

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: LINDA # 1
 Location: SE NE NW NW, SEC. 11-T15S-R19W
 API: 15-051-26,999-00-00
 Pool:
 State: KANSAS

Field: UNNAMED
 Country: USA



Scale 1:240 Imperial

Well Name: LINDA # 1
 Surface Location: SE NE NW NW, SEC. 11-T15S-R19W
 Bottom Location:
 API: 15-051-26,999-00-00
 License Number: 4787
 Spud Date: 6/25/2021 Time: 12:00 AM
 Region: ELLIS COUNTY
 Drilling Completed: 7/1/2021 Time: 4:15 AM
 Surface Coordinates: 595' FNL & 1155' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2046.00ft
 K.B. Elevation: 2056.00ft
 Logged Interval: 2900.00ft To: 3750.00ft
 Total Depth: 3750.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.4072159
 Latitude: 38.7676877
 N/S Co-ord: 595' FNL
 E/W Co-ord: 1155' 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 #: 1
 Rig Type: MUD ROTARY
 Spud Date: 6/25/2021 Time: 12:00 AM
 TD Date: 7/1/2021 Time: 4:15 AM

ELEVATIONS

K.B. Elevation: 2056.00ft
K.B. to Ground: 10.00ft

Ground Elevation: 2046.00ft

NOTES

DECISION TO PLUG AND ABANDON WELL AFTER LOG ANALYSIS AND NEGATIVE RESULTS OF TWO DSTS.


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

WELL COMPARISON TABLE

	LINDA # 1 SE NE NW NW SEC.11-15S-18W KB 2056'	BIXENMAN # 1 NE NW SW NE SEC. 11-15S-18W KB 2065'	JERRY # 1 S2 S2 N2 NE SEC.10-15S-18W KB 2049'
	LOG TOPS		
Anhydrite-top	1271 +785	+800	+779
Anhydrite-base	1306 +750	+761	+742
Topeka	3024 - 968	- 959	- 971
Heebner Shale	3291-1235	-1233	-1243
Toronto	3308-1252	-1252	-1263
LKC	3336-1280	-1280	-1289
BKC	3586-1530	-1526	-1535
Conglomerate sand	3654-1598	-1607	-1595
Arbuckle	3672-1616	-1624	-1618
RTD	3750-1694	-1685	-1701
6-25-21	Spud 1:15 PM. Set 8 5/8" surface casing to 213.56' w 150 sks 80/20 pos 3%CC 2%gel, plug down 3:45 PM, slope 1 degree @214'. WOC 8 hours		
6-26-21	764', drill plug at 1:45AM with PDC bit		
6-27-21	2285', drilling, bit trip to run conventional button bit		
6-28-21	2948', drilling, displaced 2885-2908		
6-29-21	3370', drilling, CFS 3320', short trip, CFS 3370', DST #1 3316'-3370', TIWB		
6-30-21	3560', drilling, CFS 3659', DST # 2 3630'-3659', TIWB		
7-01-21	3750', drilling, RTD 3750' @ 4:15AM, CCH, TOWB, logs, decision to plug and abandon.		

DST # 1 TEST SUMMARY

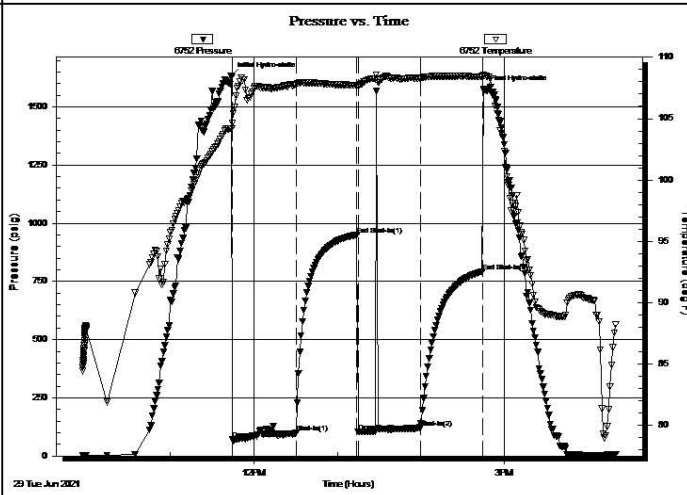
	DRILL STEM TEST REPORT		
	TDI Inc. 1310 Bison RD Hays, KS 67601-9696 ATTN: Herb Dienes	11-15s-19w Ellis,KS Linda #1 Job Ticket: 51056 DST#: 1 Test Start: 2021.06.29 @ 09:57:00	

GENERAL INFORMATION:

Formation: LKC C	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Kevin Webster
Time Tool Opened: 11:44:32	Unit No: 72
Time Test Ended: 16:20:02	Reference Elevations: 2055.00 ft (KB)
Interval: 3316.00 ft (KB) To 3370.00 ft (KB) (TVD)	2047.00 ft (CF)
Total Depth: 3370.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches Hole Condition: Poor	

Serial #: 6752	Outside		
Press@RunDepth: 122.10 psig @ 3352.00 ft (KB)	Capacity: psig		
Start Date: 2021.06.29	End Date: 2021.06.29	Last Calib.: 2021.06.29	
Start Time: 09:57:01	End Time: 16:20:02	Time On Btm: 2021.06.29 @ 11:43:32	
		Time Off Btm: 2021.06.29 @ 14:45:17	

TEST COMMENT: IF-Fair blow built to 9"
 ISI no blow back
 FF-WSB died, flushed tool, Fair blow built to 2 1/2"
 FS-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1634.15	104.16	Initial Hydro-static
1	73.01	104.62	Open To Flow (1)
47	99.12	107.80	Shut-In(1)
91	949.78	107.69	End Shut-In(1)
92	104.92	107.69	Open To Flow (2)
136	122.10	108.30	Shut-In(2)
181	791.74	108.45	End Shut-In(2)
182	1577.86	108.52	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)

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


60.00	SGOCM 5% gas 1% Oil 30% Water 64% 0.84	
125.00	VSOCM 1% Oil 99% Mud	1.75

Trilobite Testing, Inc

Ref. No: 51056

Printed: 2021.06.29 @ 17:14:30

DST # 2 TEST SUMMARY

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT	
	TDI Inc. 1310 Bison RD Hays, KS 67601-9696 ATTN: Herb Dienes	11-15s-19w Ellis,KS Linda #1 Job Ticket: 51057 DST#: 2 Test Start: 2021.06.30 @ 16:02:00

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:34:17
 Time Test Ended: 22:29:02

Interval: **3630.00 ft (KB) To 3659.00 ft (KB) (TVD)**
 Total Depth: 3370.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor

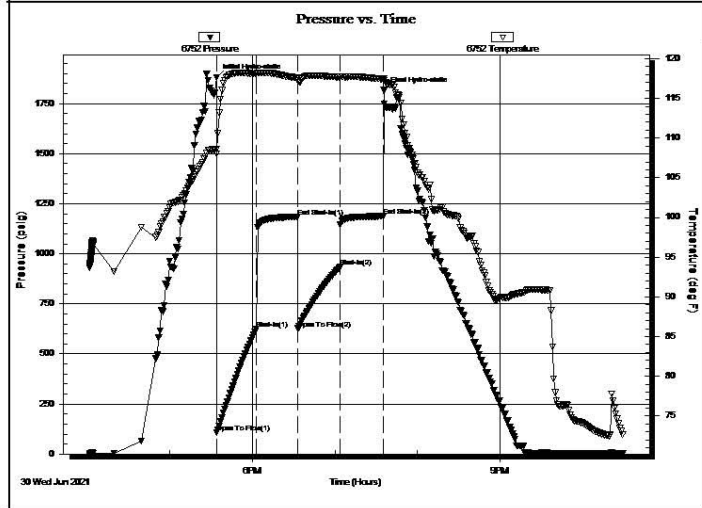
Test Type: Conventional Bottom Hole (Reset)
 Tester: Kevin Webster
 Unit No: 72

Reference Elevations: 2055.00 ft (KB)
 2047.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6752 Outside

Press@RunDepth: 932.78 psig @ 3631.00 ft (KB) Capacity: psig
 Start Date: 2021.06.30 End Date: 2021.06.30 Last Calib.: 2021.06.30
 Start Time: 16:02:01 End Time: 22:29:02 Time On Btm: 2021.06.30 @ 17:34:02
 Time Off Btm: 2021.06.30 @ 19:35:32

TEST COMMENT: IF-BOB in 3 min, Built to 199"
 IS- No blow back
 FF-BOB 2 min, built to 155"
 FS- No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.21	108.60	Initial Hydro-static
1	108.13	108.01	Open To Flow (1)
29	623.24	118.13	Shut-In(1)
59	1185.38	117.51	End Shut-In(1)
60	626.89	117.29	Open To Flow (2)
90	932.78	117.69	Shut-In(2)
121	1187.11	117.41	End Shut-In(2)
122	1816.58	117.46	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	SGO 5% Gas 95% Oil	0.07

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

201.00	OWCM 2% Oil 30% Water 68% Mud	2.82
868.00	OMCW 5% Oil 55% Water 40% Mud	12.18
868.00	GMCW 5% Gas 90% Water 5% Mud	12.18


