

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)</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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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	KARLIN B 3
Doc ID	1655875

All Electric Logs Run

Induction
Microlog
Porosity
Guard log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	KARLIN B 3
Doc ID	1655875

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	3200	3203			1000 gal 15% NEFE
4	3444	3449			1000 gal 15% NEFE
4	3385	3390			1000 gal 15% NEFE
4	3331	3334			1000 gal 15% NEFE
4	3200	3203			750 gal 15% NEFE, reacidized w/ 750 gal 15% NEFE
4	3430	3436			750 gal 15% NEFE, reacidized w/ 750 gal 15% NEFE
4	3590	3596			1000 gal 15% NEFE
4	3633	3637			300 gal 15% NEFE



# QUALITY WELL SERVICE, INC.

7916

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410  
Fax 620-672-3663

Rich's Cell 620-727-3409  
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish		
3-22-22	1	12S	13W	Ellis	Ks				
Lease	Kaelin		Well No.	B-3				Location	HALL'S N on 122 to SEVERIN Rd
Contractor	Southwind Dr/G B6#8			Owner	LE to 260" AVE L I W E. HO				
Type Job	Surface			To Quality Well Service, Inc.					
Hole Size	12 1/4		T.D.	265'				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Csg.	8 5/8 23"		Depth	263'				Charge To	REVERO LLC
Tbg. Size			Depth					Street	
Tool			Depth					City	State
Cement Left in Csg.			Shoe Joint	20				The above was done to satisfaction and supervision of owner agent or contractor.	
Meas Line			Displace	15.55				Cement Amount Ordered	175 SL Common
<b>EQUIPMENT</b>				2 1/2" Gel 3 1/2" CC 1/2" PS					
Pumptrk	9	No.		Common				175 SL	
Bulktrk	10	No.		Poz. Mix					
Bulktrk		No.		Gel.				329#	
Pickup		No.		Calcium				494#	
<b>JOB SERVICES &amp; REMARKS</b>				Hulls					
Rat Hole				Salt					
Mouse Hole				Flowseal				83"	
Centralizers				Kol-Seal					
Baskets				Mud CLR 48					
D/V or Port Collar				CFL-117 or CD110 CAF 38					
Run	Hole 8 5/8 23" Csg SET @ 263'			Sand					
	START Csg csg on Bottom			Handling				190	
	Hook up to Csg: Break circ w/1 1/4			Mileage				40 / 7600	
	START Pumping H2O			<b>FLOAT EQUIPMENT</b>					
	START Mix: Pump 175 SL Common			Guide Shoe					
	2 1/2" Gel 3 1/2" CC 1/2" PS @ 14.3 1/2 Gal			Centralizer					
	START Disp			Baskets					
	Plug 15.55 346			AFU Inserts					
	Close valves on Csg			Float Shoe					
	Good circ thru TOB			Latch Down				add Holes 3 Holes	
	Circ cut TO PIT			SERVICE Sp. LEA					
				LUV 40					
				Pumptrk Charge				SURFACE	
				Mileage				90	
	TITANIUM							Tax	
	PLEASE CALL AGAIN							Discount	
	TODD MILKE Nathan							Total Charge	
X	Signature			Doy Robert					

# QUALITY WELL SERVICE, INC.

7925

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-31-22	1	12S	18W	Ellis	Ks		
Lease <u>Karlina</u>	Well No. <u>B-3</u>	Location <u>HAYS KS W ON HWY 183 TO SEVERINO RD</u>					
Contractor <u>Southern D&amp;G Rig #8</u>	Owner <u>E to 260th 11 W E into 12</u>						
Type Job <u>5 1/2 L's</u>	To Quality Well Service, Inc. 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 <u>7 7/8</u>	T.D. <u>3750'</u>	Charge To <u>BEREXCO LLC</u>					
Csg. <u>5 1/2 14"</u>	Depth <u>3745'</u>	Street					
Tbg. Size	Depth	City					
Tool	Depth	State					
Cement Left in Csg.	Shoe Joint <u>79.9</u>	The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line	Displace <u>89.43</u>	Cement Amount Ordered <u>232 sz Common</u>					
<b>EQUIPMENT</b>				<u>2 1/2 GAL 10% SALT 5 1/4 VOLKREAL 1/4' PS</u>			
Pumptrk <u>8</u> No.		Common <u>232 sz</u>					
Bulktrk <u>10</u> No.		Poz. Mix					
Bulktrk No.		Gel. <u>437 #</u>					
Pickup No.		Calcium					
<b>JOB SERVICES &amp; REMARKS</b>				<b>FLOAT EQUIPMENT</b>			
Rat Hole <u>35 cc</u>				Hulls			
Mouse Hole <u>16-13-70 57</u>				Salt <u>1770 #</u>			
Centralizers <u>1-7-3-4-5-6-7-8-9-10-12-14-150</u>				Flowseal <u>58 #</u>			
Baskets <u>57-60 PLD 59 = 1352'</u>				Kol-Seal <u>1152 #</u>			
D/V or Port Collar				Mud CLR 48			
<u>Run 92 ft's 5 1/2 14" csg set at 3745'</u>				CFL-117 or CD110 CAF 38			
<u>START csg csg on Bottom TAG</u>				Sand			
<u>Hook up to csg! Break circ at 216</u>				Handling <u>232</u>			
<u>DRSD Bull circ at 216</u>				Mileage <u>40/11730</u>			
<u>Pump H2O DHEAD</u>							
<u>PLD R-14 35 cc</u>				Guide Shoe			
<u>START mix Pump 195 cc @ 14.8"/CAL</u>				Centralizer <u>13 FA</u>			
<u>SHUT down work up to Release 5 1/2 L's</u>				Baskets <u>2 FA</u>			
<u>START DISO</u>				AFU-Inserts Port Collar <u>1 FA</u>			
<u>LEFT PS 71 at 600'</u>				Float Shoe <u>1 FA</u>			
<u>PLD D/W 91 at 1200'</u>				Latch Down <u>1 FA</u>			
<u>PS up csg 1700'</u>				SERVICE Spv <u>1 FA</u>			
<u>RELEASE! HELD 1/2 HR BACK</u>				LMV <u>40</u>			
<u>Good csg thru 203</u>				Pumptrk Charge <u>LS</u>			
<u>THANK YOU</u>				Mileage <u>80</u>			
<u>Please Call AGAIN TUNA Mike Brown</u>							
X Signature				Tax			
				Discount			
				Total Charge			



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Llc.  
2020 N. Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

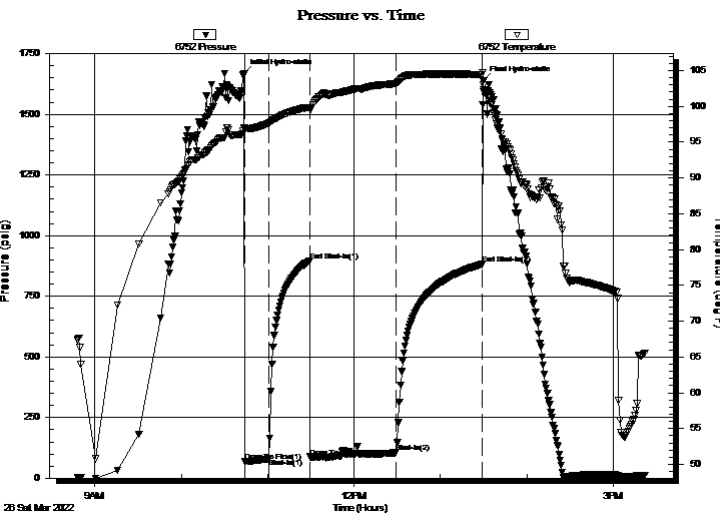
**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
Job Ticket: 68234      **DST#: 1**  
Test Start: 2022.03.26 @ 08:48:01

## GENERAL INFORMATION:

Formation: **LKC A,B,C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:44:17  
 Time Test Ended: 15:22:02  
 Interval: **3620.00 ft (KB) To 3350.00 ft (KB) (TVD)**  
 Total Depth: 3350.00 ft (KB) (TVD)  
 Hole Diameter: 7.78 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Webster  
 Unit No: 72  
 Reference Elevations: 2118.00 ft (KB)  
 2108.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6752      Outside**  
 Press@RunDepth: 105.66 psig @ 3347.00 ft (KB)      Capacity:      psig  
 Start Date: 2022.03.26      End Date: 2022.03.26      Last Calib.: 2022.03.26  
 Start Time: 08:48:01      End Time: 15:22:02      Time On Btm: 2022.03.26 @ 10:43:32  
 Time Off Btm: 2022.03.26 @ 13:29:47

**TEST COMMENT:** 15 min IF-WSB built to 3.5"  
 30 min ISI- No returns  
 60 min FF- WSB built to 7"  
 60 min FSI- No returns



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1666.46	97.08	Initial Hydro-static
1	69.97	96.89	Open To Flow (1)
18	80.21	97.68	Shut-In(1)
46	896.18	99.86	End Shut-In(1)
46	87.76	99.60	Open To Flow (2)
106	105.66	103.23	Shut-In(2)
166	882.41	104.45	End Shut-In(2)
167	1638.50	102.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
102.00	VSOCM 1%O 99% M	1.43

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Berexco LLC.  
2020 N. Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
Job Ticket: 68234      **DST#: 1**  
Test Start: 2022.03.26 @ 08:48:01

