

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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**OPERATOR**

Company: TDI, INC.  
 Address: 1310 BISON ROAD  
 HAYS, KANSAS 67601-9696

Contact Geologist: TOM DENNING  
 Contact Phone Nbr: 785-628-2593  
 Well Name: KAY # 1  
 Location: NE NW NE SW, SEC. 32-T14S-R19W  
 API: 15-051-26,991-00-00  
 Pool: WILDCAT  
 State: KANSAS

Field: UNNAMED  
 Country: USA



Scale 1:240 Imperial

Well Name: KAY # 1  
 Surface Location: NE NW NE SW, SEC. 32-T14S-R19W  
 Bottom Location:  
 API: 15-051-26,991-00-00  
 License Number: 4787  
 Spud Date: 10/13/2020 Time: 4:30 PM  
 Region: ELLIS COUNTY  
 Drilling Completed: 10/18/2020 Time: 1:32 PM  
 Surface Coordinates: 2370' FSL & 1840' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2076.00ft  
 K.B. Elevation: 2086.00ft  
 Logged Interval: 2950.00ft To: 3850.00ft  
 Total Depth: 3850.00ft  
 Formation: LANSING-KANSAS CITY  
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -99.4600694  
 Latitude: 38.7902819  
 N/S Co-ord: 2370' FSL  
 E/W Co-ord: 1840' FWL

**LOGGED BY**

Company: SOLUTIONS CONSULTING, INC.  
 Address: 108 W 35TH  
 HAYS, KS 67601

Phone Nbr: (785) 639-1337  
 Logged By: GEOLOGIST Name: HERB DEINES

**CONTRACTOR**

Contractor: SOUTHWIND DRILLING INC.  
 Rig #: 8  
 Rig Type: MUD ROTARY  
 Spud Date: 10/13/2020 Time: 4:30 PM  
 TD Date: 10/18/2020 Time: 1:32 PM

**ELEVATIONS**

K.B. Elevation: 2086.00ft  
K.B. to Ground: 10.00ft

Ground Elevation: 2076.00ft

**NOTES**

PRODUCTION CASING RAN BASED ON RESULTS OF DST # 1 AND LOG EVALUATION.

OPEN HOLE LOGGING BY MIDWEST WIRELINE: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG.

DRILL STEM TESTING BY TRILOBITE TESTING INC: TWO (2) CONVENTIONAL TESTS.

KAY # 1	YOUNG # 1	WASINGER # 1
NE NW NE SW	NW SE NW NW	N2 SE SE NW
SEC.32-14S-19W	SEC.5-15S-19W	SEC.32-14S-19W
KB 2086'	KB 2061'	KB 2087'

	LOG TOPS		
Anhydrite-top	1356 +730	+745	+733
Anhydrite-base	1394 +692	+706	+695
Topeka	3084 -998	-993	-1003
Heebner Shale	3352-1266	-1261	-1268
Toronto	3376-1290	-1282	-1288
LKC	3397-1311	-1307	-1313
BKC	3640-1554	-1553	-1559
Arbuckle	3729-1643	-1655	NOT REACHED
RTD	3850-1764	-1676	-1697

10-13-20 Spud 4:30 PM. Set 8 5/8" surface casing to 222.69' w 150 sks 80/20 pos 3%CC 2%gel, plug down 9:00PM, Slope 0 degree @223'. WOC 8 hours

10-14-20 357', drilling, drilled plug at 5:00 AM with PDC bit

10-15-20 2475', drilling. Displaced 2825'-2877'

10-16-20 3245', drilling, CFS 3390', Short trip 22 stands. CFS 3440', DST # 1 3414'-3440' "C"

10-17-20 3465', drilling, CFS 3590', DST # 2 3516' to 3590' "H" to "J", TIWB

10-18-20 3850', drilling, RTD 3850' @ 1:32PM, CCH, TOWB, logs, TIWB, LDDP

10-19-20 3950', run production casing and cement.



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TDI Inc  
1310 Bison Rd  
Hays KS 67601+9696  
ATTN: Herb Deines

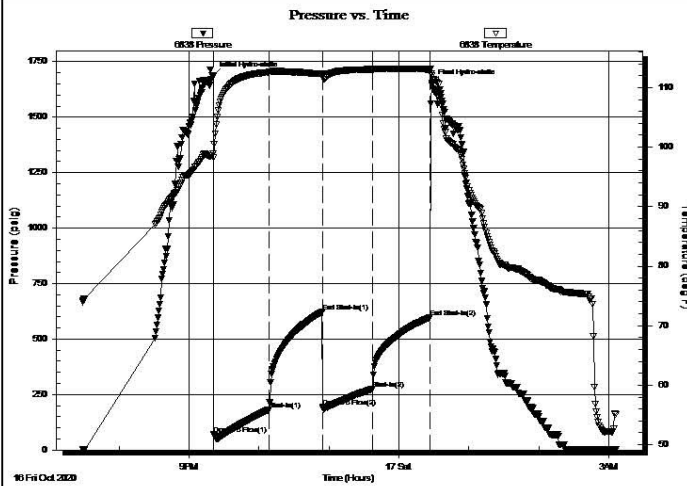
**32-14s-19w Ellis KS**  
**Kay #1**  
Job Ticket: 67434      **DST#: 1**  
Test Start: 2020.10.16 @ 19:29:00

### GENERAL INFORMATION:

Formation: **LKC C**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 21:21:02  
Time Test Ended: 03:06:07  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Spencer J Staab  
Unit No: 84  
Interval: **3414.00 ft (KB) To 3440.00 ft (KB) (TVD)**  
Total Depth: 3440.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches    Hole Condition: Fair  
Reference Elevations: 2086.00 ft (KB)  
2076.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6838**      **Inside**  
Press@RunDepth: 275.74 psig @ 3415.00 ft (KB)      Capacity:                      psig  
Start Date: 2020.10.16      End Date: 2020.10.17      Last Calib.: 2020.10.17  
Start Time: 19:29:01      End Time: 03:06:07      Time On Btm: 2020.10.16 @ 21:20:52  
Time Off Btm: 2020.10.17 @ 00:28:02

**TEST COMMENT:** 45-IF-BOB 28 secs; Built to 362" (138 PSI)  
45-ISI-GTS 4 min; Bled off 7 min; BOB 4 mins; Built to 36"  
45-FF-BOB 2 mins; Built to 170"  
45-FSI-Bled off 4 min; BOB 6 min; Built to 45"



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.71	98.89	Initial Hydro-static
1	70.75	98.21	Open To Flow (1)
48	182.46	112.58	Shut-In(1)
94	622.60	112.39	End Shut-In(1)
94	194.76	112.22	Open To Flow (2)
137	275.74	113.06	Shut-In(2)
187	598.64	113.05	End Shut-In(2)
188	1653.00	112.36	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
725.00	GO 60%G 40%O	10.28

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


Trilobite Testing, Inc

Ref. No: 67434

Printed: 2020.10.17 @ 07:57:27



## DRILL STEM TEST REPORT

TDI Inc  
 1310 Bison Rd  
 Hays KS 67601+9696  
 ATTN: Herb Deines

**32-14s-19w Ellis KS**  
**Kay #1**  
 Job Ticket: 67435      **DST#: 2**  
 Test Start: 2020.10.17 @ 15:02:00

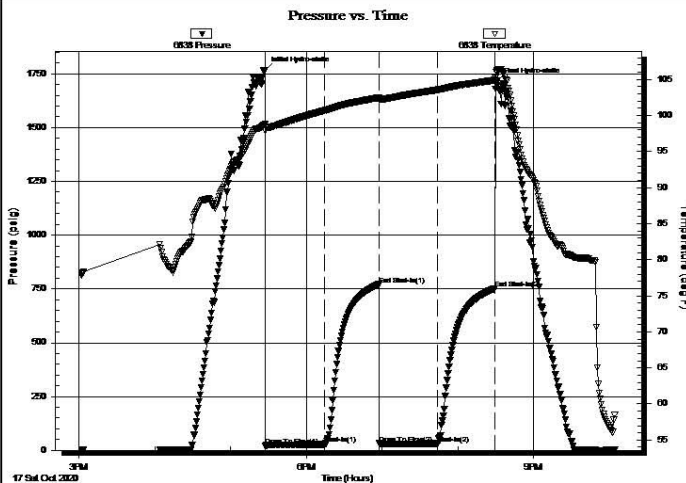
### GENERAL INFORMATION:

Formation: **LKC HI J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:27:42  
 Time Test Ended: 22:04:27  
 Interval: **3516.00 ft (KB) To 3590.00 ft (KB) (TVD)**  
 Total Depth: 3590.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 2086.00 ft (KB)  
 2076.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6838**      **Inside**  
 Press@RunDepth: 30.26 psig @ 3521.00 ft (KB)      Capacity: psig  
 Start Date: 2020.10.17      End Date: 2020.10.17      Last Calib.: 2020.10.17  
 Start Time: 15:02:01      End Time: 22:04:27      Time On Btm: 2020.10.17 @ 17:27:32  
 Time Off Btm: 2020.10.17 @ 20:30:47

TEST COMMENT: 45-IF-Weak; Built to 1/2"  
 45-ISI-No Return  
 45-FF-No Blow  
 45-FSI-No Return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1767.23	98.74	Initial Hydro-static
1	22.01	97.94	Open To Flow (1)
48	27.98	100.67	Shut-In(1)
90	770.82	102.44	End Shut-In(1)
91	31.59	102.18	Open To Flow (2)
137	30.26	103.54	Shut-In(2)
182	750.95	104.90	End Shut-In(2)
184	1715.13	106.04	Final Hydro-static

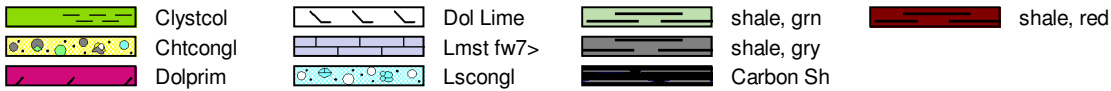
### Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 100%M	0.28