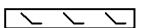











* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 51057

Printed: 2021.06.30 @ 23:05:24

ROCK TYPES


 Clystcol	 Dol Lime	 Lscongl	 Carbon Sh	 CglSandy
 Chtcongl	 Lmst fw<7	 shale, grn	 shale, red	
 Dolprim	 Lmst fw>7	 shale, gry	 Ss	

ACCESSORIES

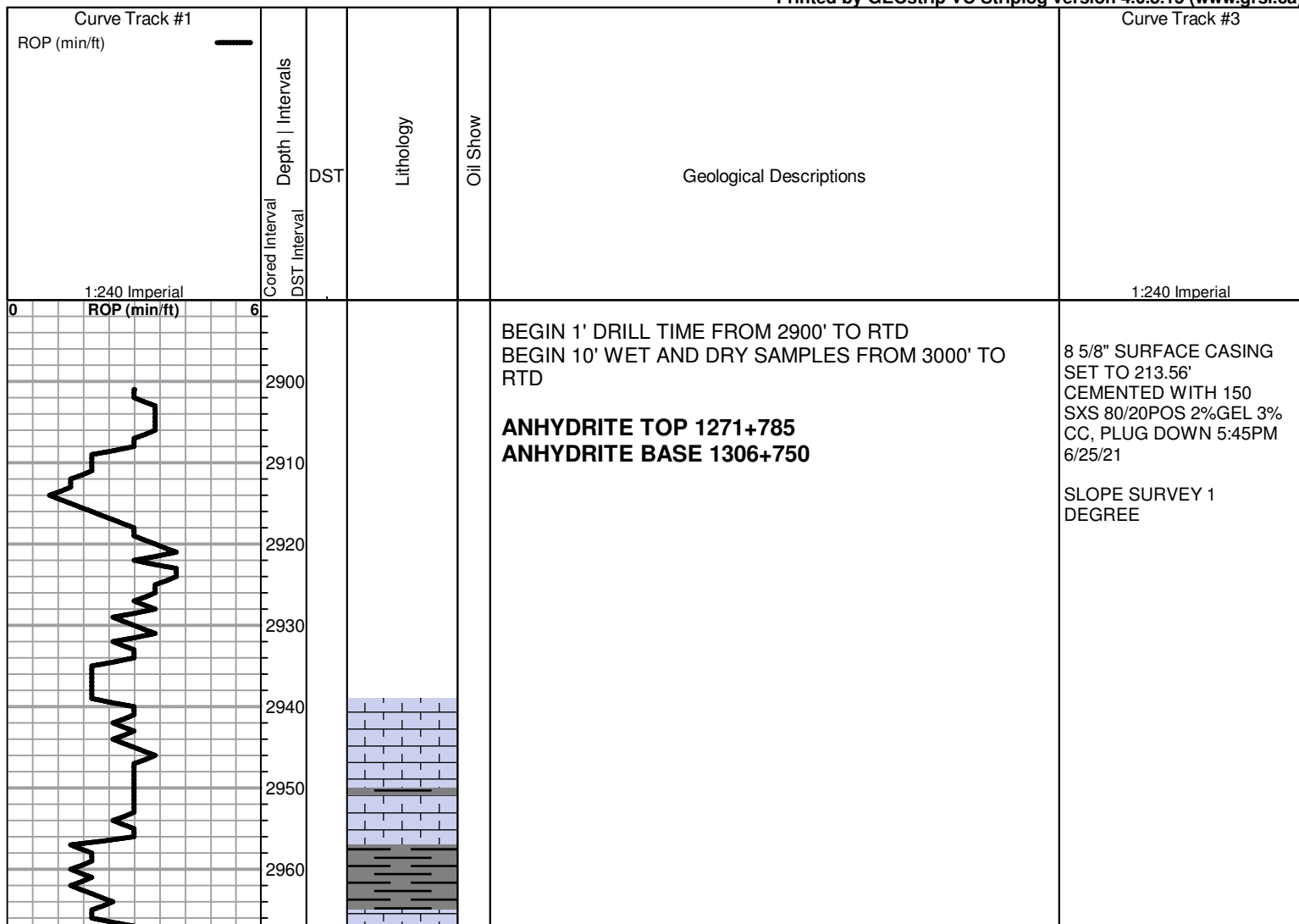
MINERAL

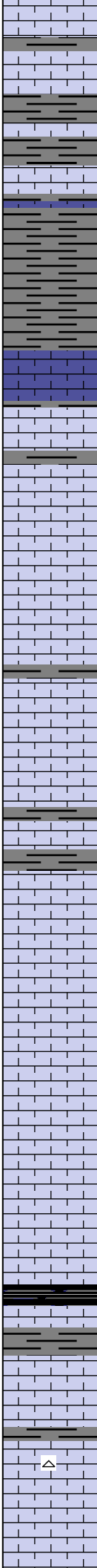
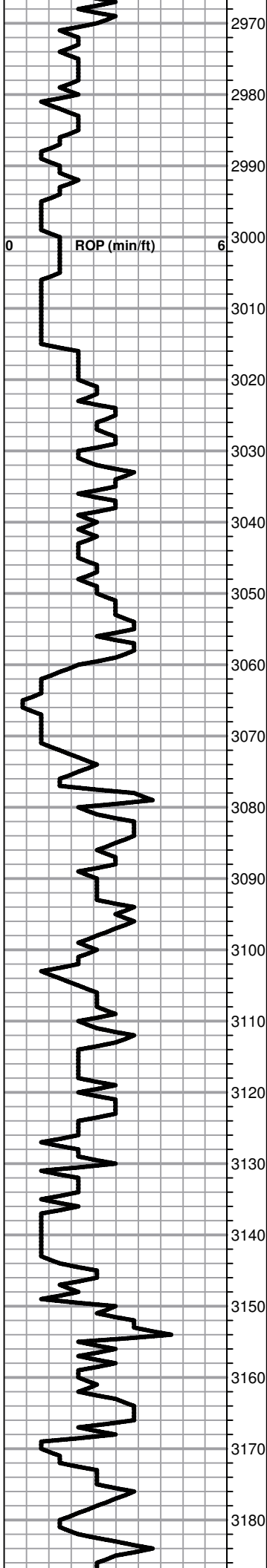
△ Chert White

FOSSIL

○ Oolite
 Oomoldic

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





Lime, lt-med brn-med grayish brn, fnxln, slight bed chalk, slightly fossiliferous

Lime, lt-med brn, fnxln, slightly fossiliferous

Shale, med gray, soft blocky

Lime, lt-med brn, fnxln, slightly fossiliferous

TOPEKA 3024-968