### Mud and Cushion Information

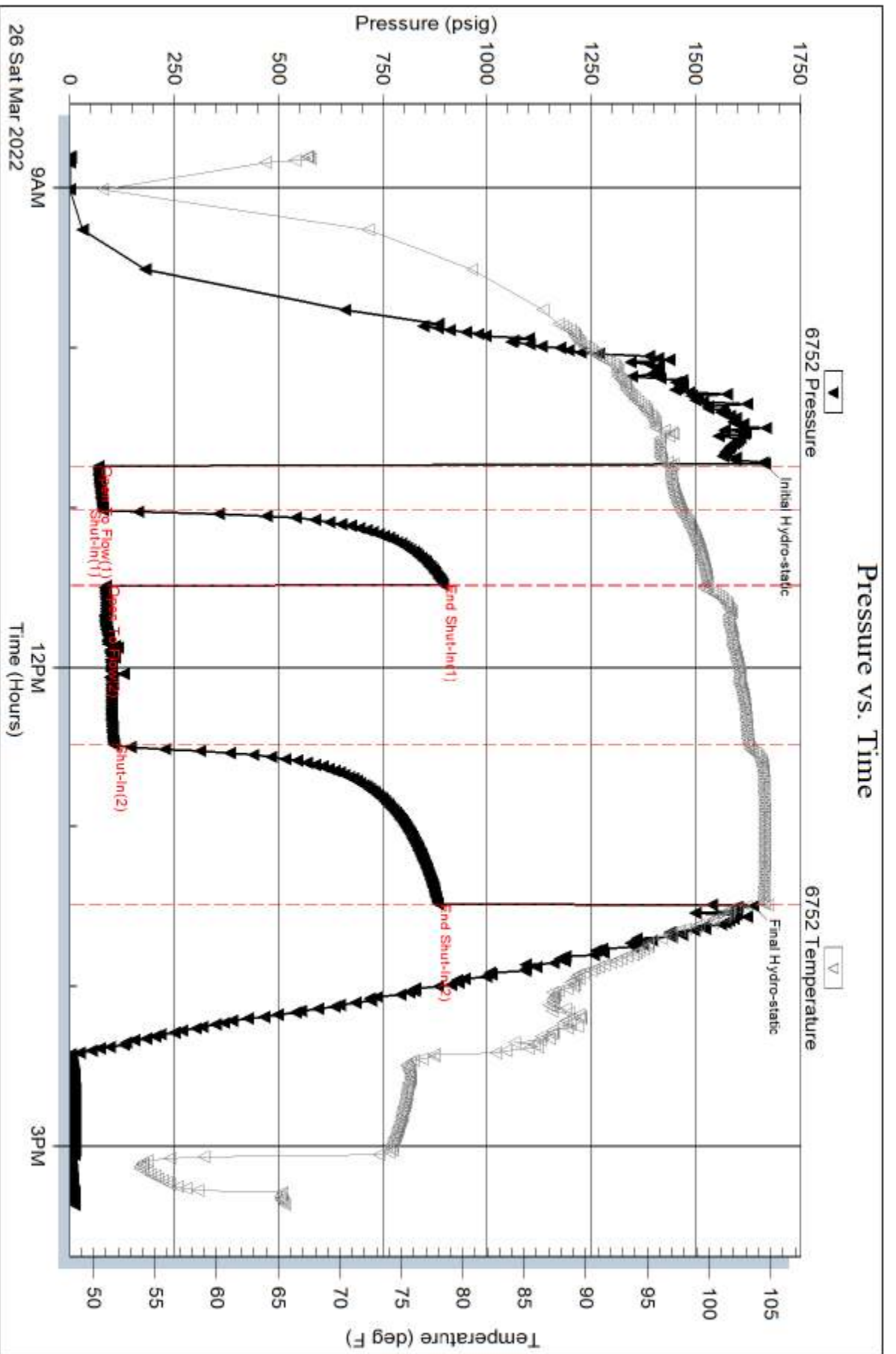
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 70.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
102.00	VSOCM 1%O 99% M	1.431

Total Length: 102.00 ft      Total Volume: 1.431 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 3.5# LCM





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Llc.  
 2020 N. Bramblewood  
 Wichita, KS 67206  
 ATTN: Bryan Bynog

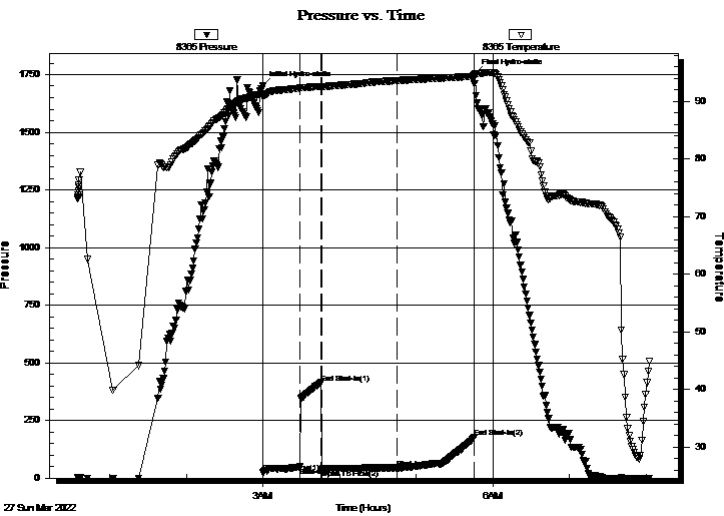
**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
 Job Ticket: 68235 **DST#: 2**  
 Test Start: 2022.03.27 @ 00:35:00

## GENERAL INFORMATION:

Formation: **E,F,G**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:00:02  
 Time Test Ended: 08:03:02  
 Interval: **3340.00 ft (KB) To 3410.00 ft (KB) (TVD)**  
 Total Depth: 3410.00 ft (KB) (TVD)  
 Hole Diameter: 7.78 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Kevin Webster  
 Unit No: 72  
 Reference Elevations: 2118.00 ft (KB)  
 2108.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8365 Outside**  
 Press@RunDepth: 41.21 psig @ 3407.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.27 End Date: 2022.03.27 Last Calib.: 2022.03.27  
 Start Time: 00:35:01 End Time: 08:03:02 Time On Btm: 2022.03.27 @ 02:59:47  
 Time Off Btm: 2022.03.27 @ 05:46:02

**TEST COMMENT:** 15min IF- WSB Died in 6 min  
 30 min ISI- No returns  
 60 min FF- No blow  
 60 min FSI No returns



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.44	91.20	Initial Hydro-static
1	23.67	90.83	Open To Flow (1)
29	48.53	92.25	Shut-In(1)
46	413.88	92.55	End Shut-In(1)
46	38.35	92.44	Open To Flow (2)
106	41.21	93.58	Shut-In(2)
166	176.32	94.35	End Shut-In(2)
167	1755.31	94.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% Mud	0.28

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco LLC.  
2020 N. Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
Job Ticket: 68235      **DST#: 2**  
Test Start: 2022.03.27 @ 00:35:00

## 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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

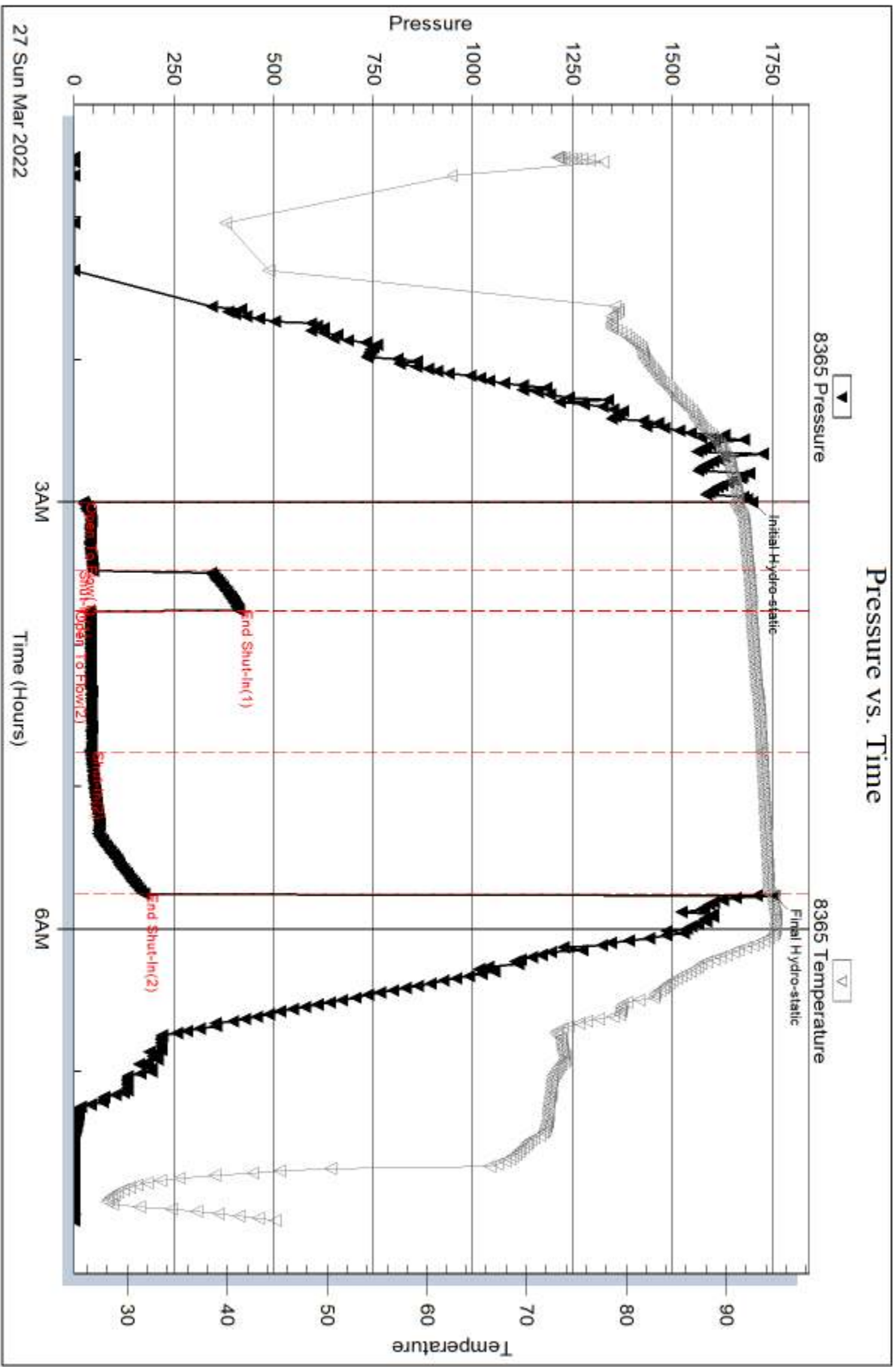
Length ft	Description	Volume bbl
20.00	100% Mud	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

