

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: DESMARTEAU # 1
 Location: NW SE NE SE SEC. 31-T11S-R18W
 API: 15-051-27,037-00-00
 Pool: INFIELD
 State: KANSAS

Field: RIVERVIEW
 Country: USA



Scale 1:240 Imperial

Well Name: DESMARTEAU # 1
 Surface Location: NW SE NE SE SEC. 31-T11S-R18W
 Bottom Location:
 API: 15-051-27,037-00-00
 License Number: 4787
 Spud Date: 8/18/2022 Time: 8:00 PM
 Region: ELLIS COUNTY
 Drilling Completed: 8/24/2022 Time: 9:10 PM
 Surface Coordinates: 1685' FSL & 620' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2099.00ft
 K.B. Elevation: 2109.00ft
 Logged Interval: 0.00ft To: 0.00ft
 Total Depth: 3680.00ft
 Formation: LKC
 Drilling Fluid Type: CHEMICAL/FRESH WATER MUD

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.3544587
 Latitude: 39.0495731
 N/S Co-ord: 1685' FSL
 E/W Co-ord: 620' FEL

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: 8/18/2022 Time: 8:00 PM
 TD Date: 8/24/2022 Time: 9:10 PM

ELEVATIONS

K.B. Elevation: 2109.00ft
 K.B. to Ground: 10.00ft

Ground Elevation: 2099.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON LOW STRUCTURAL POSITION TO OFFSET PLUGGED OUT PRODUCERS AND NEGATIVE RESULTS OF TWO DSTS.

NO OPEN HOLE LOGS WERE RAN ON THIS WELL.


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

FORMATION TOPS COMPARISON

	DESMARTEAU # 2 NW SE NE SE SEC.31-11S-18W KB 2109'	DESMARTEAU # 1 NE SW SE SW SEC.31-11S-18W KB 2124'	PFEIFER # 1 NE SE SE SEC.31-11S-18W KB 2086'
	SPL TOPS		
Anhydrite-top	1435 +674	+666	+694
Anhydrite-base	1471 +638	+632	+656
Topeka	3116-1007	-1012	
Heebner Shale	3340-1231	-1238	-1222
Toronto	3361-1252	-1258	-1247
LKC	3384-1275	-1280	-1264
BKC	3616-1507	-1512	-1500
Arbuckle	Not Reached	-1560	-1550
RTD	3680-1571	-1649	-1569

8-18-22 Spud 8:00 PM. Drilling surface hole
 8-19-22 225', set 8 5/8" to 222' and cemented w/ 150 sks 80/20 pos 3%CC 2%gel, plug down 1:45 AM, slope 1/2 degree @225'. WOC 8 hours, drill plug at 9:45 AM with button bit
 8-20-22 1281', drilling
 8-21-22 2380', drilling
 8-22-22 3060', drilling, CFS 3155', drilling, CFS 3312', DST # 1 3258'-3312'-Plattsmouth
 8-23-22 3312', finish DST # 1, TIWB, drilling, CFS 3445', DST #2 3428'-3445' "D" bench
 8-24-22 3445', TIWB, drilling, CFS 3680', RTD 3680' @ 9:10PM, decision to P&A
 8-25-22 3680', LDDP and plug well, plug down 6:30AM

DST # 1 TEST SUMMARY

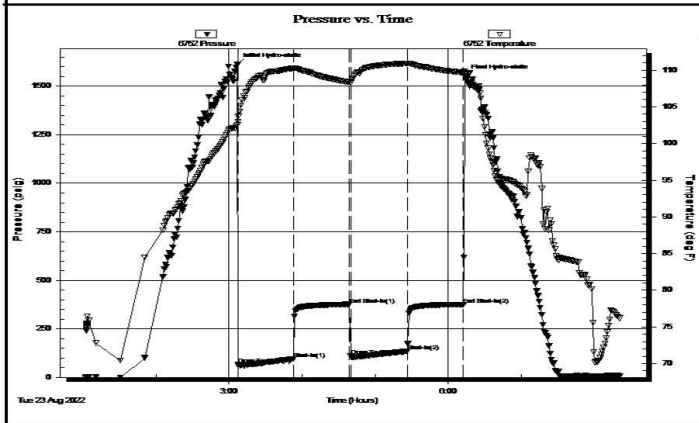
	DRILL STEM TEST REPORT	
	TDI Inc. 1310 Bison Rd. Hays, KS. 67601 ATTN: Herb Deines	31-11s-18w Ellis Desmarteau 2 Job Ticket: 69508 DST#: 1 Test Start: 2022.08.23 @ 01:03:00

GENERAL INFORMATION:

Formation: lower Topeka	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Leal Cason/Richie Sa
Time Tool Opened: 03:07:17	Unit No: 72
Time Test Ended: 08:21:02	Reference Elevations: 2109.00 ft (KB)
Interval: 3258.00 ft (KB) To 3312.00 ft (KB) (TVD)	2099.00 ft (CF)
Total Depth: 3312.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good

Serial #: 6752	Inside		
Press@RunDepth: 135.51 psig @ 3304.00 ft (KB)	Capacity: psig		
Start Date: 2022.08.23	End Date: 2022.08.23	Last Calib.: 2022.08.23	
Start Time: 01:03:00	End Time: 08:21:02	Time On Btm: 2022.08.23 @ 03:06:47	
		Time Off Btm: 2022.08.23 @ 06:13:47	

TEST COMMENT: IF: fair blow , BOB 33 minutes, built to 14.14"
 ISl: no blow back
 FF: fair blow built to 8.77"
 FSl: no blow back

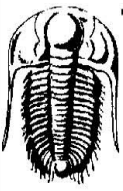


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.95	102.55	Initial Hydro-static
1	67.18	102.98	Open To Flow (1)
46	95.30	110.26	Shut-In(1)
93	376.32	108.37	End Shut-In(1)
93	110.27	108.33	Open To Flow (2)
140	135.51	110.92	Shut-In(2)
186	375.78	109.66	End Shut-In(2)
187	1553.29	109.84	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
186.00	MCW 24% M 76% W	2.61
20.00	WCM 40% W 60% M	0.28

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

DST # 2 TEST SUMMARY

 TRILOBITE TESTING, INC.	<h2 style="margin: 0;">DRILL STEM TEST REPORT</h2>	
TDI Inc. 1310 Bison Rd. Hays, KS. 67601 ATTN: Herb Deines	31-11s-18w Ellis Desmarteau 2 Job Ticket: 69509 DST#: 2 Test Start: 2022.08.23 @ 21:46:00	

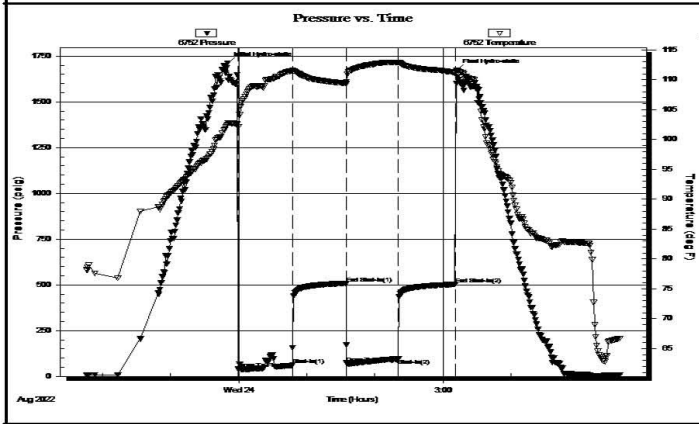
GENERAL INFORMATION:

Formation: LKC "D"	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Leal Cason/Richie Sa
Time Tool Opened: 23:59:47	Unit No: 72
Time Test Ended: 05:36:02	Reference Elevations: 2109.00 ft (KB)
Interval: 3428.00 ft (KB) To 3445.00 ft (KB) (TVD)	2099.00 ft (CF)
Total Depth: 3445.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 6752 Inside

Press@RunDepth: 96.08 psig @ 3434.00 ft (KB)	Capacity: psig
Start Date: 2022.08.23 End Date: 2022.08.24	Last Calib.: 2022.08.24
Start Time: 21:46:00 End Time: 05:36:02	Time On Btm: 2022.08.23 @ 23:50:17
	Time Off Btm: 2022.08.24 @ 03:12:02

TEST COMMENT: IF: weak blow, built to 5.27"
 IS: no blow back
 FF: weak blow, built to 6.41"
 FSI: no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.90	102.53	Initial Hydro-static
10	41.03	102.15	Open To Flow (1)
58	61.79	111.54	Shut-In(1)
105	507.65	109.43	End Shut-In(1)
105	72.91	109.64	Open To Flow (2)
151	96.08	112.91	Shut-In(2)
201	503.10	111.27	End Shut-In(2)
202	1670.85	111.40	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
124.00	Water	1.74
30.00	MCV 20% M 80% W	0.42

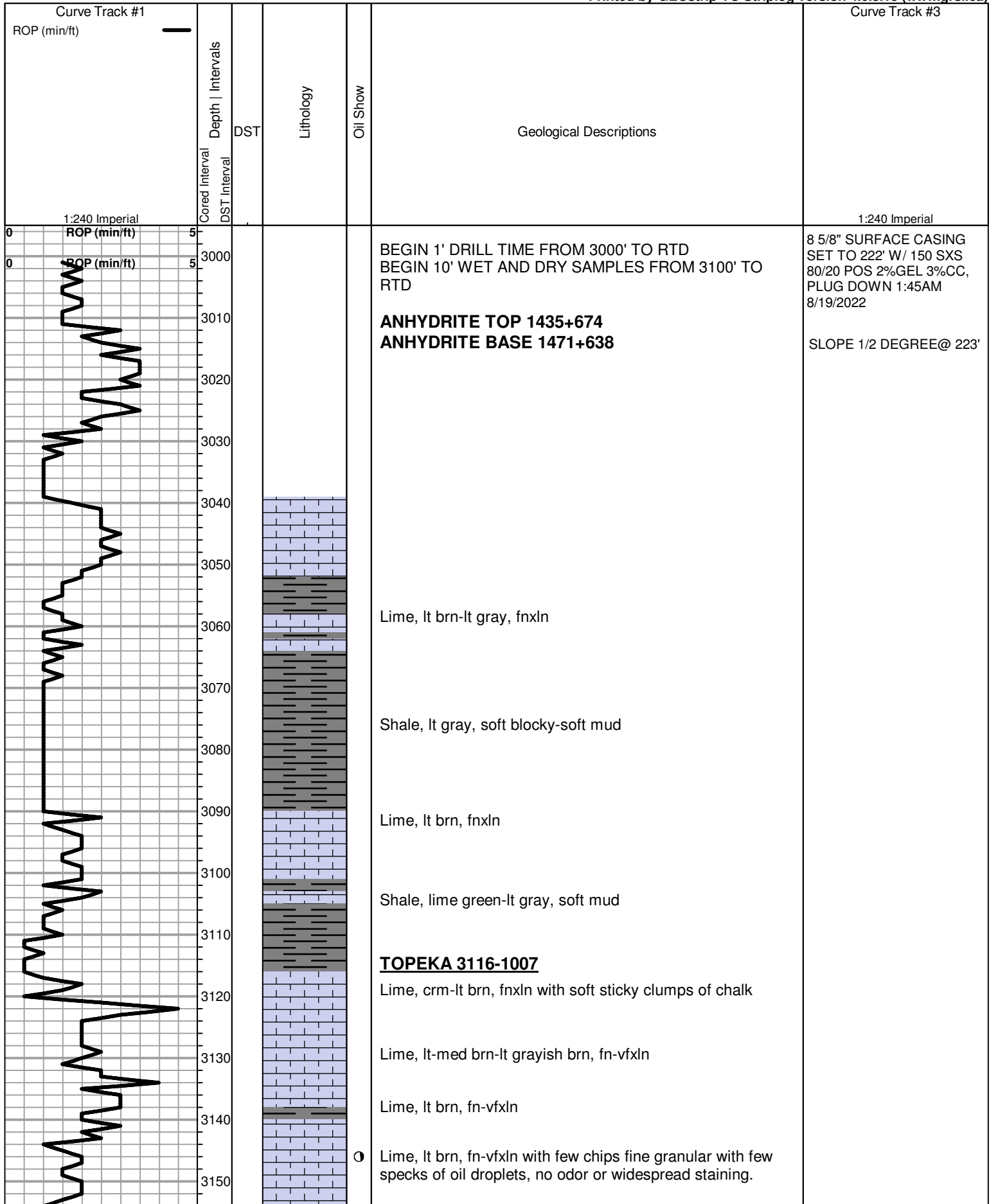
Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

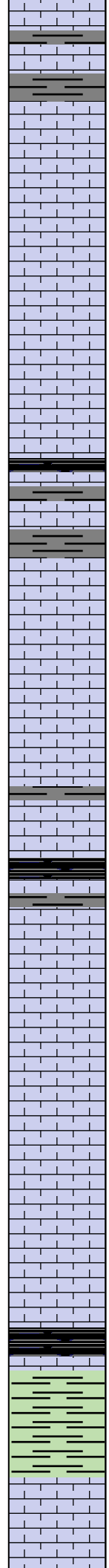
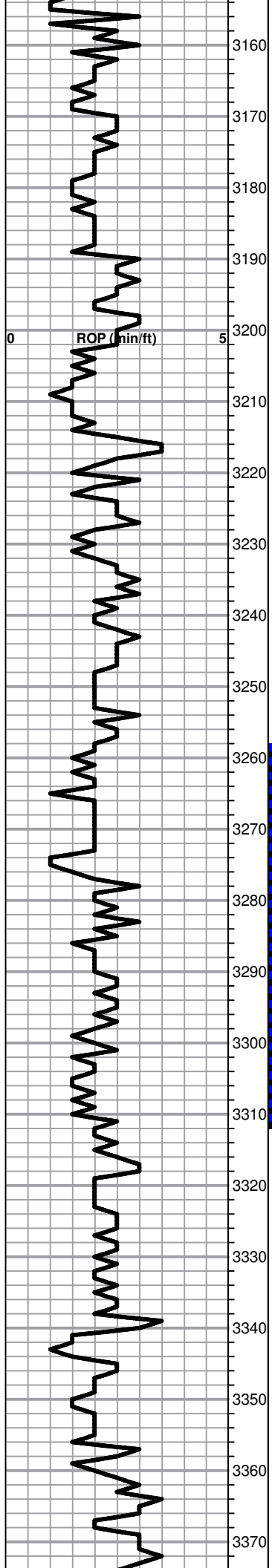
* Recovery from multiple tests