Lime, lt brn, fnxln, bedded chalk, slightly fossiliferous

Lime, white-lt brn, fnxln, slightly fossiliferous, slight bed chalk

Lime, lt brn-lt gray, fnxln, light white chalk wash, slightly fossiliferous

Lime, lt brn-lt gray, fn-vfxln

Lime, lt brn, fnxln-granular, slight bed chalk, NS, no odor

Lime, med grayish brn, fn-vfxln, slightly fossiliferous

Lime, lt-med brn-med grayish brn, fnxln

Lime, med brn-med grayish brn, fn-vfxln

Lime, lt brn, fnxln-granular in part, slight bed chalk, NS

Lime, lt brn, fnxln-granular, increase in bedded chalk, sticky

Lime, lt brn, fnxln-granular, bedded chalk, slightly fossiliferous

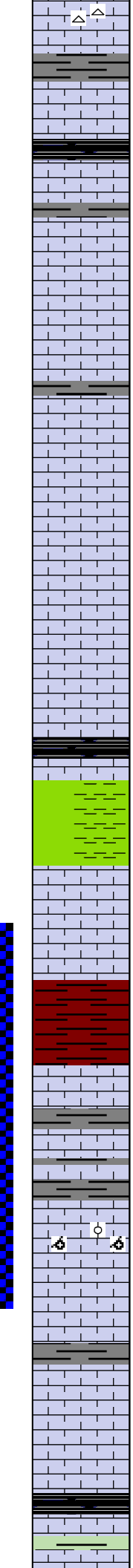
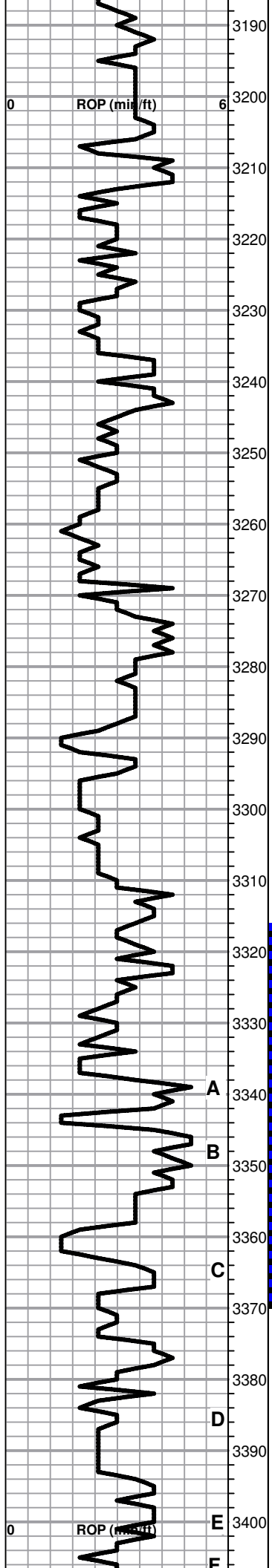
Lime, lt brn, granular, bedded chalk, slightly fossiliferous