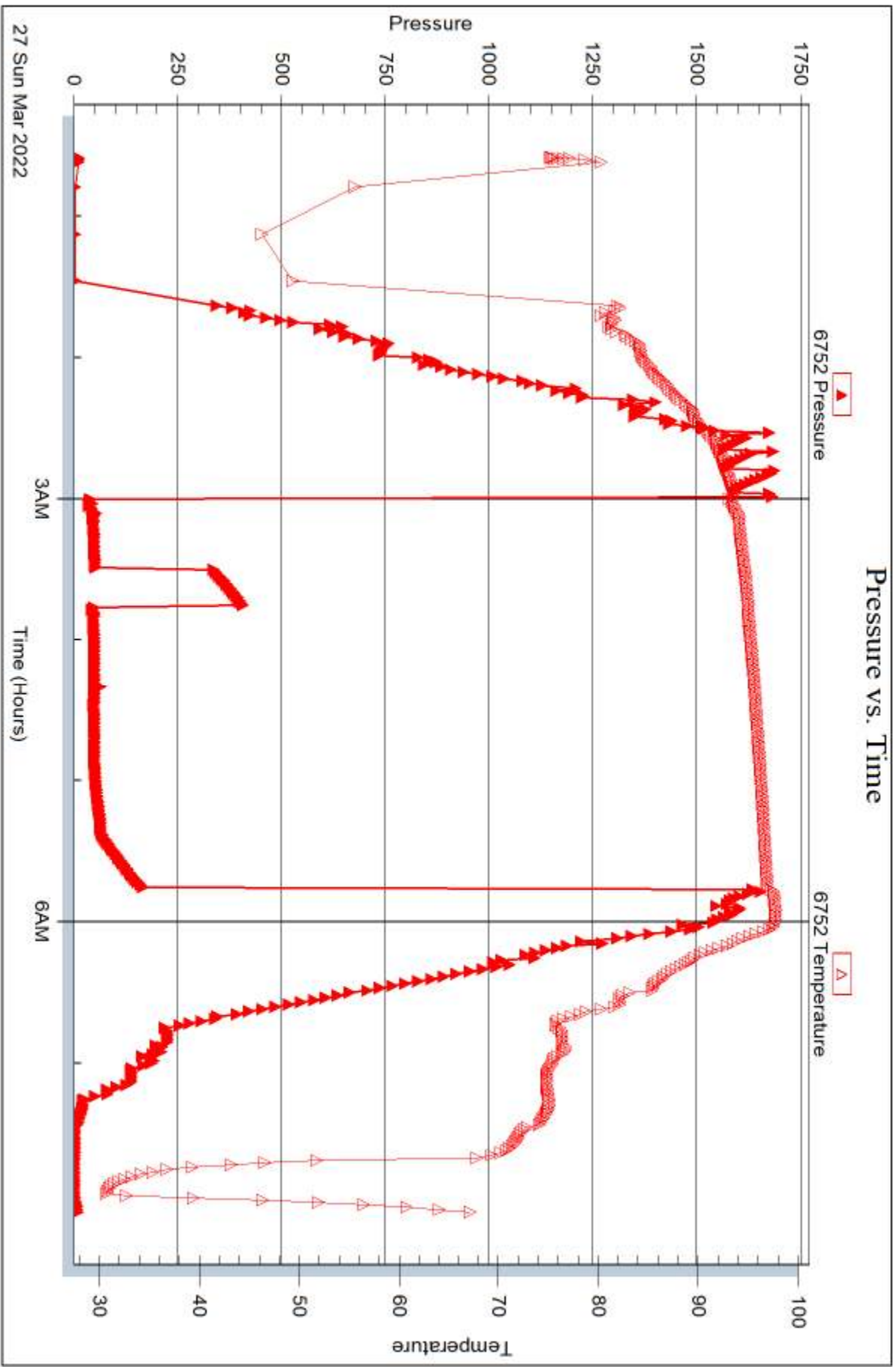


Serial #: 6752

Outside Berexco Lc.

Karlin B#3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68235

Printed: 2022.03.27 @ 08:48:31



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Llc.  
 2020 N. Bramblewood  
 Wichita, KS 67206  
 ATTN: Bryan Bynog

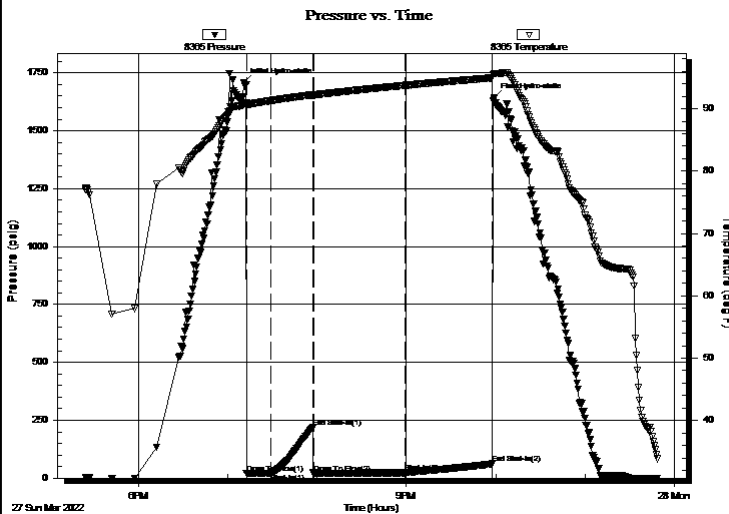
**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
 Job Ticket: 68236 **DST#: 3**  
 Test Start: 2022.03.27 @ 17:25:00

## GENERAL INFORMATION:

Formation: **H,I,J**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 19:12:47 Tester: Kevin Webster  
 Time Test Ended: 23:49:02 Unit No: 72  
 Interval: **3410.00 ft (KB) To 3485.00 ft (KB) (TVD)** Reference Elevations: 2118.00 ft (KB)  
 Total Depth: 3485.00 ft (KB) (TVD) 2108.00 ft (CF)  
 Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

**Serial #: 8365 Outside**  
 Press@RunDepth: 23.45 psig @ 3482.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.27 End Date: 2022.03.27 Last Calib.: 2022.03.27  
 Start Time: 17:25:01 End Time: 23:49:02 Time On Btm: 2022.03.27 @ 19:11:02  
 Time Off Btm: 2022.03.27 @ 21:58:47

**TEST COMMENT:** 15 min IF- WSB built to 1/2"  
 30 min ISI- No returns  
 60 min FF- WSB died in 8 min  
 60 min FSI- No returns



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.08	90.62	Initial Hydro-static
2	19.89	90.58	Open To Flow (1)
18	21.20	91.30	Shut-In(1)
47	220.15	92.21	End Shut-In(1)
47	21.17	92.21	Open To Flow (2)
108	23.45	93.74	Shut-In(2)
167	61.98	94.99	End Shut-In(2)
168	1640.78	95.59	Final Hydro-static

## Recovery

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

Berexco LLC.  
2020 N. Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
Job Ticket: 68236      **DST#: 3**  
Test Start: 2022.03.27 @ 17:25:00

## Mud and Cushion Information

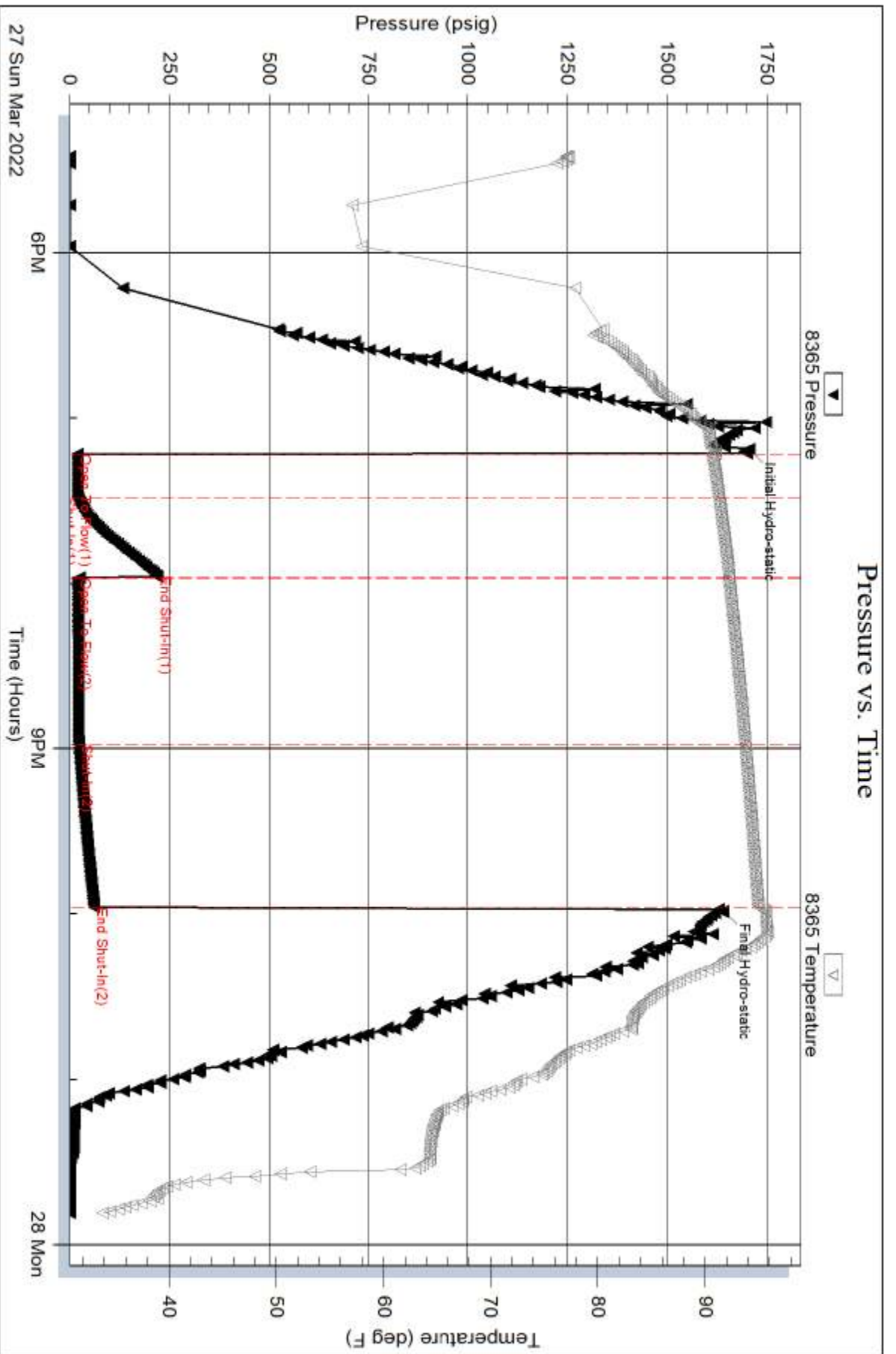
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 90.00 sec/qt	Cushion Volume: bbl		
Water Loss: 15.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 21000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	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: 2# LCM