ROCK TYPES



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





Lime, lt brn-lt gray, fn-vfxln

Lime, lt brn-lt gray, fn-vfxln, slightly fossiliferous in part

Lime, lt brn-lt grayish brn, fnxln

Lime, lt brn-med gray, fn-vfxln, slightly fossiliferous

Lime, lt brn, granular with bedded chalk

Lime, lt-med brn, fn-vfxln

Shale, black carbonaceous

Lime, crm, vfxln

Lime, crm, vfxln, lithographic

Lime, lt-med brn, fn-vfxln

Shale, med gray, soft blocky

Lime, lt brn, fn-vfxln

Shale, black carbonaceous

Lime, lt brn, fn-vfxln, few chips with dark staining in fossil casts, NFO or odor

Lime, lt brn, fnxln, lt chalky wash

Lime, lt brn, fn-vfxln, bedded chalk

Lime, crm-lt brn, fnxln, bed chalk, NS

Lime, lt-med brn, fn-vfxln

Lime, lt-med brn, fn-vfxln

Lime, lt brn, fnxln, chalky, soft on crush

HEEBNER SHALE 3340-1231

Shale, black carbonaceous, blocky

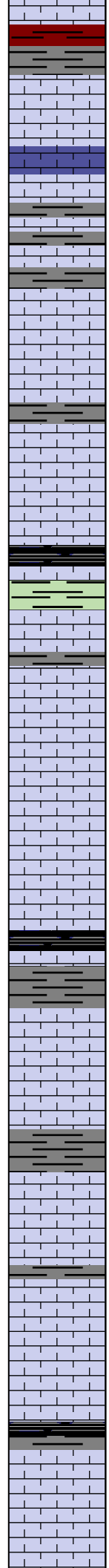
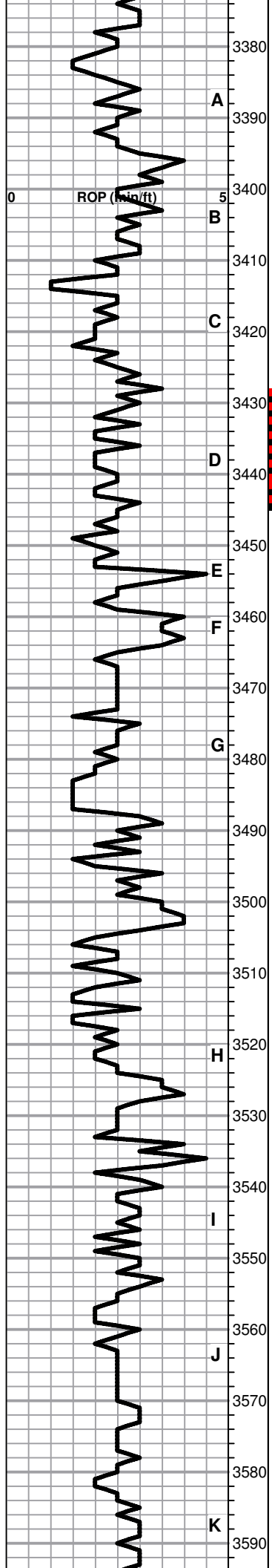
Lime, lt brn, fnxln

Shale, lime green- dove gray-red, soft mud

TORONTO 3361-1252

Lime, white-crm fn-vfxln, NS

DST # 1 3258'-3312' SEE
 HEADER FOR TEST
 SUMMARY



Lime, crm-lt brn, fn-vfxln
 Shale, lt gray-red, soft blocky-soft mud

LKC 3384-1275

Lime, lt-med brn-lt gray, fn-vfxln, slightly fossiliferous

Lime, crm-lt-med brn, fn-vfxln

Lime, crm-med brn, fn-vfxln

Lime, crm-lt brn, fn-vfxln bedded chalk with white wash, few foss chips, NFO or odor

Lime, white-crm, fnxln, thin fossil bed with oolites, spotty staining, NFO, very lt odor, sparry calcite backfill in primary porosity

Lime, crm-tan, fnxln
 Shale, black carbonaceous
 Lime, dove gray, fn-vfxln
 Shale, green soft

Lime, white-crm, fnxln, bed chalk, NS, cemented fossil beds with no show or staining

Lime, crm, mostly fnxln

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

Lime, crm, fnxln, hard bedded chalk

Lime, crm-micro xln

Shale, black carbonaceous, blocky
 Lime, crm-lt brn, fnxln
 Shale, med gray, calcareous

Lime, crm-tan-lt brn, fn-vfxln, NS

Lime, crm-lt brn, fn-micro xln

Shale, gray, soft mud

Lime, lt brn-lt gray, fn-micro xln NS

Lime, white, white chalk wash, fn-micro xln, NS

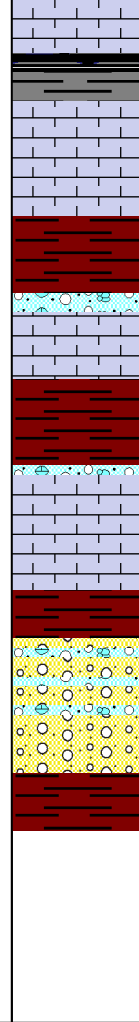
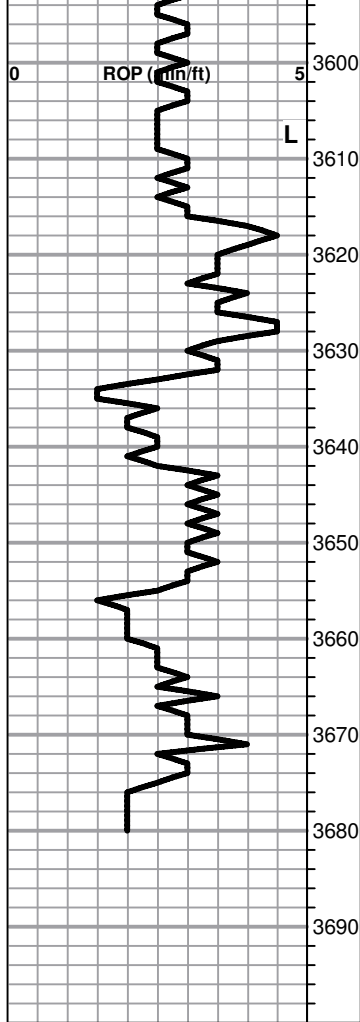
Lime, lt brn, fn-micro xln

Shale, gray-black carbonaceous

Lime, lt brn-lt gray, mostly fnxln with scattered fossil casts with contact staining, NFO or odor.