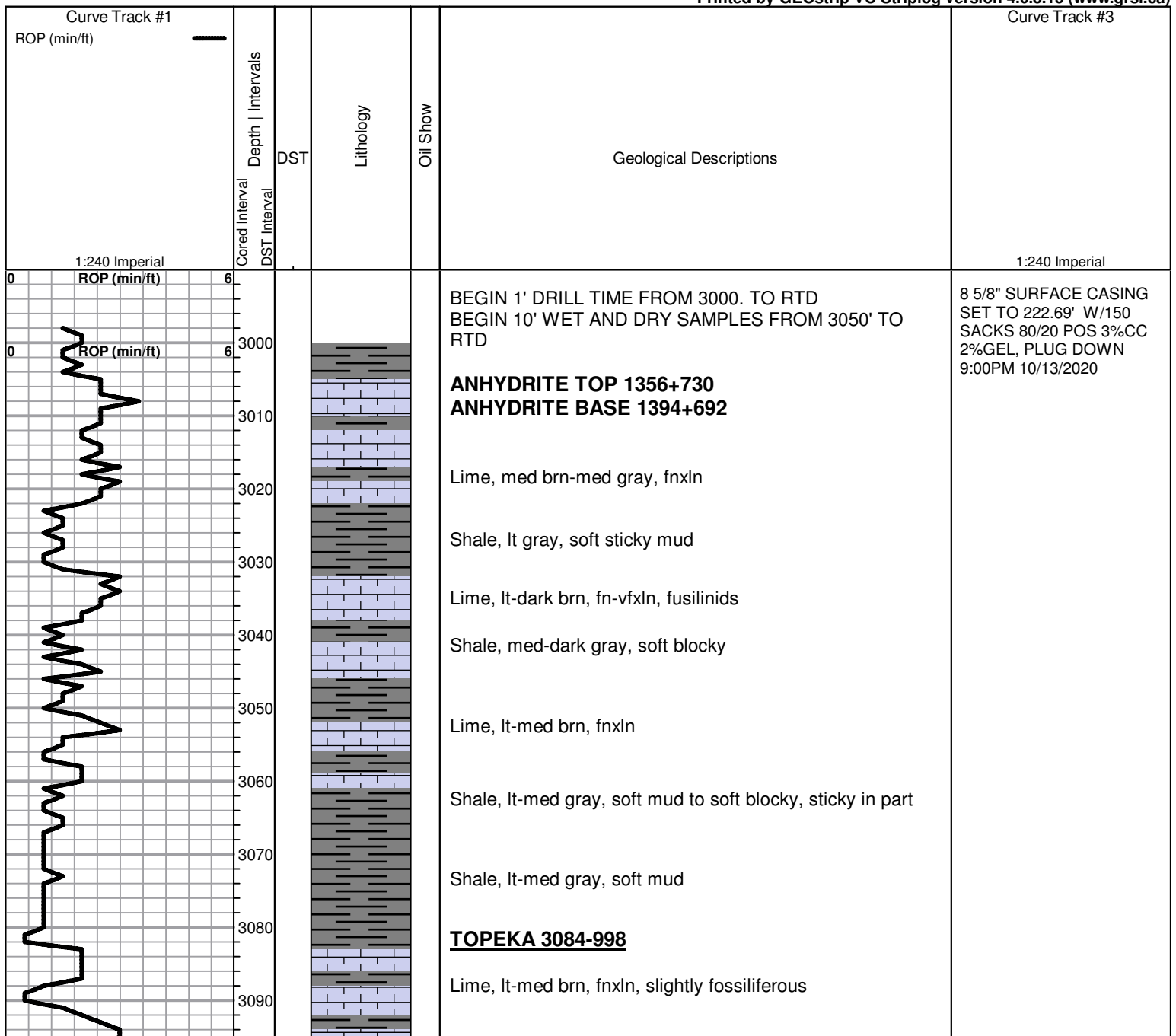
### Gas Rates

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

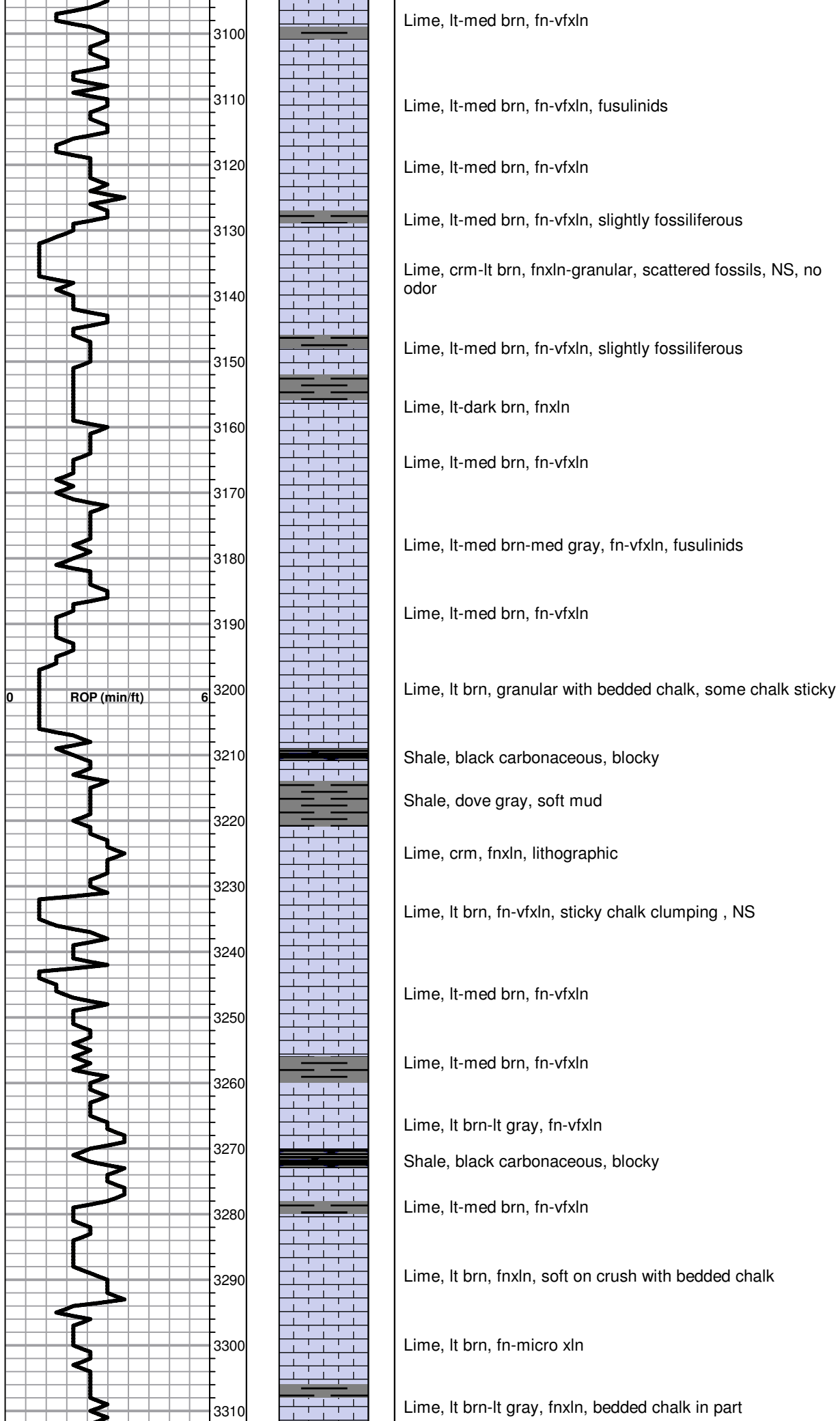
**ROCK TYPES**

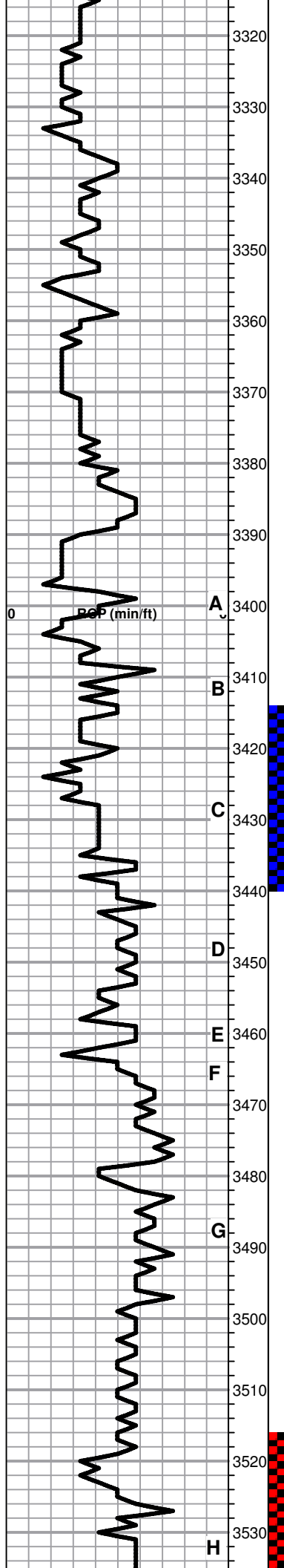


Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)









Lime, lt brn, fn-vfxln

Lime, lt-med brn, fnxln, soft on crush

Lime, lt-med brn, fnxln

Lime, lt-med brn, fn-vfxln

**HEEBNER SHALE 3352-1266**

Shale, black carbonaceous, blocky, fissile

Lime, med brn, fn-micro xln

Shale, lime green, soft sticky mud

**TORONTO 3376-1290**

Lime, white-crm, fn-vfxln, hard bedded chalk, NS

Lime, crm, micro xln

Lime, crm-lt brn, fn-micro xln

Shale, red wash, soft mud, sticky

**LKC 3397-1311**

Lime, lt-med brn, fn-micro xln

Lime, med brn-med gray, fn-vfxln

① Lime, lt brn, fnxln, few chips with spotty to sat staining, vlt odor, vmsfo, gassy, oolitic and interxln porosity with scattered fines vugs.

Lime, lt brn, fn-vfxln, bedded chalk with lt white wash

① Lime, lt brn, fnxln, spotty stain, oolitic and fossil fragments, NFO

Lime, lt brn, fn-vfxln, bedded chalk with lt white wash

Shale, black carbonaceous, blocky

Lime, lt-dark brn, fn-vfxln

Shale, gray, soft mud

Lime, white-crm, fn-vfxln, bedded chalk

Lime, crm, fn-vfxln, slight bedded chalk, NS

Lime, crm, fn-micro xln, slight bedded chalk, hard

Lime, crm, fn-micro xln

Lime, crm, fn-micro xln

Shale, black carbonaceous, blocky

Lime, lt grn-lt gray, fn-micro xln

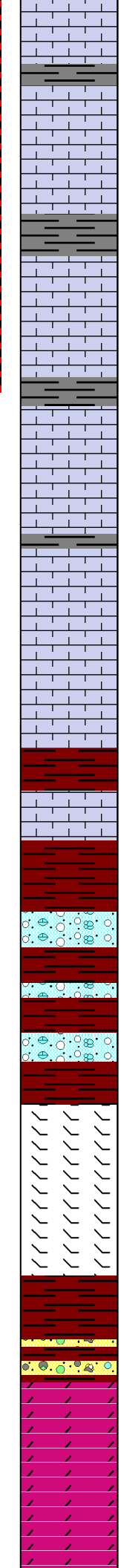
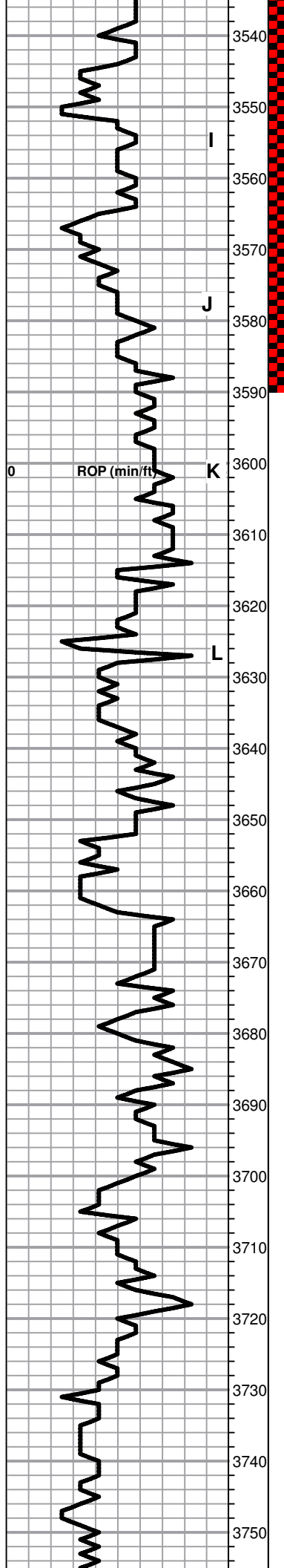
Shale, lt gray, soft mud

① Lime, crm-lt brn, fn-vfxln, few chips, vlt odor, spotty stain, NFO, scattered fossil casts with lt staining

CFS @3390', SHORT TRIP

DST # 1 3414' TO 3440'  
SEE HEADER FOR TEST SUMMARY

SLOPE 1 DEGREE @ 3440'



Lime, lt brn, fn-vfxln, hard bedded chalk

Lime, lt brn-lt gray, fn-vfxln

○ Lime, crm, fnxln, oomoldic and interxln porosity, fine dendritic dark staining, vlt odor, NFO

Lime, crm, fnlN, thin oomoldic with dark oolitic with scattered fine vugs.