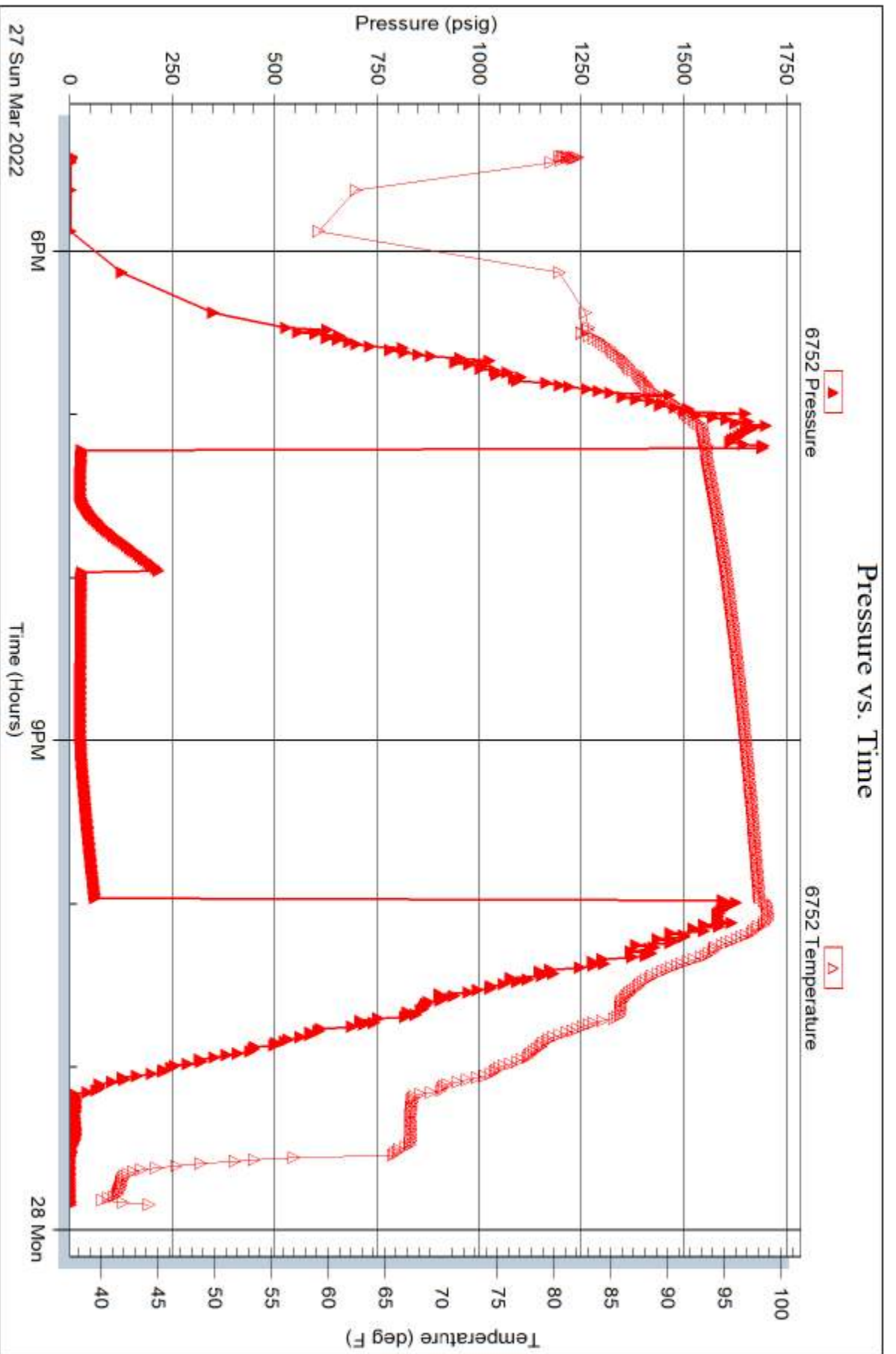


Serial #: 6752

Outside Berexco Lc.

Karlin B#3

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68236

Printed: 2022.03.28 @ 05:38:12



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Llc.  
 2020 N. Bramblewood  
 Wichita, KS 67206  
 ATTN: Bryan Bynog

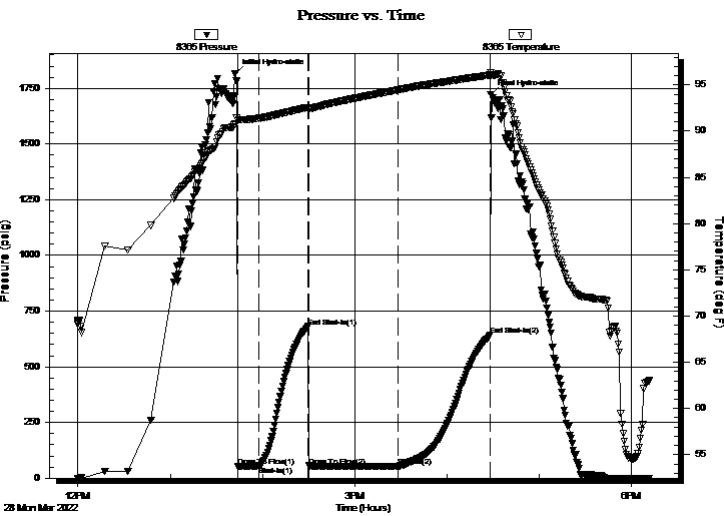
**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
 Job Ticket: 68237 **DST#: 4**  
 Test Start: 2022.03.28 @ 12:00:00

## GENERAL INFORMATION:

Formation: **K and Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 13:43:47 Tester: Kevin Webster  
 Time Test Ended: 18:12:02 Unit No: 72  
 Interval: **3470.00 ft (KB) To 3555.00 ft (KB) (TVD)** Reference Elevations: 2118.00 ft (KB)  
 Total Depth: 3555.00 ft (KB) (TVD) 2108.00 ft (CF)  
 Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

**Serial #: 8365 Outside**  
 Press@RunDepth: 53.52 psig @ 3552.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.28 End Date: 2022.03.28 Last Calib.: 2022.03.28  
 Start Time: 12:00:01 End Time: 18:12:02 Time On Btm: 2022.03.28 @ 13:42:17  
 Time Off Btm: 2022.03.28 @ 16:28:17

**TEST COMMENT:** 15 min IF- WSB built to 1/4"  
 30 min FSI- No returns  
 60 min FF- WSB blow died in 46 min  
 60 min FSI- No returns



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.42	90.75	Initial Hydro-static
2	53.32	91.14	Open To Flow (1)
16	54.37	91.39	Shut-In(1)
48	680.32	92.53	End Shut-In(1)
48	55.31	92.36	Open To Flow (2)
106	53.52	94.44	Shut-In(2)
166	641.03	96.07	End Shut-In(2)
166	1722.38	96.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 10% O 90% M	0.14

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco LLC.  
2020 N. Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
Job Ticket: 68237      **DST#: 4**  
Test Start: 2022.03.28 @ 12:00:00

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 10% O 90% M	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 2# LCM



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Llc.  
 2020 N. Bramblewood  
 Wichita, KS 67206  
 ATTN: Bryan Bynog

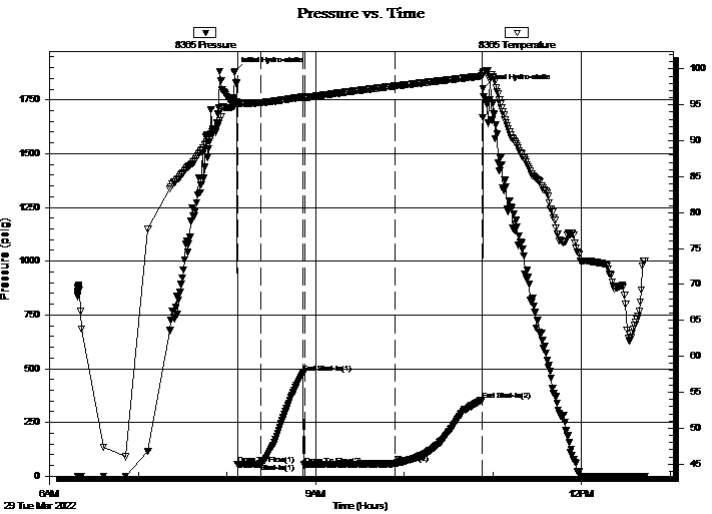
**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
 Job Ticket: 68238 **DST#: 5**  
 Test Start: 2022.03.29 @ 06:19:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 08:07:02 Tester: Kevin Webster  
 Time Test Ended: 12:43:02 Unit No: 72  
 Interval: **3545.00 ft (KB) To 3638.00 ft (KB) (TVD)** Reference Elevations: 2118.00 ft (KB)  
 Total Depth: 3638.00 ft (KB) (TVD) 2108.00 ft (CF)  
 Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