Shale, black carbonaceous, blocky, fissile
Lime, med brn, micro xln

Lime, white-crm, fnxln-granular, bedded chalk with white wash

Lime, crm-tan-lt brn, fn-vfxln
Chert, lt gray, fresh, sharp

Lime, lt brn, fnxln-granular, bedded chalk



Lime, lt brn, fn-vfxln

Lime, lt brn, fn-vfxln

Shale, black carbonaceous, blocky, fissile
Lime, lt-med brn, fn-micro xln

Lime, lt brn-lt grayish brn, fn-vfxln, bedded chalk with lt chalky wash

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

Lime, lt brn, fn-vfxln, bedded chalk

Lime, lt brn, fnxln-granular, bedded chalk

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

Lime, lt brn-lt grayish brn, fn-vfxln

Lime, lt brn-lt grayish brn, fn-vfxln, slightly fossiliferous

HEEBNER SHALE 3291-1235
Shale, black carbonaceous, fissile, blocky
Lime, med brn, micro xln

Shale, dove gray-lime green, soft, sticky

TORONTO 3308-1252

Lime, white-crm, fn-micro xln, NS or odor

Lime, white-lt brn, fn-micro xln

Shale, red, soft with lt red wash

LKC 3336-1280
Lime, med-dark brn, fn-micro xln

Lime, lt-med brn-grayish brn, fn-micro xln

Lime, lt brn-lt grayish brn, fn-vfxln

Lime, lt brn, oomoldic, lt odor, NFO, lt scattered to sat stain

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

Lime, offwhite-lt brn, fn-micro xln, slight bedded chalk, NS

Lime, lt brn-med grayish brn, fn-micro xln, white chalk wash

Shale, black carbonaceous, blocky
Lime, offwhite, fn-micro xln

Lime, offwhite, fn-micro xln, slightly fossiliferous in part with scattered staining

CFS @3320', SHORT TRIP

DST # 1 3316' TO 3370'
SEE HEADER FOR TEST SUMMARY

A

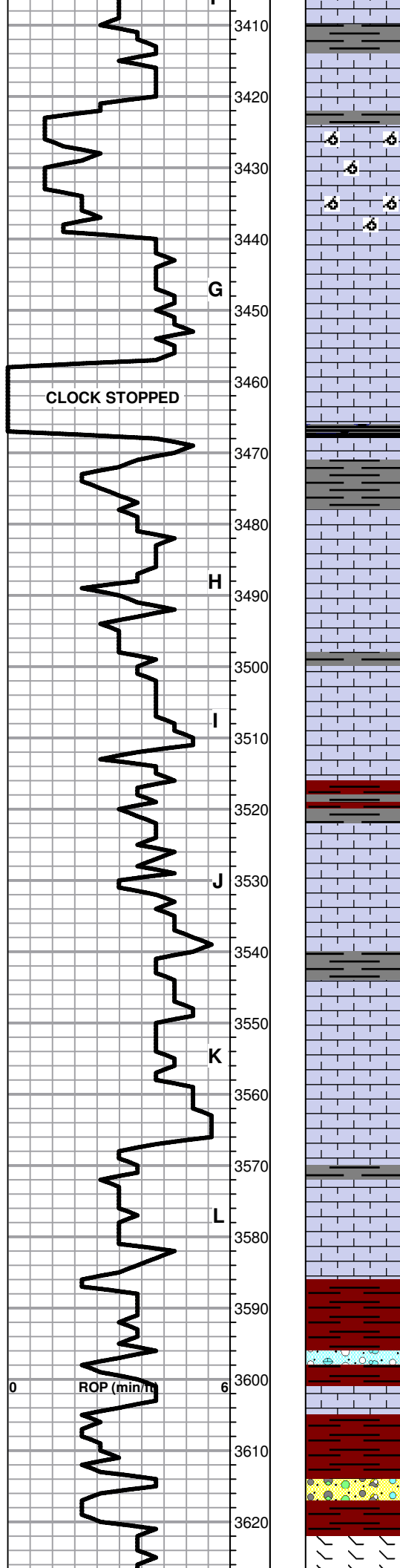
B

C

D

E

F



Lime, crm, fnxn, fossiliferous in part with scattered staining in fossil casts, NFO or odor