○ Lime, lt brn-lt gray, few chips with lt spotty staining, NFO, fine pin point vuggy porosity

Lime, crm, fnxln, hard bedded chalk

Shale, gray-black carbonaceous, blocky, pyritic

Lime, crm-lt brn, fn-vfxln, black flakes in part, NS

Lime, crm-lt brn, fn-micro xln

Lime, crm-lt brn, micro xln

Lime, crm-lt brn, fn-micro xln

Lime, lt-med brn, fn-micro xln

**BKC 3640-1554**

Shale, red, blocky

Lime, lt tan, fnxln, chalky with sticky clumps

Lime, clastic mixfn-vfxln

Shale, lt red wash  
Lime, clastic mix

Shale, red soft mud and dark brn, firm blocky

**MARMATON MARKER 3690-1604**

Lime, tan-lt brn, fnxln, slightly dolomitic, orange chert

Lime, crm-lt brn, dolomitic, orange chert with some tan

Chert, orange and tan, sharp, fresh  
Lime, fn-vfxln, dolomitic

Shale, red soft mud, red wash, cherts, tans and browns

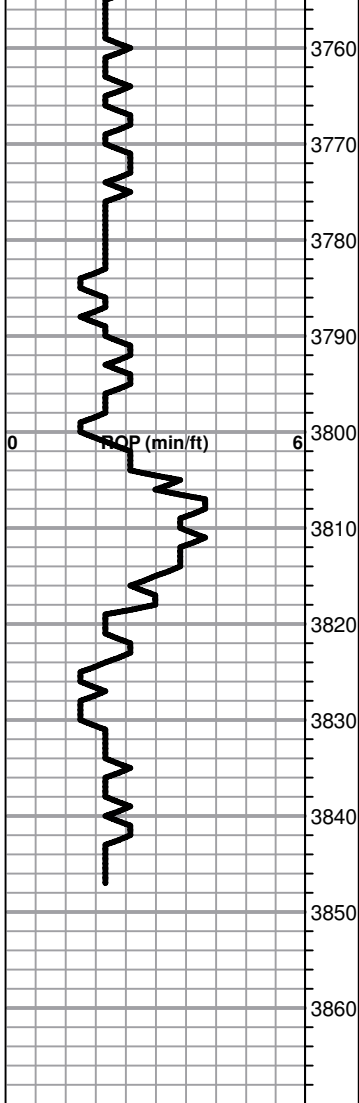
**ARBUCKLE 3729-1643**

Dolomite, crm fnxln-granular, NS, no odor or staining

Dolomite, buff-crm, fnxln-granular

Dolomite, buff-lt brn, granular-fnxln, slight bedded chalk

DST # 2 3516' TO 3590' SEE  
HEADER FOR TEST  
SUMMARY



Dolomite, crm-lt brn, fnxln-granular  
White chalk wash

Dolomite, lt brn, granular with white chalk wash

Dolomite, lt brn, granular

Dolomite, buff-crm, fnxln-granular, some silica inclusions

Dolomite, crm, granular, quartz inclusions

Dolomite crm-lt brn, fnxln-granular, silica inclusions, few pyrite clusters.

Dolomite, lt brn, granular, sucrosic

Dolomite, crm-lt brn, granular, sucrosic

Dolomite, crm-lt brn, granular

**RTD 3850-1764 LTD 3847-1761**

RAN 5 1/2" PRODUCTION CASING SET TO 3839'. CEMENTED BOTTOM STAGE WITH 150 SXS SMD, DV TOOL SET AT 1369' AND CEMENTED WITH 150 SXS EA2, 30 SXS IN RATHOLE, 15 SXS IN MOUSE HOLE. JOB COMPLETE 7:30 AM 10/19/2020, SWIFT SERVICES

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 2118

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-13-20	32	14	19	Ellis	KS		9/20/20

Location Antonino 4w 14N Einto

Lease	Well No.	Owner	
KAY	1	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor			
Southwind #8			
Type Job			
Surface			
Hole Size	T.D.	Charge To	
12 1/4	223	T.D.J.	
Csg.	Depth	Street	
8 5/8	222		
Tbg. Size	Depth	City	
		State	
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered	
10'		150 8/20 3/11 2/02	
Meas Line	Displace		
	13 BCL		

**EQUIPMENT**

Pumptrk	No.	Cementer	Common
20		Craig	120
		Helper	Poz. Mix
			30
Bulktrk	No.	Driver	Gel.
		1. CR	3
		Driver	Calcium
Bulktrk	No.	Driver	6
9		Davis	

**JOB SERVICES & REMARKS**

Remarks:	Hulls
	Salt
Rat Hole	Flowseal
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
8 5/8 on bottom. Est. Circulation.	Handling 159
MIX 150 SK + Displace.	Mileage
Cement Circulated!	<b>FLOAT EQUIPMENT</b> 8 5/8 SURGE
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	Surface	Tax
Mileage	15 (min)	Discount
		Total Charge

X Signature *[Handwritten Signature]*

Thanks *[Handwritten Signature]*



JOB LOG

SWIFT Services, Inc.

DATE 10-19-20 PAGE NO.

10-19-20

CUSTOMER TDI

WELL NO. #1

LEASE Kay

JOB TYPE 2 stage LS

TICKET NO. 33249

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1230							ON location
								5 1/2 csg
								Rto
								Shoe - 3843.21
								DV. - 1372 # 58
								CENT 4, 1, 3, 5, 7, 9, 11, 13, 15
								BSKT - # 1 & 57
	300							START Running Csg
	500							Circ on Bottom
		5	12			300		pump mudflush - 500 gal
		5	20			300		pump KCL spacer
		5	32			400		pump cmt - 150 sks @ 15.5 <sup>PPG</sup>
		6	0			300		Drop plug - wash p&L
	635	5	91.5			900/1500		Start Disp
								Land plug - Lift 900# Land - 1500#
								Release psi - Dry
	640							Drop D.V. opening tool
		2.5	8			0		plug rat hole - 30 sks
		2.5	4			0		plug mouse hole - 15 sks
						800		open D.V. tool
	655	5	100			400		pump cmt - 155 sks @ 11.2 <sup>PPG</sup>
								Drop plug
	720	5	0					Start Disp
	730	5	33			600/1500		land plug - Lift - 600# Lift - 1500#
								Release psi - Dry
								Circulated 50 sks to pit
								JOB Complete
								Thanks
								David, Zach, & Kirby



## DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd  
Hays KS 67601+9696

ATTN: Herb Deines

**Kay #1**

**32-14s-19w Ellis,KS**

Start Date: 2020.10.16 @ 19:29:00

End Date: 2020.10.17 @ 03:06:07

Job Ticket #: 67434                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.10.19 @ 09:30:13

TDI Inc  
32-14s-19w Ellis,KS  
Kay #1  
DST # 1  
LKC C  
2020.10.16



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

TDI Inc  
 1310 Bison Rd  
 Hays KS 67601+9696  
 ATTN: Herb Deines

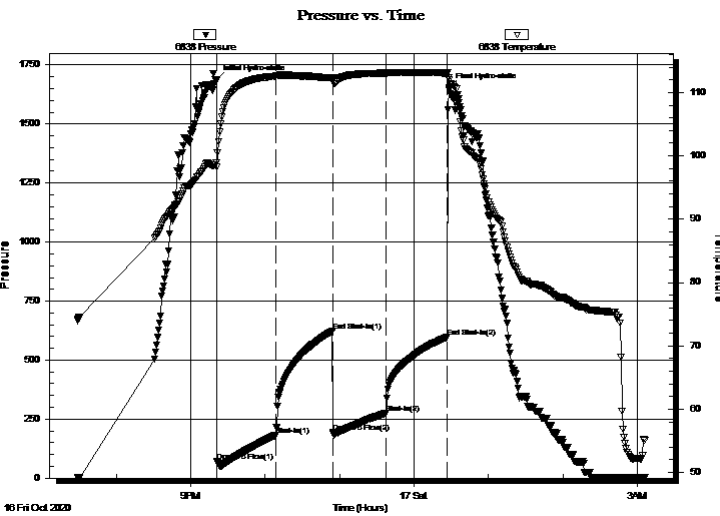
**32-14s-19w Ellis,KS**  
**Kay #1**  
 Job Ticket: 67434 **DST#: 1**  
 Test Start: 2020.10.16 @ 19:29:00

## GENERAL INFORMATION:

Formation: **LKC C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:21:02  
 Time Test Ended: 03:06:07  
 Interval: **3414.00 ft (KB) To 3440.00 ft (KB) (TVD)**  
 Total Depth: 3440.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 2086.00 ft (KB)  
 2076.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6838 Inside**  
 Press@RunDepth: 275.74 psig @ 3415.00 ft (KB) Capacity: psig  
 Start Date: 2020.10.16 End Date: 2020.10.17 Last Calib.: 2020.10.17  
 Start Time: 19:29:01 End Time: 03:06:07 Time On Btm: 2020.10.16 @ 21:20:52  
 Time Off Btm: 2020.10.17 @ 00:28:02