**Serial #: 8365 Outside**  
 Press@RunDepth: 59.68 psig @ 3635.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.29 End Date: 2022.03.29 Last Calib.: 2022.03.29  
 Start Time: 06:19:01 End Time: 12:43:02 Time On Btm: 2022.03.29 @ 08:05:17  
 Time Off Btm: 2022.03.29 @ 10:53:17

**TEST COMMENT:** 15 min IF- WSB built to 1/2"  
 30 min IS- No returns  
 60 min FF- WSB built to 2"  
 60 min FSI- No returns



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1882.37	95.03	Initial Hydro-static
2	55.19	95.12	Open To Flow (1)
18	58.90	95.32	Shut-In(1)
47	478.92	96.07	End Shut-In(1)
48	52.27	96.03	Open To Flow (2)
109	59.68	97.62	Shut-In(2)
167	352.57	99.02	End Shut-In(2)
168	1801.62	99.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM70% M30% O	0.14

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Berexco LLC.  
2020 N. Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
Job Ticket: 68238      **DST#: 5**  
Test Start: 2022.03.29 @ 06:19:00

### Mud and Cushion Information

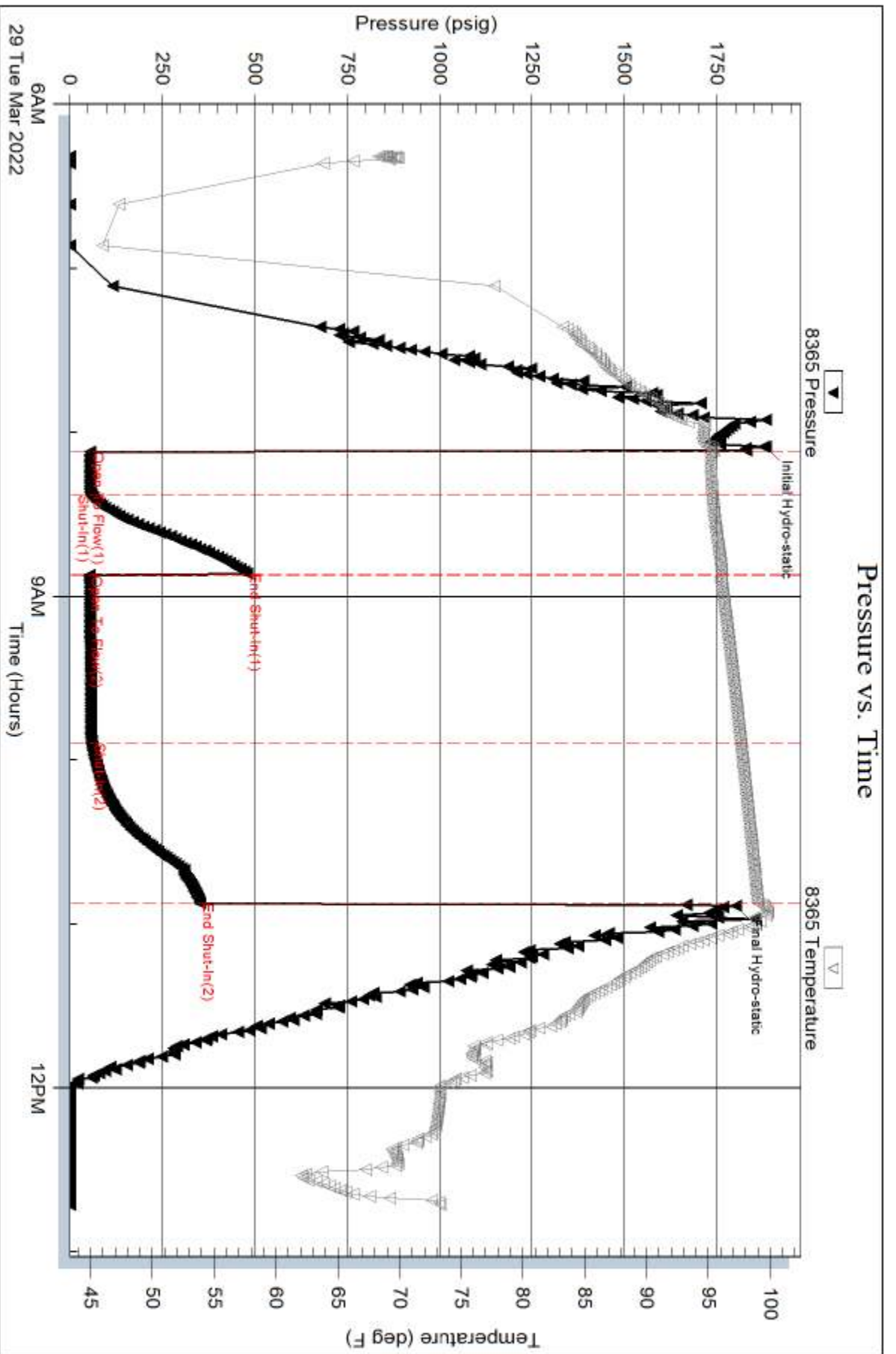
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 70% M 30% O	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 2# LCM

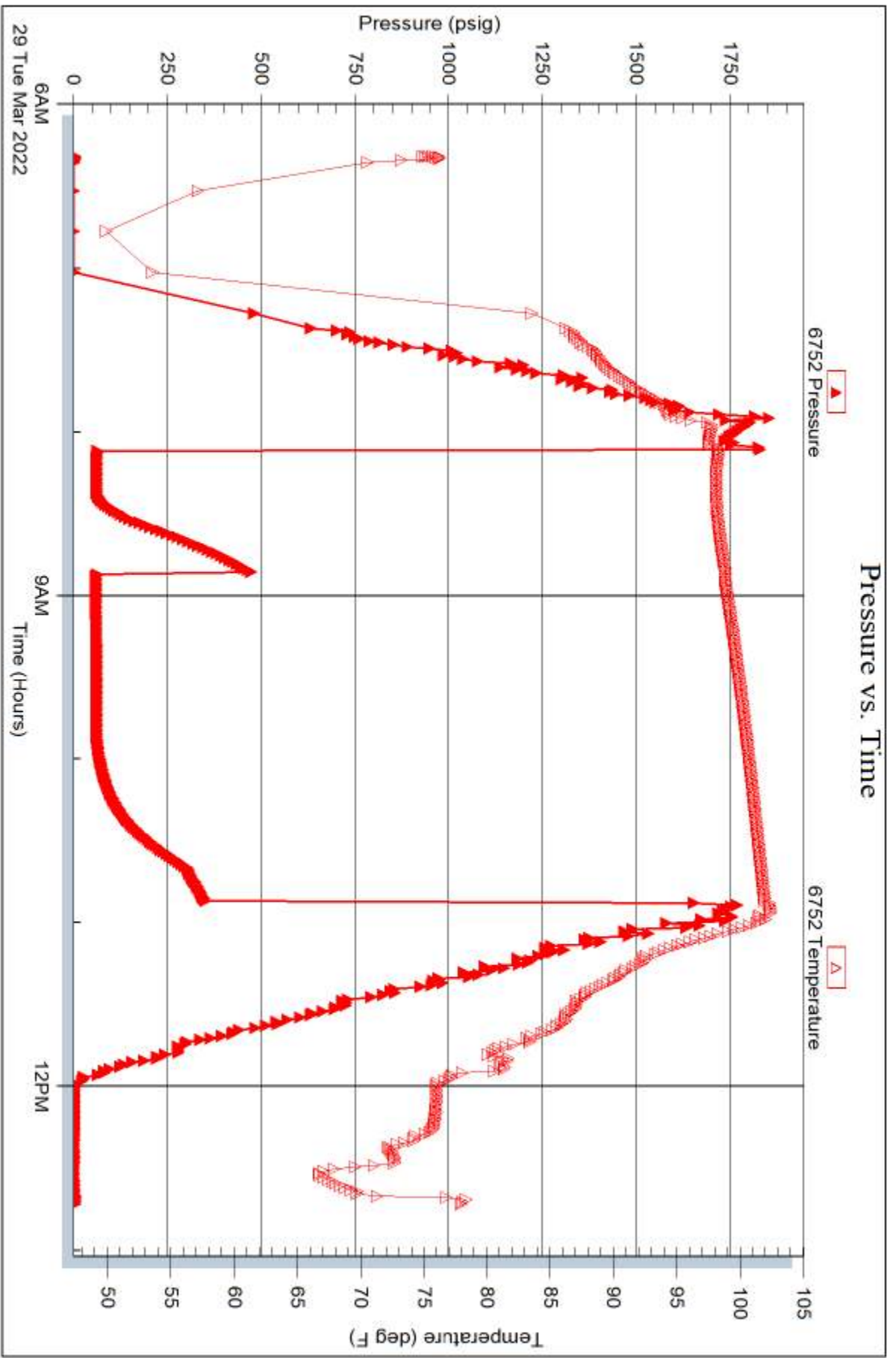


Serial #: 6752

Outside Berexco Lc.

