream, gray to tan, opa. to tan; 4510-4530 Lms. tas. wht. to cream - chlk + tan, grayish. lps.; crypto. to v.v. xlu; tas. sub-chlk. sub-sucro. + packstn.; w/ tas. sub-litho. opa. j. hv. tas. ph. x. oolitic; dul. gldn. yel. fluor. j. mat. x. sub-sucro. of packstn.; No Cut; No Vis. Por. w/ tas. chert H. to med. gray + tan opa.

4530-4553 Interbedded Limestr.

1. Faster Dalg. Lms. hv. tas. to tan; wht. to cream - chlk + tan; crypto. to v.v. xlu; sli. to extraly. oolitic; thin sli. oolitic; mat. x. sub-sucro. of packstn. + tas. sub-litho. opa. j. hv. tas. ph. x. oolitic; dul. gldn. yel. fluor. j. mat. x. sub-sucro. of packstn.; No Cut; No Vis. Por. w/ tas. chert H. to med. gray + tan opa.

4553-64 Lms. H. to med. gray. sli. to extraly. Sh. y. gray. to calc. sli.; crypto. to v.v. xlu; sub-chlk. + tan; tas. sub-sucro. + packstn.; No litho. opa.; No Cut; No Vis. Por.

4564-71 Lms. hv. tas. wht. to cream - chlk + tan, grayish. tan to tan; crypto. to v.v. xlu; sli. to v. oolitic; mat. x. sub-sucro. of packstn. + tas. sub-litho. opa. j. hv. tas. ph. x. oolitic; dul. gldn. yel. fluor. j. mat. x. sub-sucro. of packstn.; No Cut; No Vis. Por. w/ tas. chert H. to med. gray + tan opa.

Marmaton Form
4498-1293

Trap Check

DS

oolitic, matrix, tas. sub-chlk. sub-sucro
pachsta. tas. sub-lith. ool. tas. foss. large
dul. gl. du. tog. du. yel. fluor. j. No Cut
hv. ta. to zbn. pr. totat. to qd. oolitic
pp. + micro-pp. por. Quest. P. com.
Sh. v. dark gray to blk. carb.
4558-64 Lms. H. gray to tan; crypto to
v. v. fn. xlu. j. hv. tas. oolitic; sub-chlk. sub-sucro
+ pachsta. j. dul. yel. fluor. No Cut; No Vis. Por.
4564-71 Lms. tan to hv. tas. w/ fluor.
Chlk. + tan, grayish tan to tan; hv. gray; crypto
to v. v. fn. xlu. j. sl. to v. oolitic; matrix
sub-chlk. sub-sucro + tas. sub-lith. ool. + pachsta.
dul. gl. du. tog. du. yel. fluor. No Cut
tas. pr. to fr. pp. to mica pp. por.
in matrix; Quest. P. com.
4571-4572 Lms. tan; w/ fluor. Chlk. + tan
to grayish tan w/ tas. hv. gray - Sh. crypto to
v. v. fn. xlu. j. sub-chlk. sub-sucro of pachsta.
oolitic IP's; dul. yel. fluor. No Cut; No Vis. Por.
Poss Sh. v. dark gray to blk. carb.
90% sh. from 4485-4498 casing
4600-09 Lms. grayish tan w/ sh. dark blk. oil

Trap Check

4605-1398

sh. p. v. fn. xlu. j. ext. sacra; causable
dul. gl. du. tog. du. yel. fluor. flash to qd
streaming cut. pr. totat. to qd. mica pp.
por. + micro-pp. por.
4608-4615 Lms. wht to tan - chlk.,
w/ zbn w/ chlk. oolites; dul. yel. fluor.
fluor.; milky cut. oil in mud
tas. pr. micro-pp. por.; Quest. P. com.
4615-22 Lms. hv. tas. w/ fluor. -
chlk. w/ chlk. oolites IP's + tan w/
sh. dul. tan sp. to even oil sh. j.
crypto. to v. v. fn. xlu. j. tas. oolite
to hv. tas. phantom oolitic IP's
sub-chlk. sub-sucro. to v. sacra.
yel. fluor. IP's milky to qd. ring
cuts (oil in mud) zbn.
pr. fr. qd. to fr. excel. micro-pp
por.

Sh. v. dark gray to blk. carb.