**TEST COMMENT:** 45-IF-BOB 28 secs; Built to 362" (138 PSI)  
 45-ISI-GTS 4 min; Bled off 7 min; BOB 4 mins; Built to 36"  
 45-FF-BOB 2 mins; Built to 170"  
 45-FSI-Bled off 4 min; BOB 6 min; Built to 45"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.71	98.89	Initial Hydro-static
1	70.75	98.21	Open To Flow (1)
48	182.46	112.58	Shut-In(1)
94	622.60	112.39	End Shut-In(1)
94	194.76	112.22	Open To Flow (2)
137	275.74	113.06	Shut-In(2)
187	598.64	113.05	End Shut-In(2)
188	1653.00	112.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
725.00	GO 60%G 40%O	10.28

## Gas Rates

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





# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

TDI Inc  
1310 Bison Rd  
Hays KS 67601+9696  
ATTN: Herb Deines

**32-14s-19w Ellis,KS**  
**Kay #1**  
Job Ticket: 67434      **DST#: 1**  
Test Start: 2020.10.16 @ 19:29:00

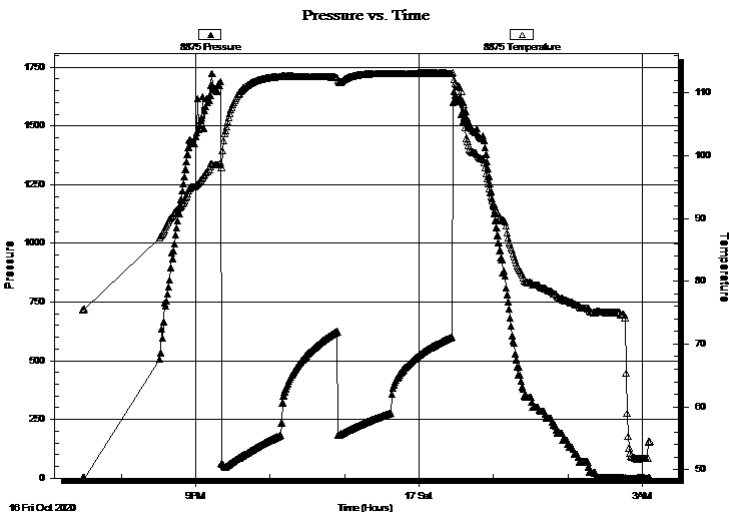
### GENERAL INFORMATION:

Formation: **LKC C**  
Deviated: No Whipstock:      ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 21:21:02      Tester: Spencer J Staab  
Time Test Ended: 03:06:07      Unit No: 84  
**Interval: 3414.00 ft (KB) To 3440.00 ft (KB) (TVD)**      Reference Elevations: 2086.00 ft (KB)  
Total Depth: 3440.00 ft (KB) (TVD)      2076.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 10.00 ft

**Serial #: 8875      Outside**  
Press@RunDepth:      psig @ 3415.00 ft (KB)      Capacity:      psig  
Start Date: 2020.10.16      End Date: 2020.10.17      Last Calib.: 2020.10.17  
Start Time: 19:29:01      End Time: 03:06:07      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 45-IF-BOB 28 secs; Built to 362" (138 PSI)  
45-ISI-GTS 4 min; Bled off 7 min; BOB 4 mins; Built to 36"  
45-FF-BOB 2 mins; Built to 170"  
45-FSI-Bled off 4 min; BOB 6 min; Built to 45"

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
725.00	GO 60%G 40%O	10.28

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TDI Inc  
1310 Bison Rd  
Hays KS 67601+9696  
ATTN: Herb Deines

**32-14s-19w Ellis,KS**  
**Kay #1**  
Job Ticket: 67434      **DST#: 1**  
Test Start: 2020.10.16 @ 19:29:00

**Tool Information**

Drill Pipe:	Length: 3400.00 ft	Diameter: 3.82 inches	Volume: 48.20 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3414.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3388.00	
Change Over Sub	1.00			3389.00	
Shut In Tool	5.00			3394.00	
Hydraulic tool	5.00		Fluid	3399.00	
Gap Sub	3.00			3402.00	
Safety Joint	3.00			3405.00	
Packer	5.00			3410.00	27.00 Bottom Of Top Packer
Packer	4.00			3414.00	
Stubb	1.00			3415.00	
Recorder	0.00	6838	Inside	3415.00	
Recorder	0.00	8875	Outside	3415.00	
Perforations	22.00			3437.00	
Bullnose	3.00			3440.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI Inc **32-14s-19w Ellis,KS**  
 1310 Bison Rd **Kay #1**  
 Hays KS 67601+9696 Job Ticket: 67434 **DST#: 1**  
 ATTN: Herb Deines Test Start: 2020.10.16 @ 19:29:00

## Mud and Cushion Information

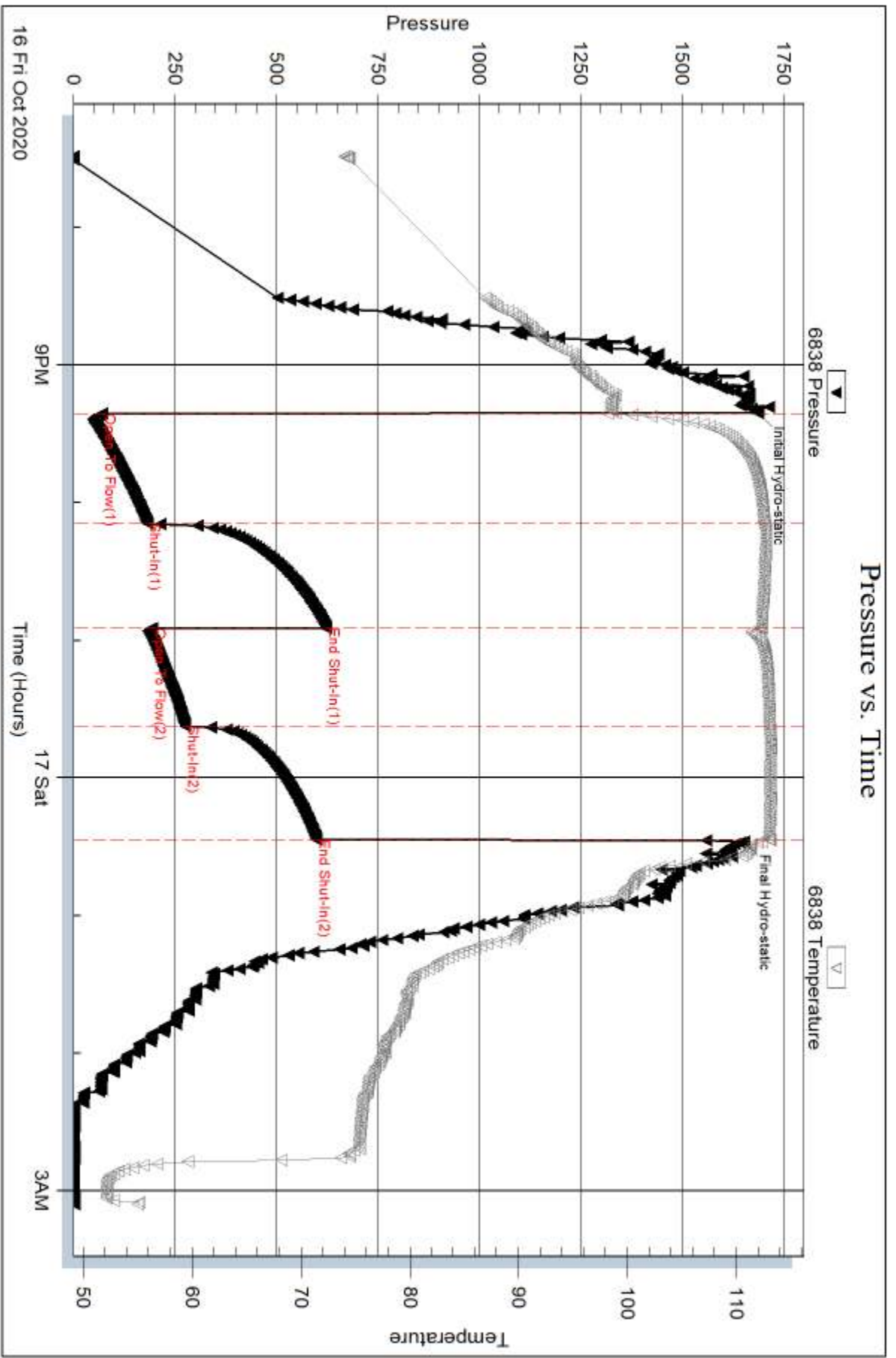
Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.79 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6900.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
725.00	GO 60%G 40%O	10.277