Karlin B#3

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 68238

Printed: 2022.03.29 @ 13:13:03



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Llc.  
2020 N. Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
Job Ticket: 68239 **DST#: 6**  
Test Start: 2022.03.30 @ 21:00:00

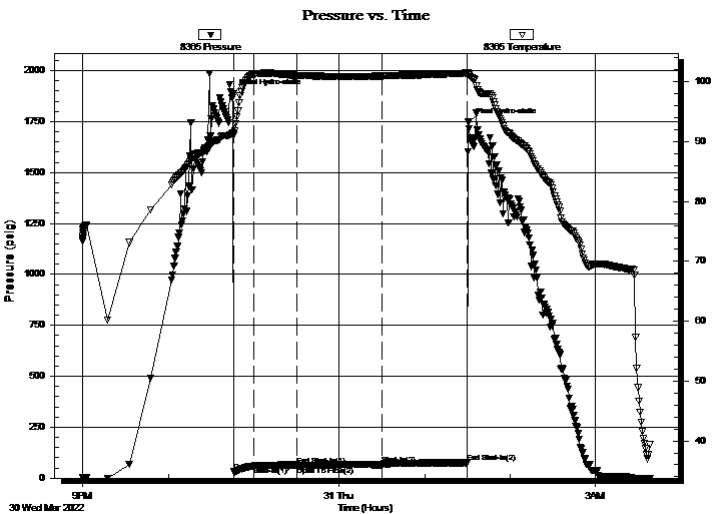
## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:45:47  
Time Test Ended: 03:38:02  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Kevin Webster  
Unit No: 72  
Interval: **3635.00 ft (KB) To 3653.00 ft (KB) (TVD)**  
Reference Elevations: 2118.00 ft (KB)  
Total Depth: 3653.00 ft (KB) (TVD) 2108.00 ft (CF)  
Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

**Serial #: 8365 Outside**  
Press@RunDepth: 67.19 psig @ 3650.00 ft (KB) Capacity: psig  
Start Date: 2022.03.30 End Date: 2022.03.31 Last Calib.: 2022.03.30  
Start Time: 21:00:01 End Time: 03:38:02 Time On Btm: 2022.03.30 @ 22:45:32  
Time Off Btm: 2022.03.31 @ 01:30:47

**TEST COMMENT:** 15 min IF- Strong blow , BOB 5 min  
30 min ISL- No returns  
60 min FF WSB built to 1"  
60 min FSI- No returns

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1888.30	91.52	Initial Hydro-static
1	32.28	91.06	Open To Flow (1)
15	59.24	101.26	Shut-In(1)
45	65.19	101.09	End Shut-In(1)
45	60.18	101.09	Open To Flow (2)
105	67.19	100.99	Shut-In(2)
164	76.04	101.46	End Shut-In(2)
166	1747.46	101.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOMCW 5% G 30% O 40% W 25% M	0.87
62.00	MW 65% W 35% M	0.87

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Berexco LLC.  
2020 N. Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

**1-12s-13w, Ellis, KS**  
**Karlin B #3**  
Job Ticket: 68239      **DST#: 6**  
Test Start: 2022.03.30 @ 21:00:00

### Mud and Cushion Information

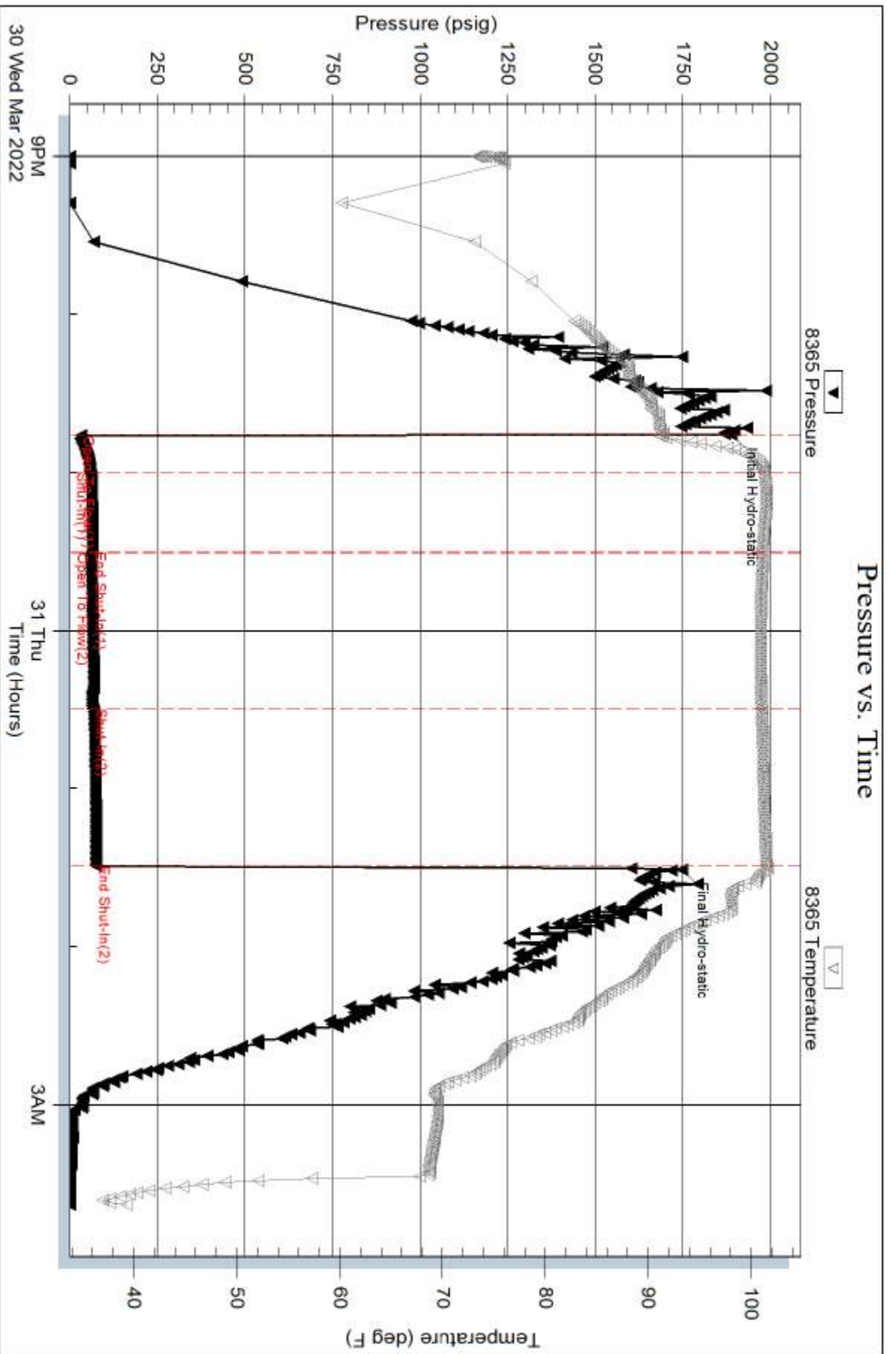
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

### Recovery Information

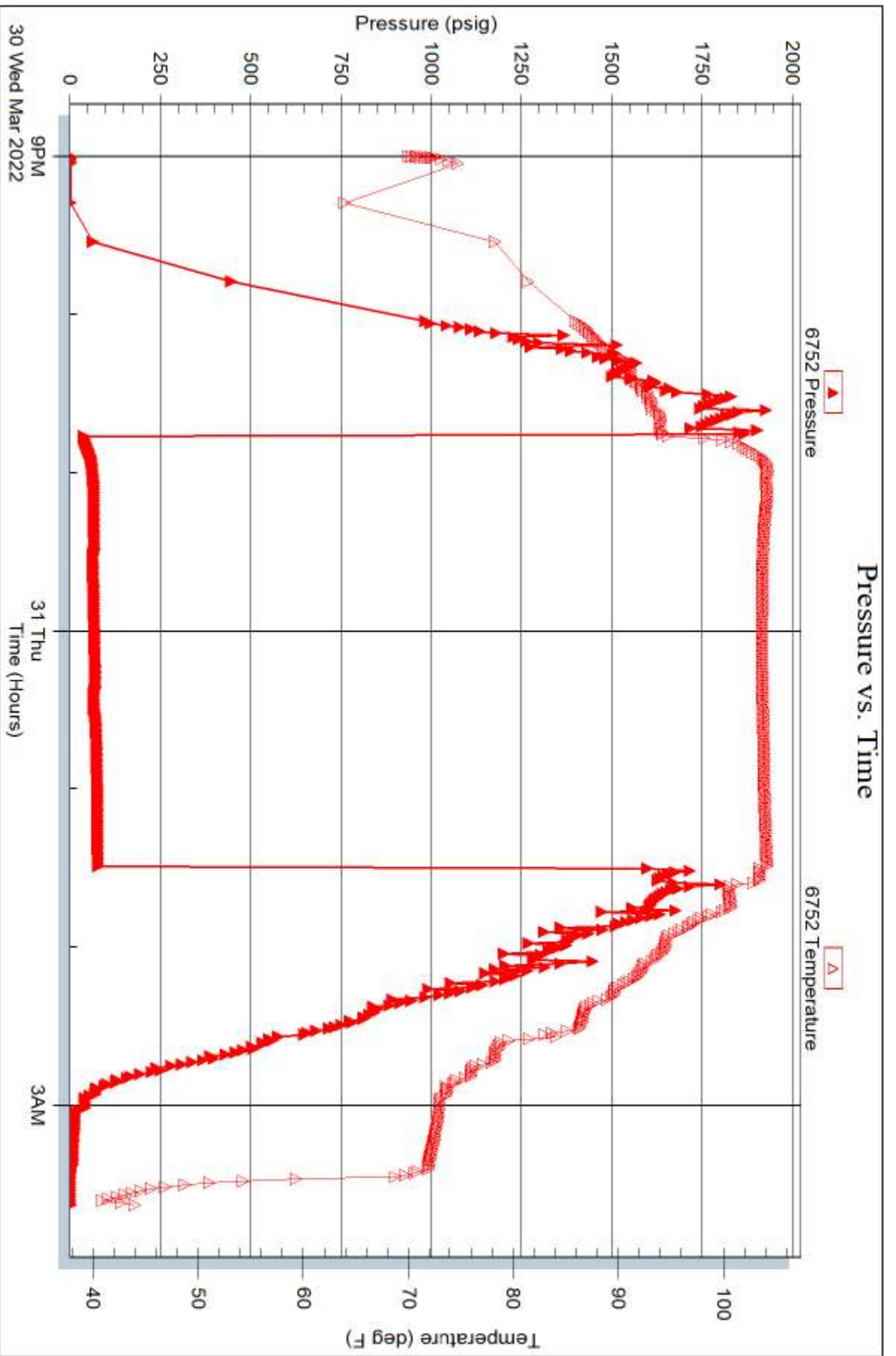
Recovery Table

Length ft	Description	Volume bbl
62.00	GOMCW 5% G 30% O 40% W 25% M	0.870
62.00	MW 65% W 35% M	0.870

Total Length: 124.00 ft      Total Volume: 1.740 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







# LITHOLOGY STRIP LOG

## WellSight Systems

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

Measured Depth Log

Well Name: KARLIN B #3

Well Id:

Location: SENWSWSW SECTION 1 12S-18W ELLIS COUNTY, KANSAS

License Number: 15-051-27031

Region: MID-CONTINENT

Spud Date: 3-21-2022

Drilling Completed: 3-30-2022

Surface Coordinates: 750' FSL & 385' FWL

Bottom Hole

Coordinates:

Ground Elevation (ft): 2105

K.B. Elevation (ft): 2115

Logged Interval (ft): 2750 To: 3750

Total Depth (ft): 3750

Formation: LKC & ARBUCKLE

Type of Drilling Fluid: WBM

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

### OPERATOR

Company: BEREXCO, LLC.