4630-1495

Chert
4648-1493
Oil in Mud
Not Well
Only

4622-27 Lms. tan to gray + H. to med
gray - sl. to ext. shly. gray to
tb med. gray. calc. sh. j. crypto. to
v. v. fn. xlu. j. sub-chlk. + or shly.
sub-sucro + pachsta. j. v. dul. yel. fluor.
IP's; No Cut; No Vis. Por.
4627-4630 Sh. v. dark gray to blk. carb.
4630-4642 Lms. wht to crm -
chlk. + tan to H. gray - sl. shly. IP's
crypto. to v. v. fn. xlu. j. sub-chlk.
sub-sucro + pachsta. j. oolitic IP's
dul. yel. fluor. No Cut; No Vis. Por.
w/ hv. IP's zbn. Lm. tan w/ dark
tan oil sh. j. crypto. to v. v. fn. xlu. j.
v. to ext. shly. oolitic (tan + gray.)
matrix sub-chlk. sub-sucro to

4700

v. sacro + tas. No matrix; j. gl. to
brt. gl. du. yel. fluor. w/ flash to
excel. streaming cuts; zbn. pr. totat.
+ hv. tas. qd. to excel. p.p. micro-pp
+ inter. xlu. por. + trs. excel.
Int. oolitic por. w/ hv. tas.
loose oolites
4642-4648 Lms. H. gray to tan
crypto. to v. v. fn. xlu. j. v. oolitic
(mostly gray w/ tan) in matrix
sub-chlk. sub-sucro + pachsta.
dul. yel. fluor. IP's; No Cut;
No Vis. Por.
4648-53 Sh. v. dark gray to blk. carb.

4653-4875 Interbedded Lmst + Shs
1. Lms. H. gray to tan; crypto to w. h.
xlu. j. hv. tas. to abn. oolitic to
phantom oolitic; tas. sub-chlk. j.
sub-sucro. pachsta. + sub-lith. ool. j.
dul. yel. fluor. No Cut; No Vis. Por.
2. Lms. H. to med. gray - sl. to
ext. shly. gray. to v. calc. sh. j.
crypto. to v. v. fn. xlu. j.
sub-chlk. to shly. + pachsta.
No fluor. No Cut; No Vis. Por.
3. Sh. med. to v. dark gray - sl. to
ext. shly. calc. IP's
4. Sh. v. dark gray to blk. carb.
5. Scattered trs. Chert
tan, opque

4800

DST #1
DST #2
DST #3
DST #4
DST #5

4558
4564
4571
4600
4605
4608
4615
4622
4627
4630
4642
4648
4653
4875

sub-chalky, sp. calc. in.
No fluor. No Cut; No Vis Por.
3. Sh. med to v. drk gray - sl. to
extraly. calc. IPS

4. Sh. v. drk gray to black - carb
5. Scattered trs. Chert
tan, opaque

4800

Hot Wire
Saturated
Turned OFF

Marrow Fm
4875-4970

4875-4895 Sh. med. to drk. gray w/
zbn. grayish. green to greenish gray
& trs. blue greens & lt. greens

4895-4913 Shst + Lms
1. FASTER DRK shs similar 4875-4895

4900

2. Slower DRK Lms. lt. gray to tan,
mottled IPS; crypto to v.v. fu. xlu;
sl. to faly. foss. IPS; trs. phzntom oolitic
trs. sl. to faly. glauc; dul. yel. fluor. ;
No Cut; No Vis Por

4913-4922 Shs. med to drk. gray. w/ trs
bzazoin & huy trs grms. & sl. yel

4922-4950 Shst + Lms similar 4895-4913
w/ zbn bzazoin in sh. & zbn v. various
green shs; w/ trs Qtz Sdst wht, lt. gray
to lt. grn; v.v. fu. to siltstn, ang.;
pr to fe. sort.; clay filled; No fluor
No Cut; No Vis Por

Merzme
4950-4975

4950-4979 Lms. tan; crypto. to v.v. fu
xlu; extraly. micro-oolitic w/ huy trs
Qtz. grs - v.v. fu. gr. - ang.;
matrix sub-chlk, sub-sucro. and
trs. sucro; dul. yel. fluor. ;
No Cut; No Vis Por

5000

4979-5075 Lms. trs. to huy trs wht
to GRM-chlkt & grayish tan to tan;
crypto. to v.v. fu. xlu; faly to
extraly. oolitic (suc, med. & trs. lg)
matrix sub-chlk, sub-sucro &
packstn; dul. yel. to dul. lt. yel.
fluor.; No Cut; No Vis. Por.;
w/ sl. trs Chert tan, opaque

TD 5075

7 7/8" Bit Info:
1. New JZ-23-6 1960 in 5075TD out

CIR Points:

1. 4510	6. 4620	11. 4900
2. 4530	7. 4625	12. 4920
3. 4550	8. 4640	13. 4940
4. 4580	9. 4645	14. 4960
5. 4610	10. 4870	15. 5075TD

Dev. Surv.:

1. 1441 1/4°	3. 4610 3/4°
2. 1960 1/2°	4. 5075 TD

Daily Drlg. Progress

1. 3140	7AM	5-6-19
2. 3586	7AM	5-7-19
3. 4133	7AM	5-8-19
4. 4510	7AM	5-9-19
5. 4610	7AM	5-10-19
6. 4610	7AM	5-11-19
7. 4610	7AM	5-12-19
8. 4610	7AM	5-13-19
9. 4625	7AM	5-14-19
10. 4645	7AM	5-15-19
11. 4900	7AM	5-16-19
12. 5075TD	7AM	5-17-19

DST #1 U. Pawnee 4588-4610
 I.O. Fr. Building Blow 4.8 inches
 FO Fr. Building Blow 6 inches

Rec 120' M WTR oil 18 oil 60% wtr 39% mud
 BHT 111°F Rw .244 @ 64°F
 Chl 34000ppm Pit Chl 4400ppm
 IHP 2221#
 IFP 70-57# in 30 min
 JSIP 993# in 60 min
 FFP 81-99# in 60 min
 FSIP 994# in 120 min
 FHP 2188#

DST #3 FT Scott 4631-4645
 I.O BOB 9 min end 31.4 inches
 FO. Strong Building Blow 11.5 inches
 Rec 340 ft oil sp. 98% wtr
 5% gas sp. oil 95% wtr
 Chl 110000ppm Pit Chl 5000ppm
 Rw .075 @ 65°F Max Temp 114°F
 IHP 2275#
 IFP 97-117# in 30 min
 JSIP 218# in 60 min
 FFP 145-179# in 60 min
 FSIP 220# in 120 min
 FHP 2281

DST #2 L. Pawnee 4605-4625
 IO strong Building Blow 8.3 inches
 FO strg. Building Blow 8.8 inches
 Rec 180 ft muddy wtr.
 90% wtr 10% mud
 Rw .082 @ 70°F Chl 96000ppm
 pit Chl 5000ppm
 Max Temp 113°F
 IHP 2203#
 IFP 63-78# in 30 min

Rec 190ft muddy wtr.
 90% wtr 10% mud
 Rw .082 @ 70°F chl 96000ppm
 pit ch 5000ppm
 Max Temp 113°F
 IHP 2203#
 IFP 63-78# in 30 min
 ISIP 993# in 60 min
 FFP 88-124# in 60 min
 FSIP 995# in 120 min
 FHP 2180

Mud Info:	8% oil 8% oil							
Date	5-6	5-7	5-8	5-9	5-10	5-11	5-12	5-13
	6:30A	11:45A	7:45A	10:15A	9:30A	8:00A	8:30A	1:30A
Depth	3140	3687	4182	4530	4610	4610	4610	4610
Wt.	9.3	8.6	9.3	9.3	9.1	9.1	9.1	9.1
Vis	29	56	50	61	58	65	64	65
PV	-	17	15	18	17	18	18	18
YP	-	21	18	22	21	22	17	17
GS	-	14/37	12/34	16/38	15/36	16/37	14/36	15/36
WL	N/C	6.4	7.2	7.2	6.4	6.4	4.8	5.6
Cake	-	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	7.0	11.0	10.0	10.5	10.5	10.0	9.0	9.0
Chl	56000	3100	3800	3000	4000	4000	4400	5000
Ca	Hvy	40	40	20	40	40	40	40
LCM	2.0	2.0	1.0	1.0	1.0	2.0	2.0	1.0

	6% oil 5% oil 4% oil							
Date	5-14	5-15	5-16					
	7:30A	6:30A	8:00P					
Depth	4625	4645	4960					
Wt.	9.1	9.1	9.2					
Vis	63	43	75					
PV	18	11	7					
YP	17	9	41					
GS	15/35	7/24	22/75					
WL	6.4	6.0	8.0					
Cake	1/32	1/32	2/32					
pH	10.5	11.0	10.5					
Chl	5000	6000	5000					
Ca	40	20	40					
LCM	1.0	2.0	2.0					

OPERATOR Berexco LLC LOCATION 337'FNL + 2010'FEL
 LEASE Kys2R NO. 1-19 SEC. 19 TWP. 21S RANG. 35W
 ELEVATION 3205KB RTD 5075 COUNTY Kearny STATE Kansas