Lime, crm-tan-lt brn, fn-vfxln

DST # 2 3428'-3445' SEE
 HEADER FOR TEST
 SUMMARY



Lime, crm-lt brn, fn-vfxln

Shale, lt gray-black carbonaceous

Lime, lt brn, fn-micro xln

BKC 3616-1507

Shale, red soft mud with lt red wash

Lime, crm-lt brn, fnxln, slight bedded chalk, some clastic lime in part

Shale, red, soft mud with red wash

Lime, offwhite-lt brn, slightly dolomitic, fn-vfxln

Shale, red, soft with red wash

Mix of vari colored shales and cherts

Mix of vari colored shales and cherts

Shale, red-gray, soft sticky clumping

RTD 3680-1571

1st plug 1475' w/50 sxs
 2nd plug 800' w/100 sxs
 3rd plug 275' w/50 sxs
 4th plug 40' w/10 sxs
 Rathole 30 sxs
 Plug down 6:30AM
 8/25/2022, Quality Cement
 Tic# 3115

Arbuckle not found

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 3107
8-19-27

Date	8-18-22	Sec.	31	Twp.	11	Range	18	County	Ellis	State	Ks	On Location		Finish	2:00Am
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Location *N of HAYS TO Buckeye Rd*

Lease	<i>DesMARTEAU</i>	Well No.	<i>2</i>	Owner	<i>2 W 2 N</i>
Contractor	<i>Southwind</i>	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.			
Type Job	<i>SURFACE</i>				
Hole Size	<i>12 1/4</i>	T.D.	<i>224</i>	Charge To	<i>T D I</i>
Csg.	<i>8 1/2</i>	Depth		Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	<i>15</i>	Shoe Joint		Cement Amount Ordered	<i>750480/20 3-2</i>

Meas Line Displace *13*

EQUIPMENT

Pumptrk	<i>17</i>	No.	Cementer		Common	<i>130</i>
			Helper		Poz. Mix	<i>30</i>
Bulktrk		No.	Driver	<i>BILL JORDAN</i>	Gel.	<i>3</i>
			Driver		Calcium	<i>6</i>
Bulktrk	<i>21</i>	No.	Driver	<i>ROSS</i>		
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<i>S JTS 8 1/2 pet @</i>	Sand
<i>cent w/ 13 bbls</i>	Handling <i>159</i>
<i>pump plug w/</i>	Mileage
<i>cent did circ</i>	

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge *Surface*
Mileage *15*

Thanks

X Signature	<i>Douy Roberts</i>	Tax	
		Discount	
		Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 3115

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-25-22	31	11	18	Ellis	Ks		6:30 AM

Location HAYS NTO Buckeye rd 2W2N

Lease	DESARTEAU	Well No.	2	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Southwind				
Type Job	PTA				

Hole Size	7 7/8	T.D.	3679	Charge To	TDI INC
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Csg.		Depth		Street	
------	--	-------	--	--------	--

Tbg. Size		Depth		City	State
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Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
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Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	240A6940-4
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Meas Line		Displace		4" F10	
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EQUIPMENT

Pumptrk	16	No.	Cementer	Bill	Common	144
			Helper		Poz. Mix	96
Bulktrk		No.	Driver	Nick	Gel.	9
			Driver		Calcium	
Bulktrk		No.	Driver	Robert		
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
	Salt
Rat Hole	Flowseal 50#
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
147.5	50#
800	100#
275	50#
40	10#
RH	30#
	Handling 249
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer 1 Dry Hole plug
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

	Pumptrk Charge	Plug
	Mileage	15 (min)

X Signature	Day Robert	Thanks	Tax	Discount	Total Charge
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DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Desmarteau #2

31-11s-18w Ellis,KS

Start Date: 2022.08.23 @ 01:03:00

End Date: 2022.08.23 @ 08:21:02

Job Ticket #: 69508 DST #: 1

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

Printed: 2022.08.25 @ 16:51:06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

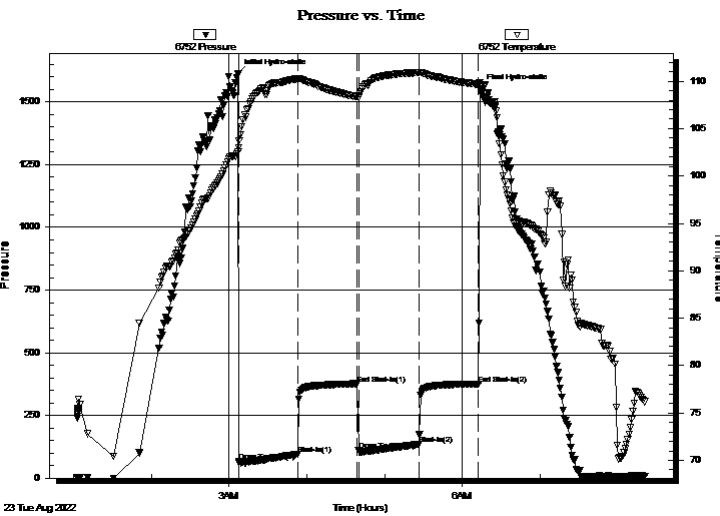
31-11s-18w Ellis,KS
Desmarteau #2
Job Ticket: 69508 **DST#: 1**
Test Start: 2022.08.23 @ 01:03:00

GENERAL INFORMATION:

Formation: **Lower Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:07:17
Time Test Ended: 08:21:02
Interval: **3258.00 ft (KB) To 3312.00 ft (KB) (TVD)**
Total Depth: 3312.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason/Richie Sa
Unit No: 72
Reference Elevations: 2109.00 ft (KB)
2099.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6752 Inside
Press@RunDepth: 135.51 psig @ 3304.00 ft (KB) Capacity: psig
Start Date: 2022.08.23 End Date: 2022.08.23 Last Calib.: 2022.08.23
Start Time: 01:03:01 End Time: 08:21:02 Time On Btm: 2022.08.23 @ 03:06:47
Time Off Btm: 2022.08.23 @ 06:13:47

TEST COMMENT: IF: fair blow , BOB 33 minutes, built to 14.14"
IS: no blow back
FF: fair blow built to 8.77"
FS: no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.95	102.55	Initial Hydro-static
1	67.18	102.98	Open To Flow (1)
46	95.30	110.26	Shut-In(1)
93	376.32	108.37	End Shut-In(1)
93	110.27	108.33	Open To Flow (2)
140	135.51	110.92	Shut-In(2)
186	375.78	109.66	End Shut-In(2)
187	1553.29	109.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MCW 24%M 76%W	2.61
20.00	WCM 40%W 60%M	0.28

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
ATTN: Herb Deines

31-11s-18w Ellis,KS
Desmarteau #2
Job Ticket: 69508 **DST#: 1**
Test Start: 2022.08.23 @ 01:03:00

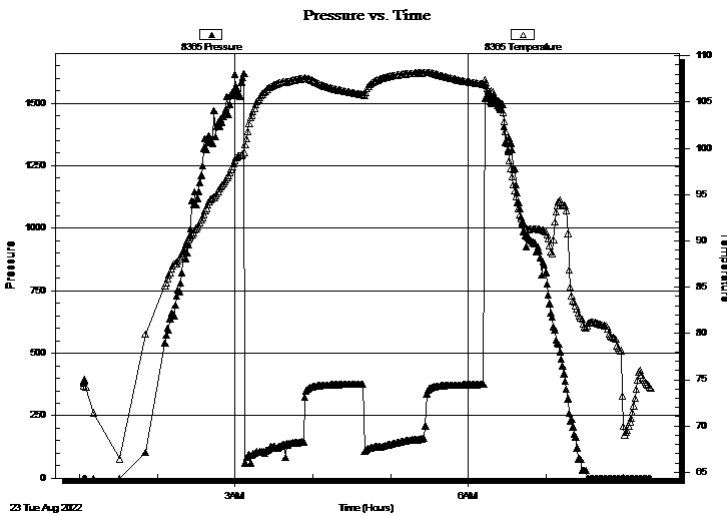
GENERAL INFORMATION:

Formation:	Lower Topeka			
Deviated:	No	Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened:	03:07:17			Tester: Leal Cason/Richie Sa
Time Test Ended:	08:21:02			Unit No: 72
Interval:	3258.00 ft (KB) To 3312.00 ft (KB) (TVD)			Reference Elevations: 2109.00 ft (KB)
Total Depth:	3312.00 ft (KB) (TVD)			2099.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition:	Good	KB to GR/CF: 10.00 ft

Serial #: 8365 Outside

Press@RunDepth:	psig @	3304.00 ft (KB)	Capacity:	psig	
Start Date:	2022.08.23	End Date:	2022.08.23	Last Calib.:	2022.08.23
Start Time:	01:03:01	End Time:	08:21:02	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: fair blow , BOB 33 minutes, built to 14.14"
IS: no blow back
FF: fair blow built to 8.77"
FS: no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MCW 24%M 76%W	2.61
20.00	WCM 40%W 60%M	0.28

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
ATTN: Herb Deines

31-11s-18w Ellis,KS
Desmarteau #2
Job Ticket: 69508 **DST#: 1**
Test Start: 2022.08.23 @ 01:03:00

Tool Information

Drill Pipe:	Length: 3240.00 ft	Diameter: 3.80 inches	Volume: 45.45 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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:	70000.00 lb
			<u>Total Volume: 45.45 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3258.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	83.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3234.00	
Hydraulic tool	5.00			3239.00	
Jars	5.00			3244.00	
EM Tool	3.00			3247.00	
Safety Joint	2.00			3249.00	
Packer	5.00			3254.00	29.00 Bottom Of Top Packer
Packer	4.00			3258.00	
Stubb	1.00			3259.00	
Perforations	6.00			3265.00	
Change Over Sub	1.00			3266.00	
Drill Pipe	32.00			3298.00	
Change Over Sub	1.00			3299.00	
Handling Sub	5.00			3304.00	
Recorder	0.00	6752	Inside	3304.00	
Recorder	0.00	8365	Outside	3304.00	
perforations	5.00			3309.00	
Bullnose	3.00			3312.00	54.00 Bottom Packers & Anchor
Total Tool Length:	83.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **31-11s-18w Ellis,KS**
 1310 Bison Rd. **Desmarteau #2**
 Hays, KS 67601 Job Ticket: 69508 **DST#: 1**
 ATTN: Herb Deines Test Start: 2022.08.23 @ 01:03:00

Mud and Cushion Information

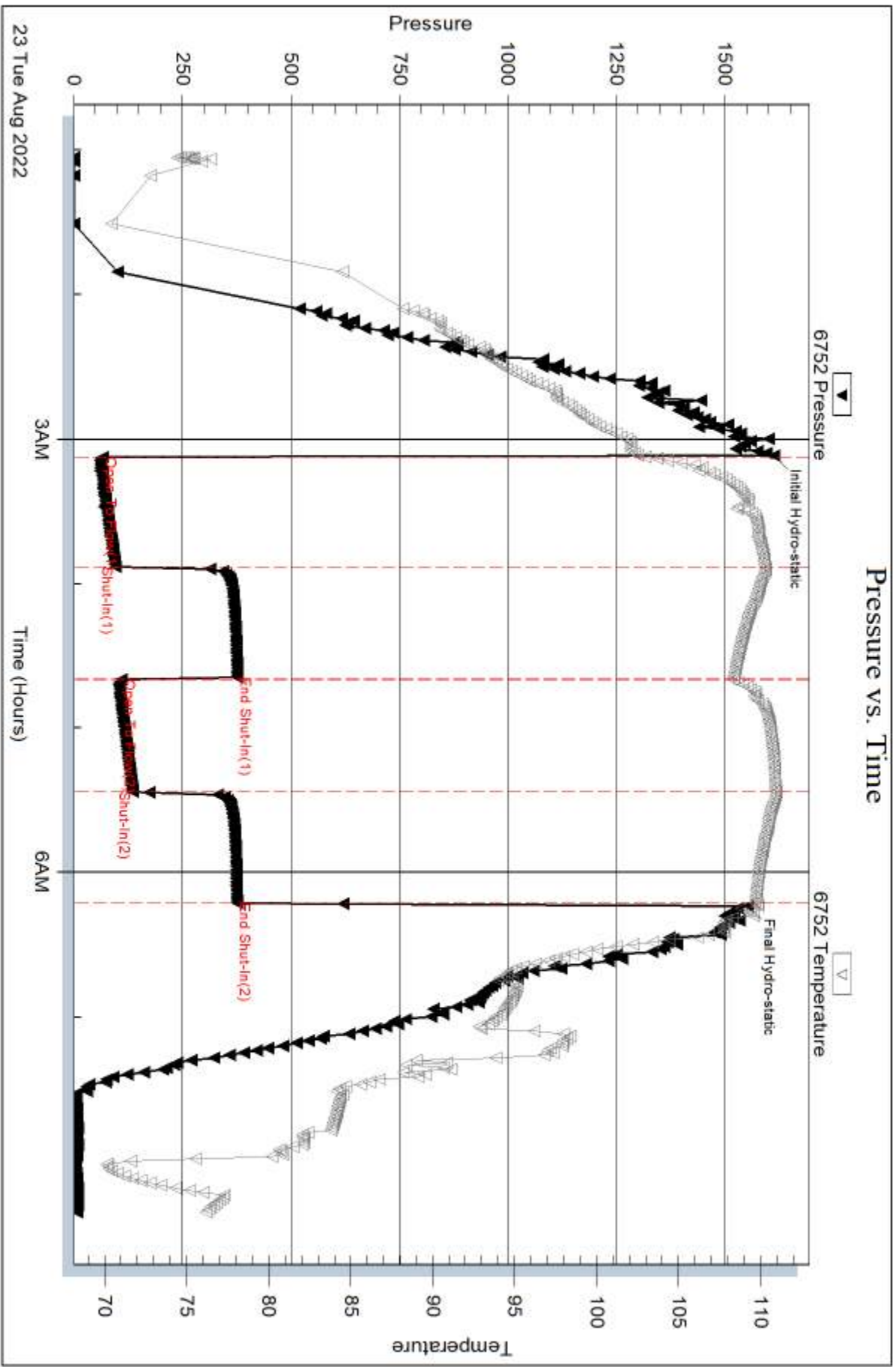
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	13000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 0.20 inches			