Address: 2020 N. Bramblewood  
Wichita, Kansas 67206

### GEOLOGIST

Name: William B. Bynog

Company:

Address: P.O.Box 687  
Pinecliffe, Co. 80471

### Surveys

DEPTH

ANGLE

FORMATION TOPS

### DSTs

DST#1 3260-3350, DST#2 3340-3410, 3410-3485, DST#4 3470-3555, DST#5 3545-3638, DST#6 3635-3653'

### Remarks

SET PRODUCTION PIPE

### ROCK TYPES



Anhy



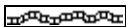
Coal



Lmst



Shcol



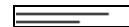
Bent



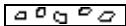
Congl



Meta



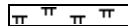
Shgy



Brec



Dol



Mrlst



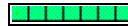
Sltst



Cht



Gyp



Salt



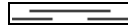
Ss



Clyst



Igne



Shale



Till

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral

- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

### OTHER SYMBOLS

#### POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

#### OIL SHOW

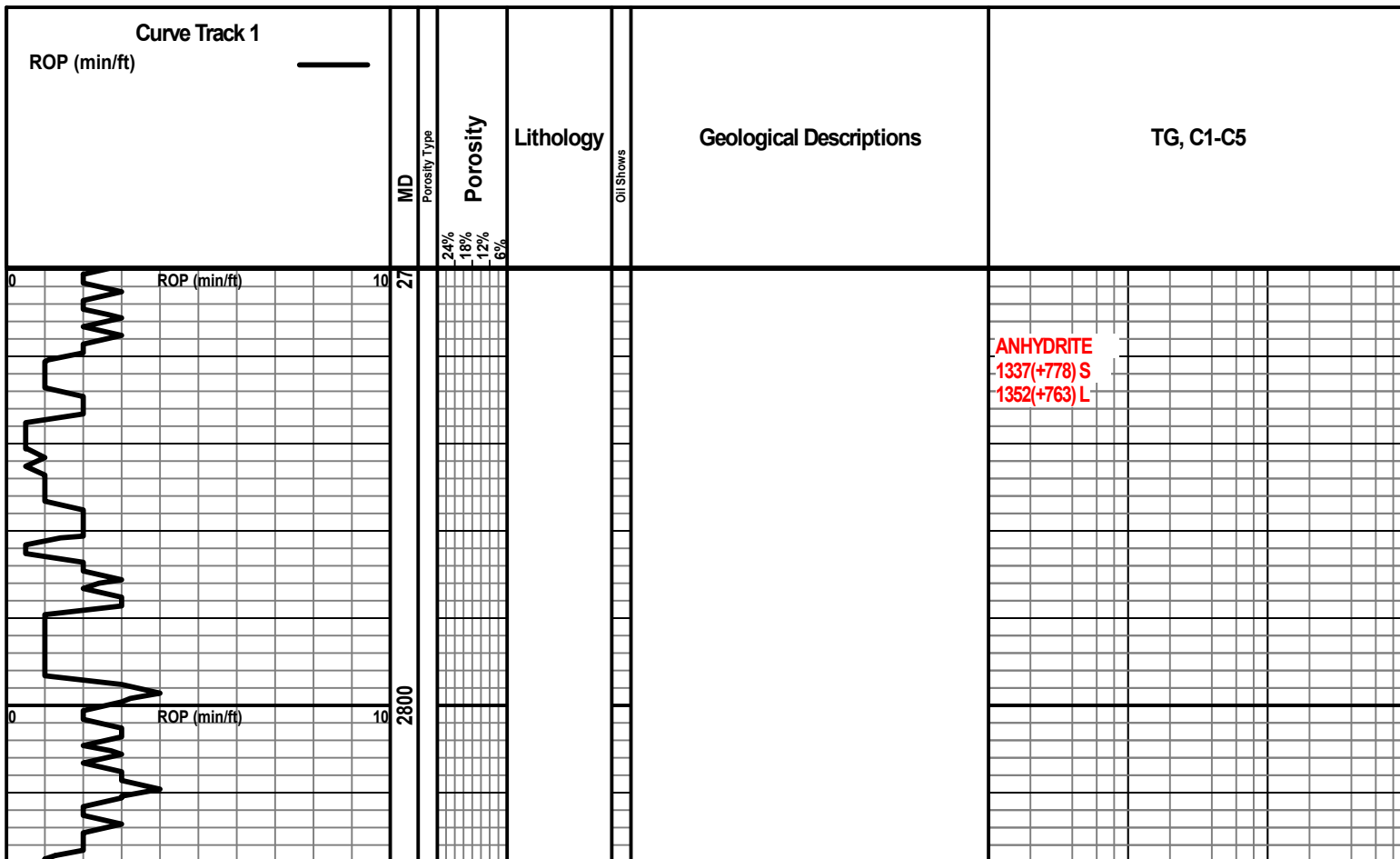
- Even
- Spotted
- Ques
- Dead

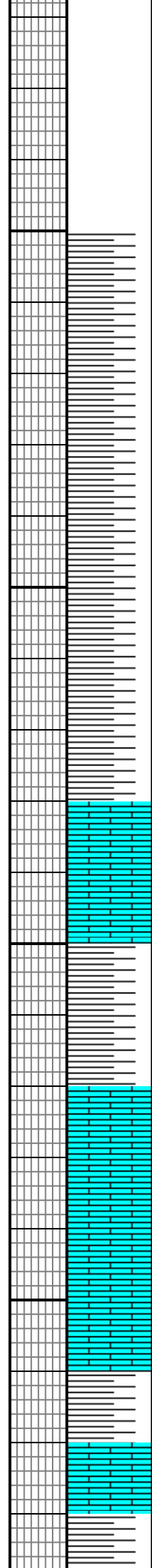
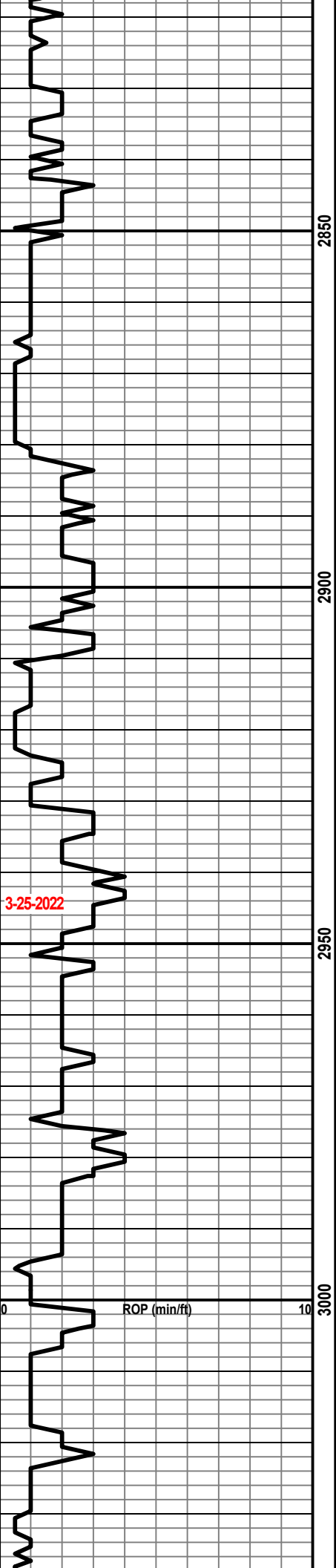
#### INTERVAL