Total Length: 725.00 ft Total Volume: 10.277 bbl  
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:  
 Laboratory Name: Laboratory Location:  
 Recovery Comments: 2#LCM

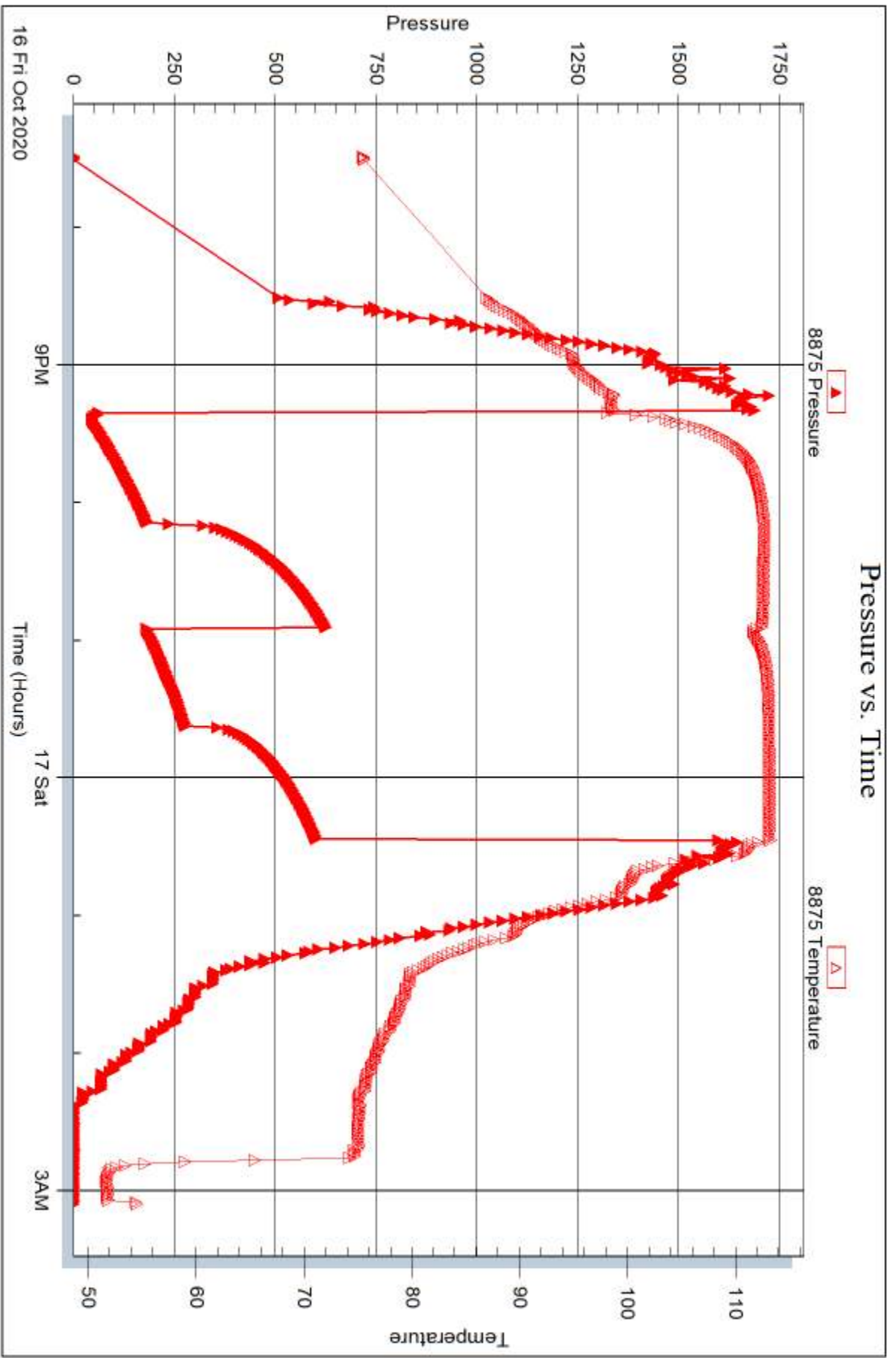


Serial #: 8875

Outside TDI Inc

Kay #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67434

Printed: 2020.10.19 @ 09:30:14



## DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd  
Hays KS 67601+9696

ATTN: Herb Deines

**Kay #1**

**32-14s-19w Ellis,KS**

Start Date: 2020.10.17 @ 15:02:00

End Date: 2020.10.17 @ 22:04:27

Job Ticket #: 67435                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.10.19 @ 09:16:13

TDI Inc  
32-14s-19w Ellis,KS  
Kay #1  
DST # 2  
LKC H - J  
2020.10.17



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

TDI Inc  
 1310 Bison Rd  
 Hays KS 67601+9696  
 ATTN: Herb Deines

**32-14s-19w Ellis,KS**  
**Kay #1**  
 Job Ticket: 67435 **DST#: 2**  
 Test Start: 2020.10.17 @ 15:02:00

## GENERAL INFORMATION:

Formation: **LKC H - J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:27:42  
 Time Test Ended: 22:04:27  
 Interval: **3516.00 ft (KB) To 3590.00 ft (KB) (TVD)**  
 Total Depth: 3590.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 2086.00 ft (KB)  
 2076.00 ft (CF)  
 KB to GR/CF: 10.00 ft

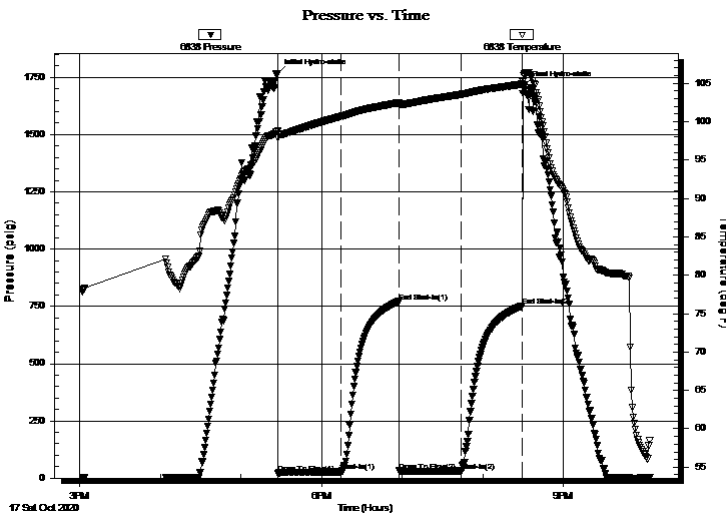
## Serial #: 6838

Inside

Press@RunDepth: 30.26 psig @ 3521.00 ft (KB) Capacity: psig  
 Start Date: 2020.10.17 End Date: 2020.10.17 Last Calib.: 2020.10.17  
 Start Time: 15:02:01 End Time: 22:04:26 Time On Btm: 2020.10.17 @ 17:27:32  
 Time Off Btm: 2020.10.17 @ 20:30:47

TEST COMMENT: 45-IF-Weak; Built to 1/2"  
 45-ISI-No Return  
 45-FF-No Blow  
 45-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1767.23	98.74	Initial Hydro-static
1	22.01	97.94	Open To Flow (1)
48	27.98	100.67	Shut-In(1)
90	770.82	102.44	End Shut-In(1)
91	31.59	102.18	Open To Flow (2)
137	30.26	103.54	Shut-In(2)
182	750.95	104.90	End Shut-In(2)
184	1715.13	106.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 100%M	0.28