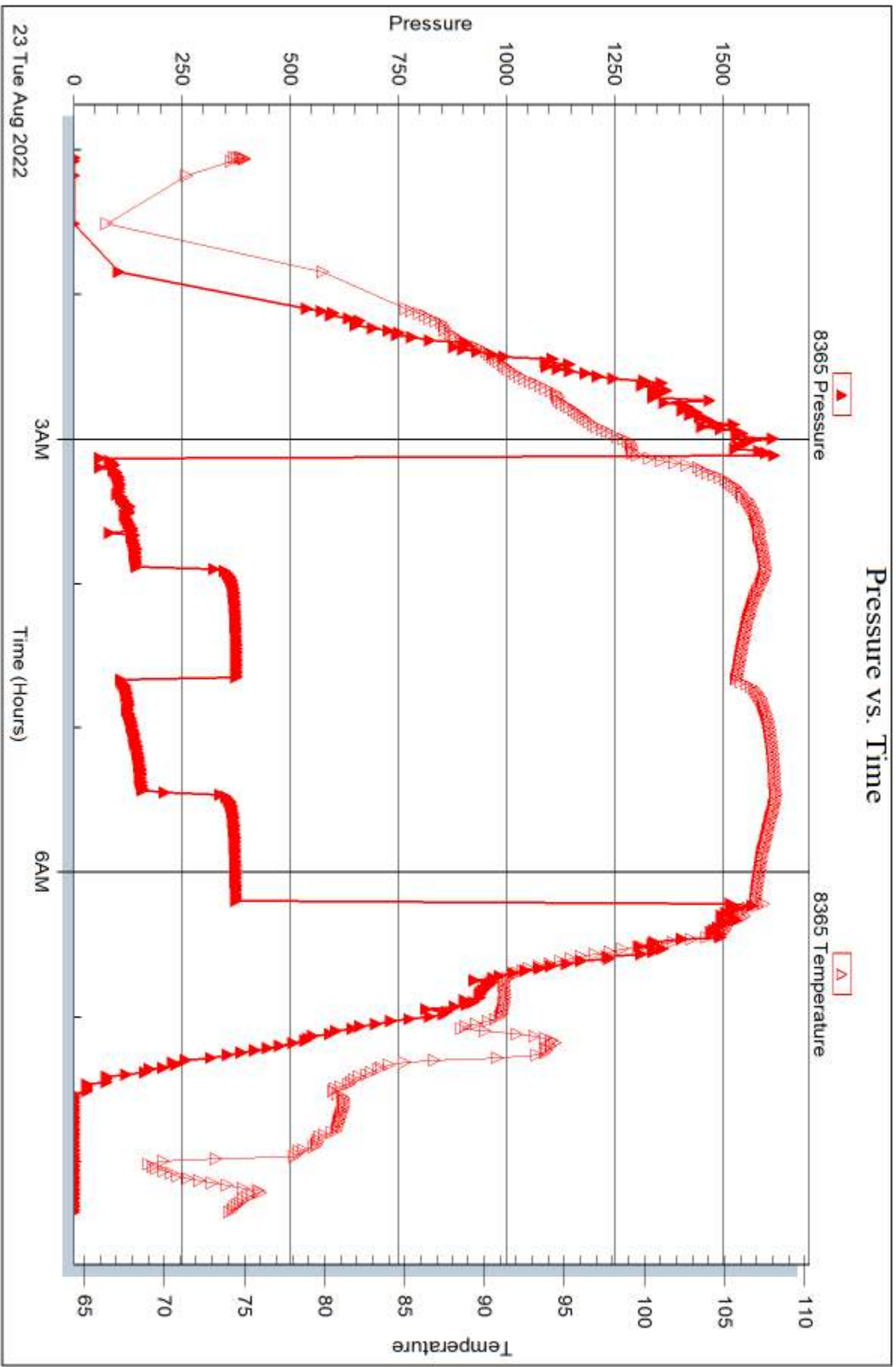
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MCW 24%M 76%W	2.609
20.00	WCM 40%W 60%M	0.281

Total Length: 206.00 ft Total Volume: 2.890 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW was .51@ 68 Degrees







DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Desmarteau #2

31-11s-18w Ellis,KS

Start Date: 2022.08.23 @ 21:46:00

End Date: 2022.08.24 @ 05:36:02

Job Ticket #: 69509 DST #: 2

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

Printed: 2022.08.25 @ 16:50:37



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

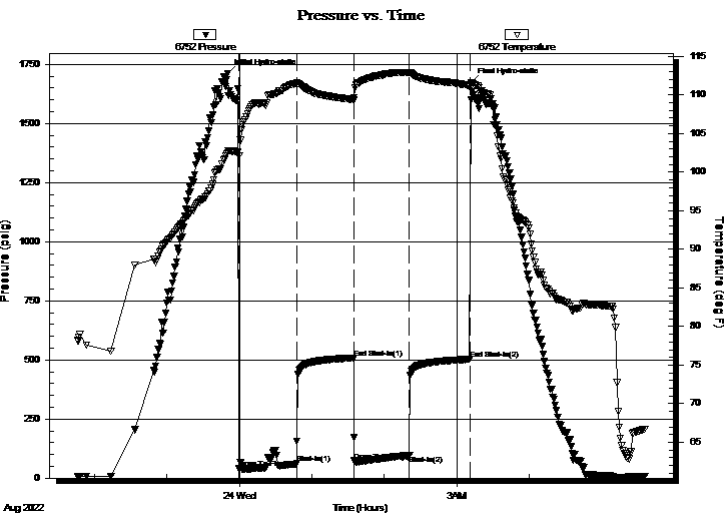
31-11s-18w Ellis,KS
Desmarteau #2
Job Ticket: 69509 **DST#: 2**
Test Start: 2022.08.23 @ 21:46:00

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 23:59:47 Tester: Leal Cason/Richie Sa
 Time Test Ended: 05:36:02 Unit No: 72
Interval: 3428.00 ft (KB) To 3445.00 ft (KB) (TVD) Reference Elevations: 2109.00 ft (KB)
 Total Depth: 3445.00 ft (KB) (TVD) 2099.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 6752 Inside
 Press@RunDepth: 96.08 psig @ 3434.00 ft (KB) Capacity: psig
 Start Date: 2022.08.23 End Date: 2022.08.24 Last Calib.: 2022.08.24
 Start Time: 21:46:01 End Time: 05:36:02 Time On Btm: 2022.08.23 @ 23:50:17
 Time Off Btm: 2022.08.24 @ 03:12:02

TEST COMMENT: IF: weak blow , built to 5.27"
 IS: no blow back
 FF: weak blow , built to 6.41"
 FS: no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.90	102.53	Initial Hydro-static
10	41.03	102.15	Open To Flow (1)
58	61.79	111.54	Shut-In(1)
105	507.65	109.43	End Shut-In(1)
105	72.91	109.64	Open To Flow (2)
151	96.08	112.91	Shut-In(2)
201	503.10	111.27	End Shut-In(2)
202	1670.85	111.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Water	1.74
30.00	MCW 20%M 80%W	0.42

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

TDI Inc.