Lime, crm, fn-micro xln, bedded chalk with white wash

Lime, lt brn, oomoldic, mostly barren, NFO or odor

Lime, lt brn, oomoldic, chalky, white wash

Lime, white-lt brn, fn-micro xln, slight bedded chalk

Lime, crm, micro xln

Lime lt-med brn, fn-micro xln

Shale, black carbonaceous, blocky
Lime, white-lt brn, fnxn

Lime, white-lt brn, fnxn, some oomoldic with fossil casts, scattered spotty staining, NFO or odor

Lime, crm-lt brn, micro xln

Lime, crm-lt brn, fn-micro xln, NFO or odor, trace spotty staining in poorly developed porosity system

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

Shale, lt red-brn with lt red wash,
Lime, crm, fn-micro xln, NS

Lime, lt brn,fn-micro xln

Lime, crm-lt brn, micro xln

Lime, off white-lt brn, micro xln

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

Lime, lt brn, fn-vfxln

BKC 3586-1530

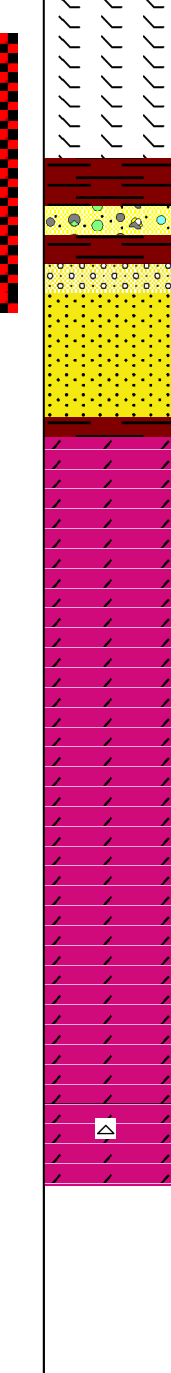
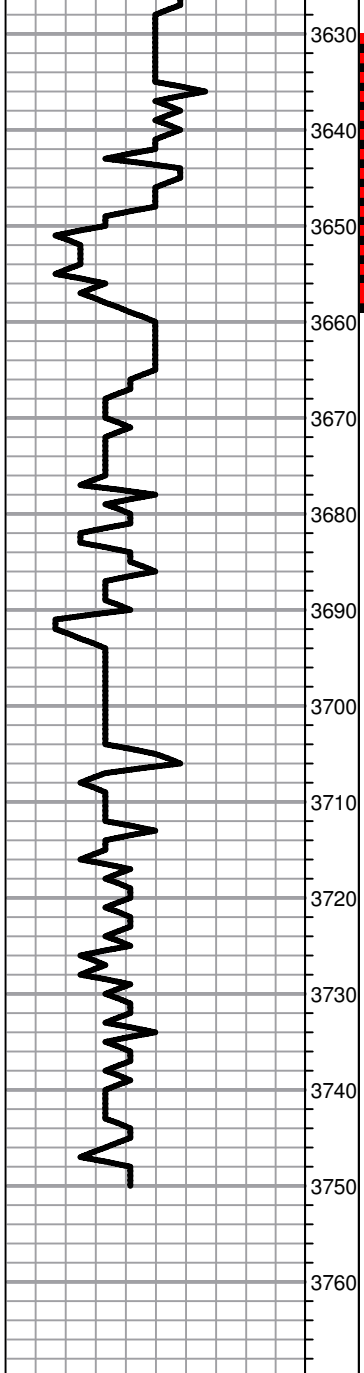
Shale, red-dark brn, soft to soft blocky

Clastic mix of shale and fine cherty material

Lime, white-crm with red staining in part, fn-vfxln

Shale, red-brn, cherty

Lime, lt brn, dolomitic, fn-vfxln, orange chert fragments, NS



Lime, lt brn-off white, fn-vfxln, NS

Lime, lt brn-off white, fn-micro xln

Shale, red-brn, soft with lt red wash, cherty

CONGLOMERATE SAND 3654-1598

Sandstone, poorly sorted, cemented grading into cleaner sandstone with better sorting, lt even staining, lt odor and few specks of free oil on crush

ARBUCKLE 3672-1616

Dolomite, ivory-crm, fnxln-granular, dark residual, NFO or odor, lt chalky wash in part

Dolomite, crm, fnxln-granular

Dolomite, ivory-crm, fnxln-granular, lt white chalk wash

Dolomite, crm, fnxln-granular with lt chalk wash

Dolomite, crm fnxln-granular

Dolomite, crm fnxln-granular, lt chalk wash with scattered glauconite

Dolomite, crm fnxln-granular, scattered white chert

RTD 3750-1694 LTD 3754-1698

DST # 2 3630' TO 3659'
SEE HEADER FOR TEST SUMMARY

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. 2304

Date	6-25-21	Sec.	11	Twp.	15	Range	19	County	Ellis	State	Ks	On Location		Finish	5:45pm
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	--------