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

TDI Inc  
1310 Bison Rd  
Hays KS 67601+9696  
ATTN: Herb Deines

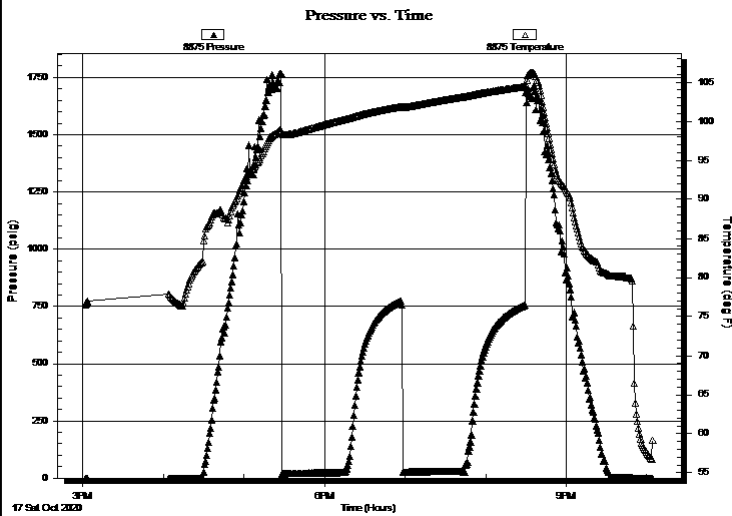
**32-14s-19w Ellis,KS**  
**Kay #1**  
Job Ticket: 67435      **DST#: 2**  
Test Start: 2020.10.17 @ 15:02:00

### GENERAL INFORMATION:

Formation: **LKC H - J**  
Deviated: No      Whipstock:      ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 17:27:42      Tester: Spencer J Staab  
Time Test Ended: 22:04:27      Unit No: 84  
**Interval: 3516.00 ft (KB) To 3590.00 ft (KB) (TVD)**      Reference Elevations: 2086.00 ft (KB)  
Total Depth: 3590.00 ft (KB) (TVD)      2076.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 10.00 ft

**Serial #: 8875**      **Outside**  
Press@RunDepth:      psig @      3521.00 ft (KB)      Capacity:      psig  
Start Date: 2020.10.17      End Date: 2020.10.17      Last Calib.: 2020.10.17  
Start Time: 15:02:01      End Time: 22:05:07      Time On Btm:  
Time Off Btm:

TEST COMMENT: 45-IF-Weak; Built to 1/2"  
45-ISI-No Return  
45-FF-No Blow  
45-FSI-No Return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 100%M	0.28

### Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TDI Inc  
1310 Bison Rd  
Hays KS 67601+9696  
ATTN: Herb Deines

**32-14s-19w Ellis,KS**  
**Kay #1**  
Job Ticket: 67435 **DST#: 2**  
Test Start: 2020.10.17 @ 15:02:00

## Tool Information

Drill Pipe:	Length: 3495.00 ft	Diameter: 3.82 inches	Volume: 49.54 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	42000.00 lb
Drill Pipe Above KB:	6.00 ft			Final	42000.00 lb
Depth to Top Packer:	3516.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	74.00 ft				
Tool Length:	101.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3490.00	
Change Over Sub	1.00			3491.00	
Shut In Tool	5.00			3496.00	
Hydraulic tool	5.00		Fluid	3501.00	
Gap Sub	3.00			3504.00	
Safety Joint	3.00			3507.00	
Packer	5.00			3512.00	27.00 Bottom Of Top Packer
Packer	4.00			3516.00	
Stubb	1.00			3517.00	
Perforations	3.00			3520.00	
Change Over Sub	1.00			3521.00	
Recorder	0.00	6838	Inside	3521.00	
Recorder	0.00	8875	Outside	3521.00	
Drill Pipe	63.00			3584.00	
Change Over Sub	1.00			3585.00	
Perforations	2.00			3587.00	
Bullnose	3.00			3590.00	74.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>101.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI Inc **32-14s-19w Ellis,KS**  
 1310 Bison Rd **Kay #1**  
 Hays KS 67601+9696 Job Ticket: 67435 **DST#: 2**  
 ATTN: Herb Deines Test Start: 2020.10.17 @ 15:02:00

## Mud and Cushion Information

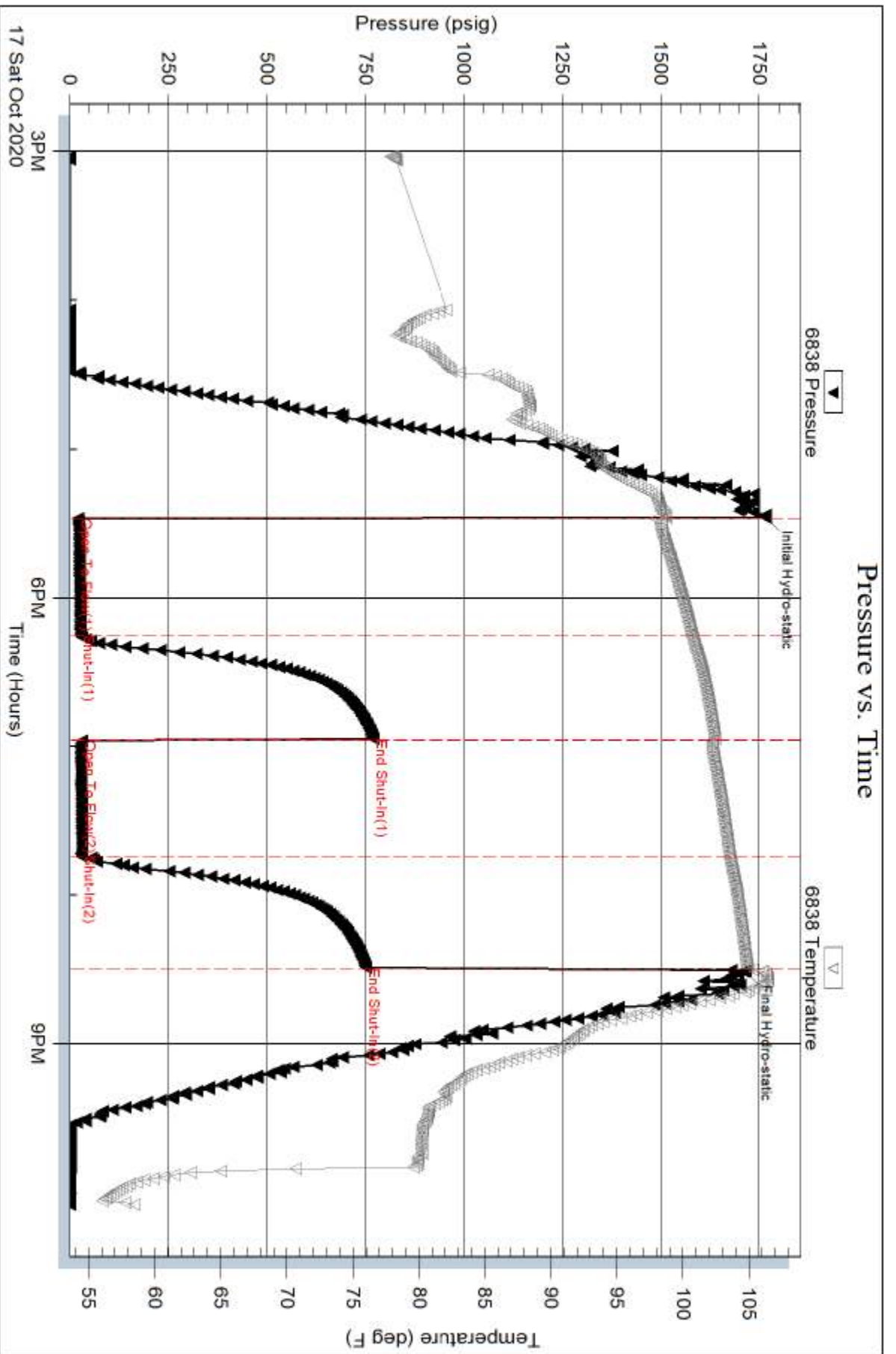
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9800.00 ppm			
Filter Cake: inches			