31-11s-18w Ellis,KS

1310 Bison Rd.
Hays, KS 67601

Desmarteau #2

Job Ticket: 69509

DST#: 2

ATTN: Herb Deines

Test Start: 2022.08.23 @ 21:46:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:59:47

Time Test Ended: 05:36:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason/Richie Sa

Unit No: 72

Interval: 3428.00 ft (KB) To 3445.00 ft (KB) (TVD)

Total Depth: 3445.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2109.00 ft (KB)

2099.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8365 Outside

Press@RunDepth: psig @ 3434.00 ft (KB)

Start Date: 2022.08.23

End Date:

2022.08.24

Capacity: psig

Last Calib.:

2022.08.24

Start Time: 21:46:01

End Time:

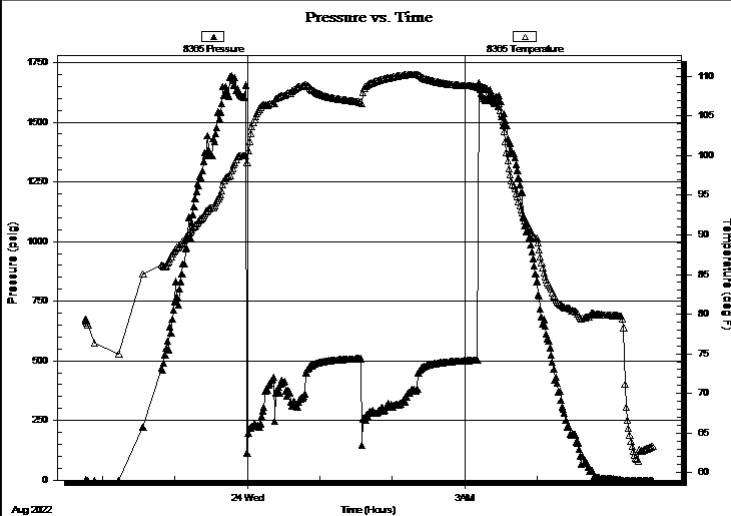
05:36:02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: weak blow , built to 5.27"
IS: no blow back
FF: weak blow , built to 6.41"
FS: no blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Water	1.74
30.00	MCW 20%M 80%W	0.42

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
ATTN: Herb Deines

31-11s-18w Ellis,KS
Desmarteau #2
Job Ticket: 69509 **DST#: 2**
Test Start: 2022.08.23 @ 21:46:00

Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.80 inches	Volume: 48.11 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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:	52000.00 lb
			<u>Total Volume: 48.11 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3428.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: hit bridge 10 stands from bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3404.00	
Hydraulic tool	5.00			3409.00	
Jars	5.00			3414.00	
EM Tool	3.00			3417.00	
Safety Joint	2.00			3419.00	
Packer	5.00			3424.00	29.00 Bottom Of Top Packer
Packer	4.00			3428.00	
Stubb	1.00			3429.00	
Handling Sub	5.00			3434.00	
Recorder	0.00	6752	Inside	3434.00	
Recorder	0.00	8365	Outside	3434.00	
Perforations	8.00			3442.00	
Bullnose	3.00			3445.00	17.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **31-11s-18w Ellis,KS**
 1310 Bison Rd. **Desmarteau #2**
 Hays, KS 67601 Job Ticket: 69509 **DST#: 2**
 ATTN: Herb Deines Test Start: 2022.08.23 @ 21:46:00

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:	68000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Water	1.739
30.00	MCW 20%M 80%W	0.421

Total Length: 154.00 ft Total Volume: 2.160 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: API RW .095@ 84 Degrees

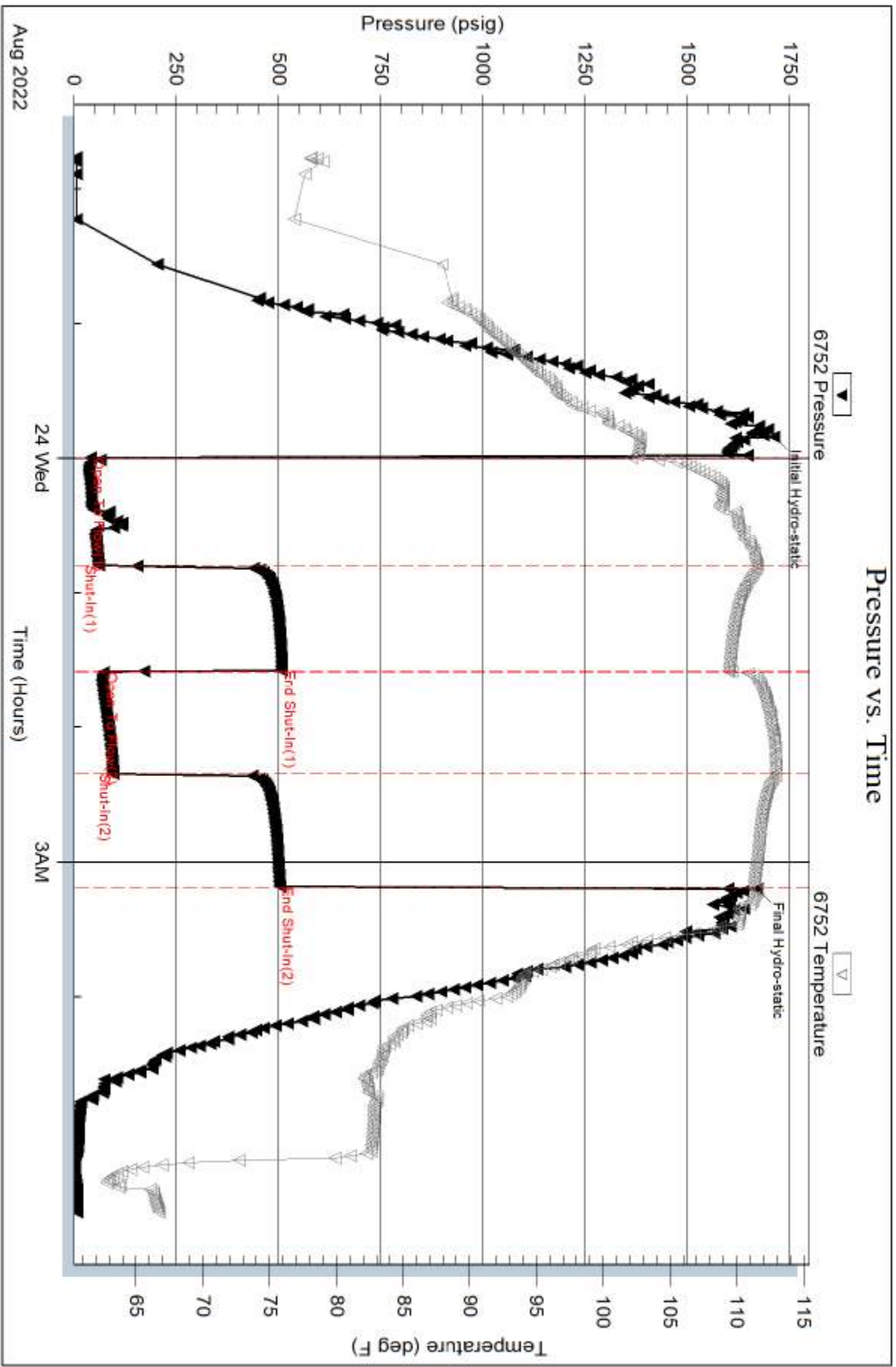
Serial #: 6752

Inside

TDI Inc.