- Dst
- Dst mis-run

#### EVENT

- Rft
- Sidewall





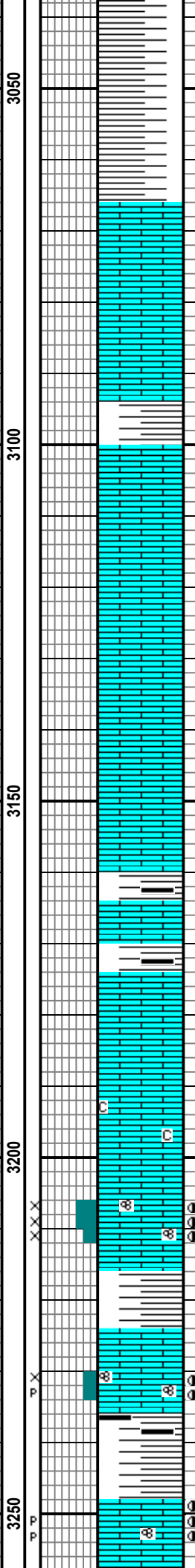
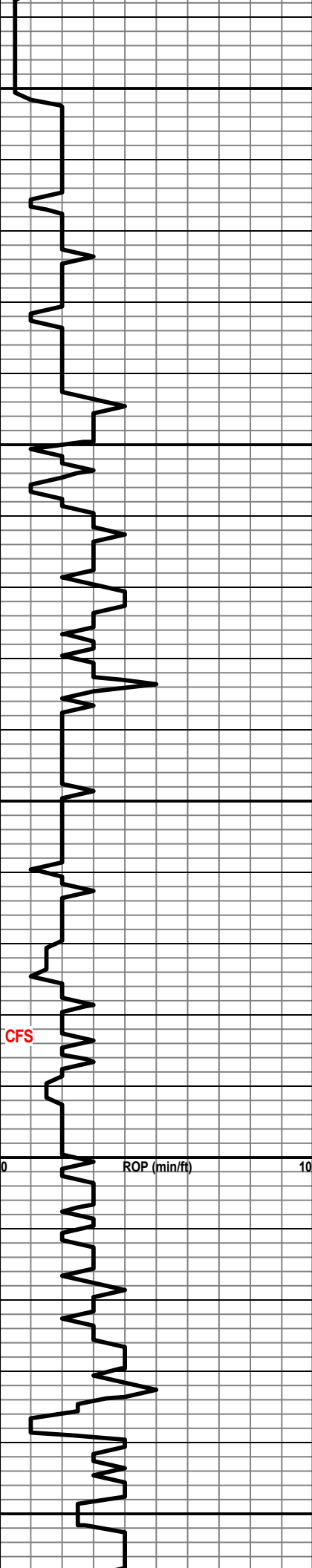
SH gy,v sft,v arg

LS cm,frm,arg,p por,ns

SH aa

LS cm,hd,blky dns,p por,ns

SH aa with thin LS aa



SH gy,gn.sft.arg

LS cm,hd,blk,dns,p por,ns with thin SH aa

LS cm,v hd,blk,dns,p por,ns with thin SH aa  
some blk,fiss,carb

SH blk,fm,fiss,carb

LS cm-tan,hd,blk,dns, abnt wh chky

LS wh-cm,fm,v foss,p-fr intg foss por,spty  
live bm stn,v gd cut & odorgd show free oil

SH gy,gy blk,gn,fm,fiss,sl carb

LS cm,hd,blk,dns,ns

LS wh-cm,fr,foss,p-fr intg foss & moldic  
por,spty live bm stn,gd cut & odor,show free  
oil

SH blk,fm,fiss,carb

SH gy,sft,v arg & thn SH aa

LS wh,fm,sl foss,chky ip,p pp vuggy por,spty  
live bm stn,fr cut,fr odor,sl show free oil

TOPEKA  
3068(-953) S  
3074(-959) L

MUD DATA 3397' WT 8.8 VIS 70 FL  
8 CK 1 PH 11 CL 1000 LCM 3.5#

.35' ZONE  
3104(-989) S  
3102(-987) L

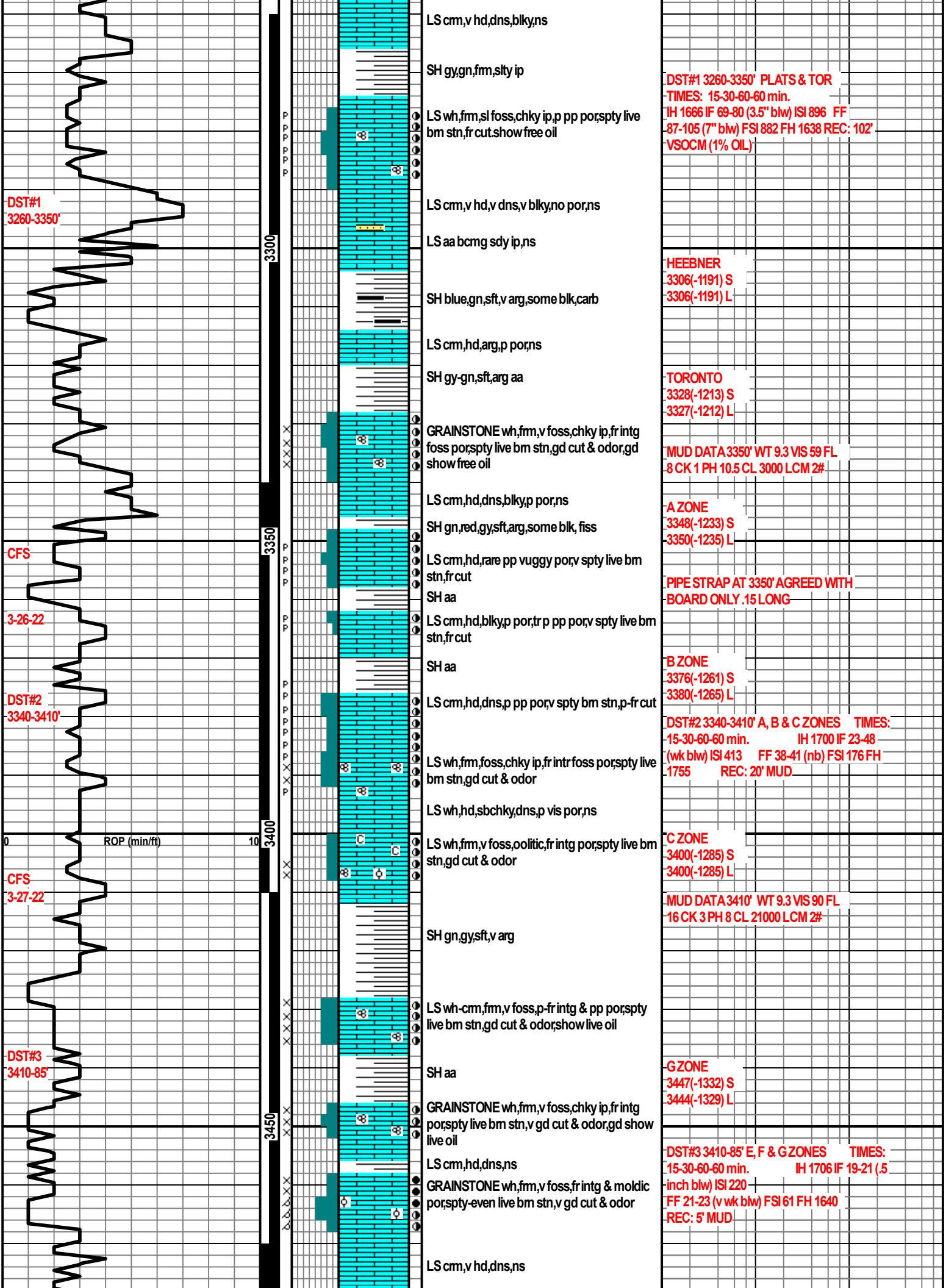
3050

3100

3150

3200

3250



DST#1  
3260-3350'

CFS  
3-26-22

DST#2  
3340-3410'

CFS  
3-27-22

DST#3  
3410-85'

LS cm,v hd,dns,blk,ns

SH gy,gn,frm,sity ip

LS wh,frm,sl foss,chk,ip,p pp por,spty live  
bm stn,fr cut.show free oil

LS cm,v hd,v dns,v blk,no por,ns

LS aa bcmg sdy ip,ns

SH blue,gn,sft,v arg,some blk,carb

LS cm,hd,arg,p por,ns

SH gy,gn,sft,arg aa

GRAINSTONE wh,frm,v foss,chk,ip,fr intg  
foss por,spty live bm stn,gd cut & odor,gd  
show free oil

LS cm,hd,dns,blk,p por,ns

SH gn,red,gy,sft,arg,some blk, fiss

LS cm,hd,rare pp vuggy por,v spty live bm  
stn,fr cut

SH aa

LS cm,hd,blk,p por,tr p pp por,v spty live bm  
stn,fr cut

SH aa

LS cm,hd,dns,p pp por,v spty bm stn,p-fr cut

LS wh,frm,foss,chk,ip,fr intr foss por,spty live  
bm stn,gd cut & odor

LS wh,hd,sbchk, dns,p vis por,ns

LS wh,frm,v foss,oolitic,fr intg por,spty live bm  
stn,gd cut & odor

SH gn,gy,sft,v arg

LS wh-cm,frm,v foss,p-fr intg & pp por,spty  
live bm stn,gd cut & odor,show live oil

SH aa

GRAINSTONE wh,frm,v foss,chk,ip,fr intg  
por,spty live bm stn,v gd cut & odor,gd show  
live oil

LS cm,hd,dns,ns

GRAINSTONE wh,frm,v foss,fr intg & moldic  
por,spty-even live bm stn,v gd cut & odor

LS cm,v hd,dns,ns

DST#1 3260-3350' PLATS & TOR  
TIMES: 15-30-60-60 min.  
IH 1666 IF 69-80 (3.5" blw) ISI 896 FF  
-87-105 (7" blw) FSI 882 FH 1638 REC: 102'  
-VSOCM (1% OIL)

HEEBNER  
3306(-1191) S  
3306(-1191) L

TORONTO  
3328(-1213) S  
3327(-1212) L

MUD DATA 3350' WT 9.3 VIS 59 FL  
-8 CK 1 PH 10.5 CL 3000 LCM 2#

A ZONE  
3348(-1233) S  
3350(-1235) L

PIPE STRAP AT 3350' AGREED WITH  
BOARD ONLY .15 LONG

B ZONE  
3376(-1261) S  
3380(-1265) L

DST#2 3340-3410' A, B & C ZONES TIMES:  
-15-30-60-60 min. IH 1700 IF 23-48  
(wk blw) ISI 413 FF 38-41 (nb) FSI 176 FH  
-1755 REC: 20' MUD

C ZONE  
3400(-1285) S  
3400(-1285) L

MUD DATA 3410' WT 9.3 VIS 90 FL  
-16 CK 3 PH 8 CL 21000 LCM 2#

G ZONE  
3447(-1332) S  
3444(-1329) L

DST#3 3410-85' E, F & G ZONES TIMES:  
-15-30-60-60 min. IH 1706 IF 19-21 (.5  
-inch blw) ISI 220  
FF 21-23 (v wk blw) FSI 61 FH 1640  
-REC: 5' MUD