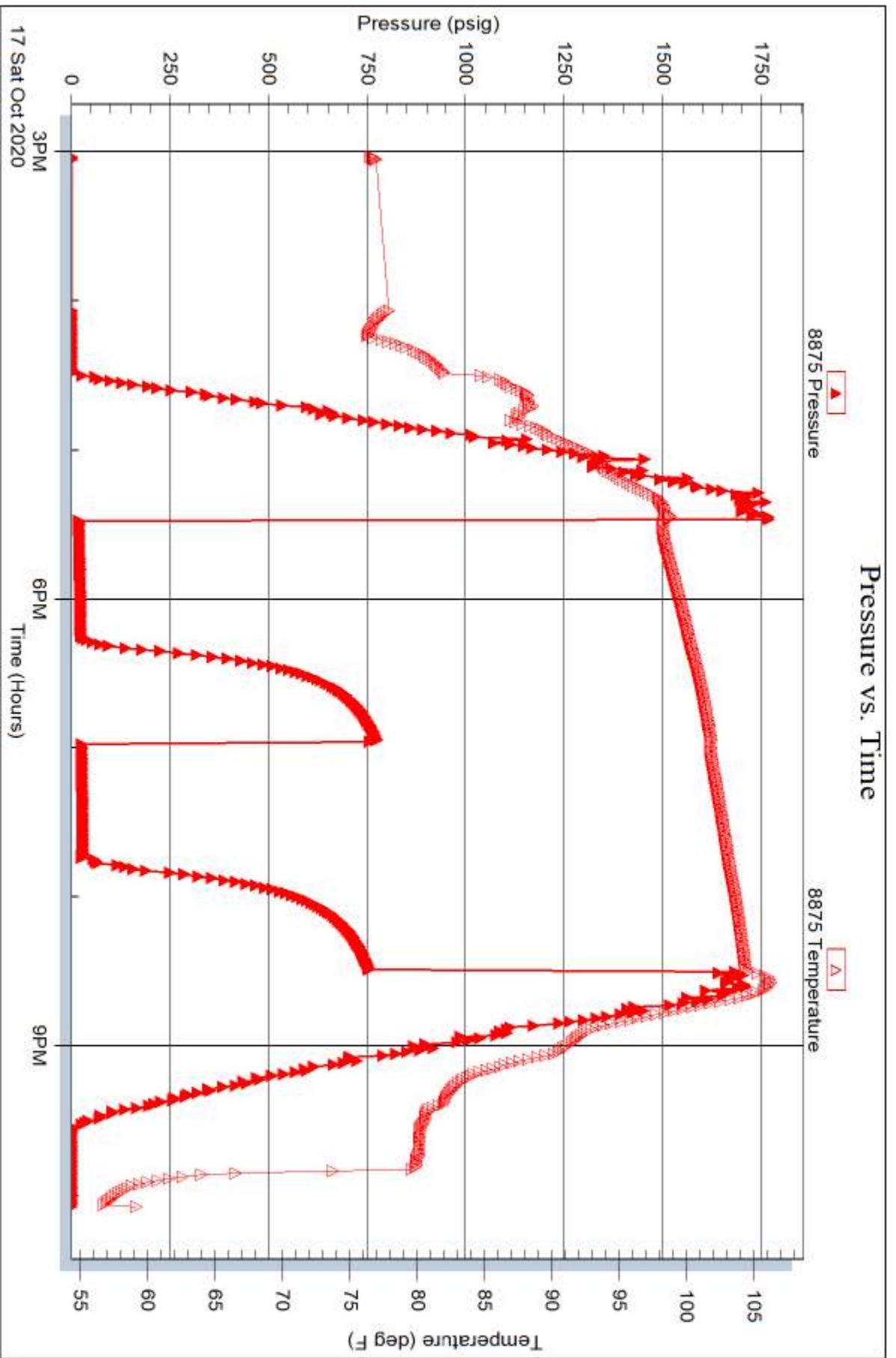
## Recovery Information

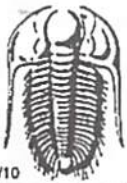
Recovery Table

Length ft	Description	Volume bbl
20.00	OSM 100%M	0.284

Total Length: 20.00 ft Total Volume: 0.284 bbl  
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:  
 Laboratory Name: Laboratory Location:  
 Recovery Comments: 1#LCM







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67434

Well Name & No. May #1 Test No. 1 Date 10/16/2020  
 Company TDI, Inc Elevation 2086 KB 2078 GL  
 Address 1310 Bison Rd Hays Ks 67601 + 9696  
 Co. Rep / Geo. Herb Deines Rig Southwind #8  
 Location: Sec. 32 Twp 14s Rge. 19w Co. Ellis State Ks

Interval Tested 3414' - 3440 Zone Tested LAC C  
 Anchor Length 26' Drill Pipe Run 3400' Mud Wt. 9.0  
 Top Packer Depth 3409' Drill Collars Run - Vis 60  
 Bottom Packer Depth 3414' Wt. Pipe Run - WL 5.8  
 Total Depth 3440' Chlorides 6900 ppm System LCM 2#

Blow Description 27-BOB 28 sec; Built to 362" (138 PSI)  
JSJ-GTS 4 min in; 7 min Bled off; BOB 4 min; Built to 36"  
77-BOB 2 min; Built to 170"  
758 4 min Bled off; BOB 6 min; Built to 45"

Rec	Feet of	%gas	%oil	%water	%mud
<u>725'</u>	<u>G10</u>	<u>60</u>	<u>40</u>		
Rec	Feet of <u>GTS</u>	<u>100</u>			
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 725' BHT 113° Gravity 39° API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1687</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>18:32</u>
(B) First Initial Flow <u>70</u>	<input type="checkbox"/> Jars	T-Started <u>19:29</u>
(C) First Final Flow <u>182</u>	<input type="checkbox"/> Safety Joint	T-Open <u>21:20</u>
(D) Initial Shut-In <u>622</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>00:20 10/17/2020</u>
(E) Second Initial Flow <u>194</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>03:03</u>
(F) Second Final Flow <u>275</u>	<input checked="" type="checkbox"/> Mileage <u>3627</u> 36	Comments
(G) Final Shut-In <u>598</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1653</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1236</u>
	Sub Total <u>1236</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Spencer J. Paul Thanks!

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-0056





# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67435**

Well Name & No. Kay #1 Test No. 2 Date 10/17/2020  
 Company ZDD Inc Elevation 2086 KB 2076 GL  
 Address 1310 Bison Rd Hays Ks 67601-9696  
 Co. Rep / Geo. Herb Deines Rig Southwind #8  
 Location: Sec. 32 Twp 14s Rge. 19w Co. Ellis State Ks

Interval Tested 3516' - 3590' Zone Tested LAC H&J  
 Anchor Length 74' Drill Pipe Run 3495' Mud Wt. 9.1  
 Top Packer Depth 3511' Drill Collars Run - Vis 57  
 Bottom Packer Depth 3516' Wt. Pipe Run - WL 6.0  
 Total Depth 3590' Chlorides 9800 ppm System LCM #

Blow Description 77-Weak; Built to 1/2"  
75D-No Return  
77-No Blow  
75D-No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>OSM</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' BHT 104° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1767  Test 1200 T-On Location 14:30  
 (B) First Initial Flow 22  Jars \_\_\_\_\_ T-Started 15:02  
 (C) First Final Flow 27  Safety Joint \_\_\_\_\_ T-Open 17:25  
 (D) Initial Shut-In 770  Circ Sub \_\_\_\_\_ T-Pulled 20:25  
 (E) Second Initial Flow 31  Hourly Standby \_\_\_\_\_ T-Out 22:02  
 (F) Second Final Flow 30  Mileage 36.87 72 Comments loaded tools  
 (G) Final Shut-In 750  Sampler \_\_\_\_\_ 10/18/2020 @ 10:00  
 (H) Final Hydrostatic 1715  Straddle \_\_\_\_\_  EM Tool 350  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1272

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45

Sub Total 1272 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Spencer J. Neal Thanks  
 Tribolite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

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