Desmarteau #2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69509

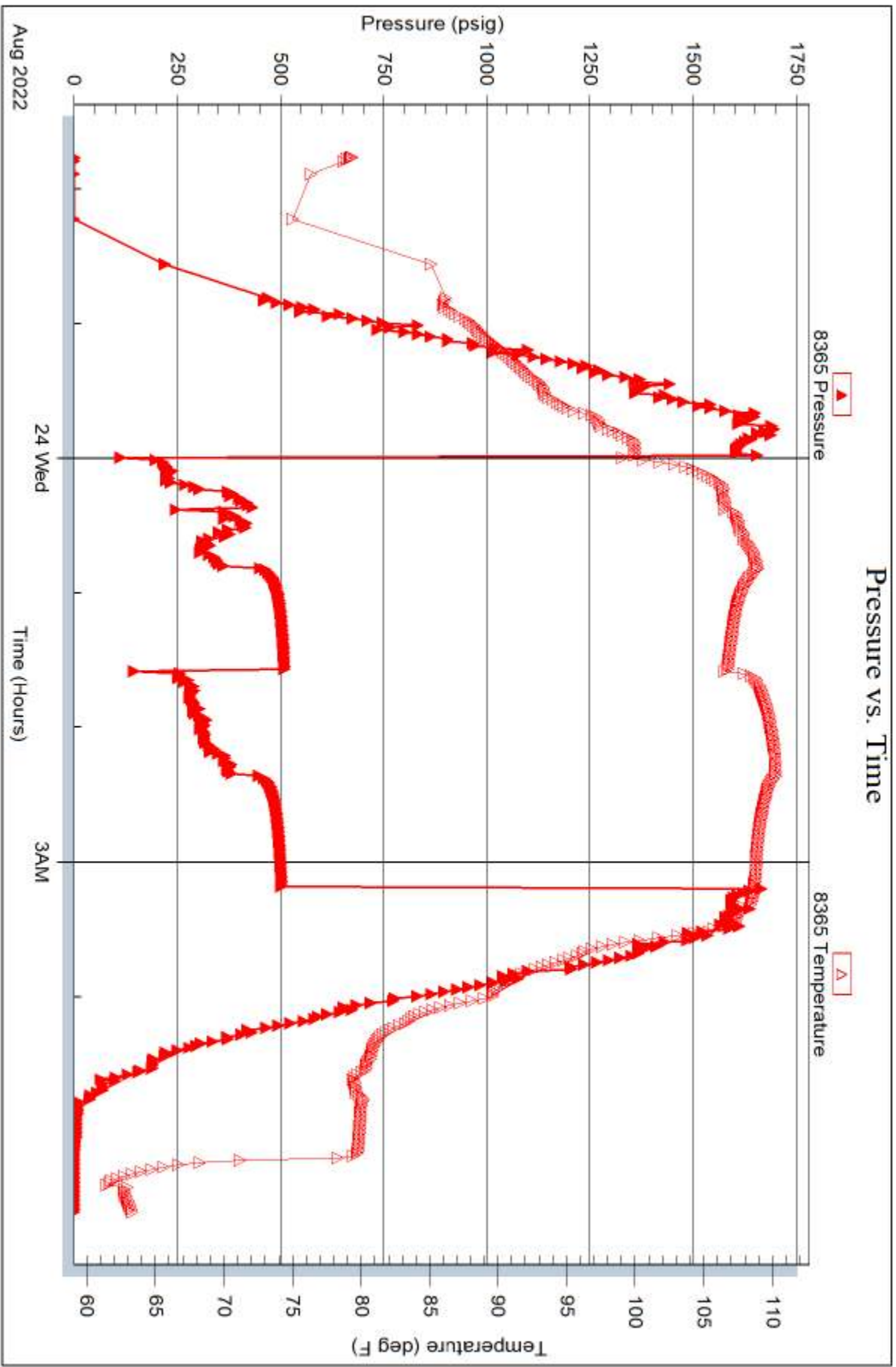
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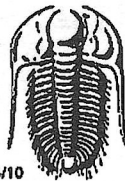
Serial #: 8365

Outside TDI Inc.

Desmarneau #2

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69508

Well Name & No. Desmarteau 2 Test No. 1 Date 8-22-22
 Company TDI Inc Elevation _____ KB _____ GL _____
 Address 1310 Bison Rd. Hays KS 67601
 Co. Rep / Geo. Herb Deines Rig Southwind 8
 Location: Sec. 31 Twp 11s Rge. 18w Co. Ellis State KS

Interval Tested 3258-3312 Zone Tested _____
 Anchor Length 54 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3253 Drill Collars Run _____ Vis _____
 Bottom Packer Depth 3258 Wt. Pipe Run _____ WL _____
 Total Depth 3312 Chlorides _____ ppm System _____ LCM _____

Blow Description IF fair blow BOB 33 minutes Built to 14.14"
ISI: No Blow back
FF: Fair Blow built to 8.77"
FST: No Blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>WCM</u>		<u>40</u>	<u>60</u>	
<u>186</u>	<u>MCW</u>		<u>76</u>	<u>24</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 206 BHT 111 Gravity N/C API RW .51 @ 68 °F Chlorides 13000 ppm

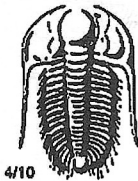
(A) Initial Hydrostatic 1614 Test 1800 T-On Location 22:00
 (B) First Initial Flow 67 Jars _____ T-Started 01:03
 (C) First Final Flow 95 Safety Joint _____ T-Open 03:07
 (D) Initial Shut-In 376 Circ Sub _____ T-Pulled 06:12
 (E) Second Initial Flow 110 Hourly Standby _____ T-Out 08:21
 (F) Second Final Flow 136 Mileage 40 60 Comments _____
 (G) Final Shut-In 376 Sampler _____
 (H) Final Hydrostatic 1553 Straddle _____ EM Tool _____

Initial Open 45 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder _____ Extra Copies _____
 Final Shut-In 45 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1860
 Sub Total 1860 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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.

785-259-9872



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69509

Well Name & No. Desmarteau 2 Test No. 2 Date 8-23-22
 Company TDI Inc Elevation 2109 KB 2099 GL
 Address 1310 Bison Rd Hays KS 67601
 Co. Rep / Geo. Herb Deines Rig Southwind 8
 Location: Sec. 31 Twp 11w Rge. 18s Co. Ellis State KS

Interval Tested 3428-3445 Zone Tested LKC "D"
 Anchor Length 17 Drill Pipe Run 3430 Mud Wt. 8.9
 Top Packer Depth 3423 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3428 Wt. Pipe Run 0 WL 8.8
 Total Depth 3445 Chlorides 3200 ppm System LCM 2

Blow Description IF: Weak blow, Built to 5.27" ~
ISI: No blow back
FF: Weak blow, Built to 6.41"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>MCW</u>		<u>80</u>	<u>820</u>	
<u>124</u>	<u>Water</u>				

Rec Total 154 BHT 113 Gravity N/C API RW .095 @ 84 °F Chlorides 68000 ppm

(A) Initial Hydrostatic 1712 Test 1800 T-On Location 21:15
 (B) First Initial Flow 41 Jars _____ T-Started 21:46
 (C) First Final Flow 62 Safety Joint _____ T-Open 23:59
 (D) Initial Shut-In 508 Circ Sub _____ T-Pulled 03:11
 (E) Second Initial Flow 73 Hourly Standby _____ T-Out 05:30
 (F) Second Final Flow 96 Mileage 4102 60+60 Comments Loaded Tools @
 (G) Final Shut-In 503 Sampler _____ 23:45 on 08/24/22
 (H) Final Hydrostatic 1671 Straddle _____ EM Tool -175

Initial Open 45 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 45 Extra Copies _____
 Sub Total -175
 Total 1745
 Sub Total 1920 MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]

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.