Location **HAYS 6 1/2 S 4 1/2 W**

Lease	Linda	Well No.	1	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	SURFACE	Charge To	TDI
Hole Size	12 1/2	T.D.	214	Street	
Csg.	8 5/8	Depth	213	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	150.4 8/2003-2
Cement Left in Csg.	15	Shoe Joint		Meas Line	Displace 12 1/2

EQUIPMENT

Pumptrk	5	No.		Cementer	Bill	Common	120
				Helper		Poz. Mix	30
Bulktrk		No.		Driver	CP4:5	Gel.	3
Bulktrk	14	No.		Driver	Dodg	Calcium	6

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	
RAW 5 Jts 8 5/8 out e		Sand	
Cemt. w/ 150.4 8/20		Handling	159
pump plug w/ 12 1/2 bbls water		Mileage	
Cemt did cure		Float Equipment	8 5/8 surge
		Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	

Thanks

Pumptrk Charge	Surface	Tax	
Mileage	15 (min)	Discount	
Signature	Frank J. Rowe	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. 2311

Date	6-1-21	Sec.	11	Twp.	15	Range	19	County	ELLIS	State	Kansas	On Location		Finish	8:00 PM
------	--------	------	----	------	----	-------	----	--------	-------	-------	--------	-------------	--	--------	---------

Location Antonino 1W15 1/2 E

Lease	Linda	Well No.	1	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.	3750	Charge To	TDI
Csg.		Depth		Street	
Tbg. Size	4 1/2	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	2850 6940 4 7/8 gal
Meas Line		Displace			1/4" Flo Seal

EQUIPMENT

Pumptrk	No.	Cementor		Common	171
		Helper	B:11	Poz. Mix	114
Bulktrk	No.	Driver	17	Gel.	10
		Driver		Calcium	
Bulktrk	No.	Driver	15		
		Driver	Doug		

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	75#
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
36.52-	50.00	Sand	
13.00	50.00	Handling	295
5.50	80.00	Mileage	
27.5	50.00		

FLOAT EQUIPMENT

10.4	40	Guide Shoe	
30.4	R.H.	Centralizer	
15.24	M.H.	Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	
		wood plug	
		Pumptrk Charge	plug
		Mileage	15

Signature Frank J. Raso

Thanks

Tax _____
Discount _____
Total Charge _____



DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays, KS 67601-9696

ATTN: Herb Dienes

Linda #1

11-15s-19w Ellis,KS

Start Date: 2021.06.29 @ 09:57:00

End Date: 2021.06.29 @ 16:20:02

Job Ticket #: 51056 DST #: 1

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

Printed: 2021.07.01 @ 17:40:20

TDI Inc.
11-15s-19w Ellis,KS
Linda #1
DST # 1
LKC C
2021.06.29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Rd
Hays, KS 67601-9696
ATTN: Herb Dienes

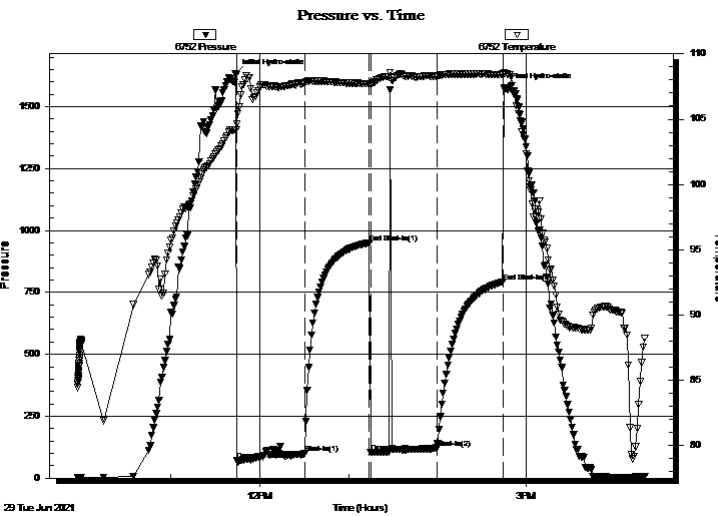
11-15s-19w Ellis,KS
Linda #1
Job Ticket: 51056 **DST#: 1**
Test Start: 2021.06.29 @ 09:57:00

GENERAL INFORMATION:

Formation: **LKC C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:44:32
Time Test Ended: 16:20:02
Interval: **3316.00 ft (KB) To 3370.00 ft (KB) (TVD)**
Total Depth: 3370.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Webster
Unit No: 72
Reference Elevations: 2055.00 ft (KB)
2047.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6752 Outside
Press@RunDepth: 122.10 psig @ 3352.00 ft (KB) Capacity: psig
Start Date: 2021.06.29 End Date: 2021.06.29 Last Calib.: 2021.06.29
Start Time: 09:57:01 End Time: 16:20:02 Time On Btm: 2021.06.29 @ 11:43:32
Time Off Btm: 2021.06.29 @ 14:45:17

TEST COMMENT: IF-Fair blow built to 9"
ISI no blow back
FF-WSB died, flushed tool, Fair blow built to 2 1/2"
FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1634.15	104.16	Initial Hydro-static
1	73.01	104.62	Open To Flow (1)
47	99.12	107.80	Shut-In(1)
91	949.78	107.69	End Shut-In(1)
92	104.92	107.69	Open To Flow (2)
136	122.10	108.30	Shut-In(2)
181	791.74	108.45	End Shut-In(2)
182	1577.86	108.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SGOCM 5% gas 1% Oil 30% Water 64%	0.84
125.00	VSOCM 1% Oil 99% Mud	1.75

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 Dienes

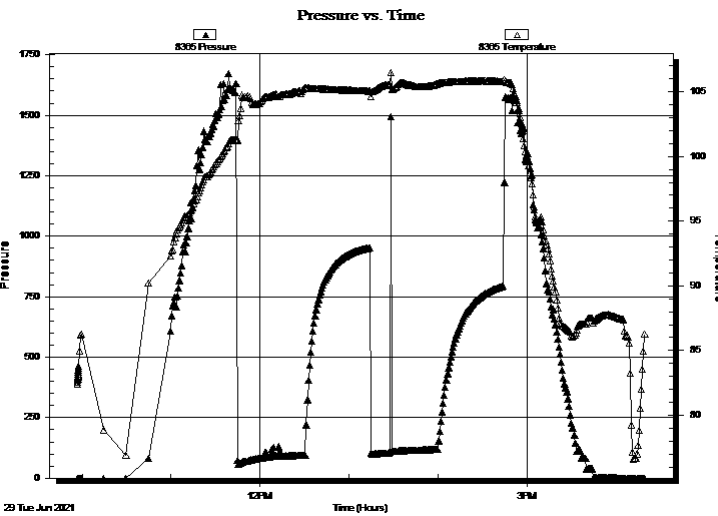
11-15s-19w Ellis,KS
Linda #1
Job Ticket: 51056 **DST#: 1**
Test Start: 2021.06.29 @ 09:57:00

GENERAL INFORMATION:

Formation: **LKC C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:44:32
Time Test Ended: 16:20:02
Interval: **3316.00 ft (KB) To 3370.00 ft (KB) (TVD)**
Total Depth: 3370.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Webster
Unit No: 72
Reference Elevations: 2055.00 ft (KB)
2047.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8365 Inside
Press@RunDepth: psig @ 3352.00 ft (KB) Capacity: psig
Start Date: 2021.06.29 End Date: 2021.06.29 Last Calib.: 2021.06.29
Start Time: 09:57:01 End Time: 16:19:02 Time On Btm:
Time Off Btm:

TEST COMMENT: IF-Fair blow built to 9"
ISI no blow back
FF-WSB died, flushed tool, Fair blow built to 2 1/2"
FS-No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SGOCM 5% gas 1% Oil 30% Water 64%	0.84
125.00	VSOCM 1% Oil 99% Mud	1.75

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 Dienes

11-15s-19w Ellis,KS
Linda #1
Job Ticket: 51056 **DST#: 1**
Test Start: 2021.06.29 @ 09:57:00

Tool Information

Drill Pipe:	Length: 3314.00 ft	Diameter: 3.80 inches	Volume: 46.49 bbl	Tool Weight: 2000.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 46.49 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3316.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	1	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			3302.00	
Hydraulic tool	5.00			3307.00	
Top Packer	5.00			3312.00	
Packer	4.00			3316.00	19.00 Bottom Of Top Packer
Stubb	1.00			3317.00	
Perforations	2.00			3319.00	
Change Over Sub	1.00			3320.00	
Drill Pipe	31.00			3351.00	
Change Over Sub	1.00			3352.00	
Recorder	0.00	8365	Inside	3352.00	
Recorder	0.00	6752	Outside	3352.00	
perforations	15.00			3367.00	
Bullnose	3.00			3370.00	54.00 Anchor Tool

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **11-15s-19w Ellis,KS**
 1310 Bison Rd **Linda #1**
 Hays, KS 67601-9696 Job Ticket: 51056 **DST#: 1**
 ATTN: Herb Dienes Test Start: 2021.06.29 @ 09:57:00

Mud and Cushion Information

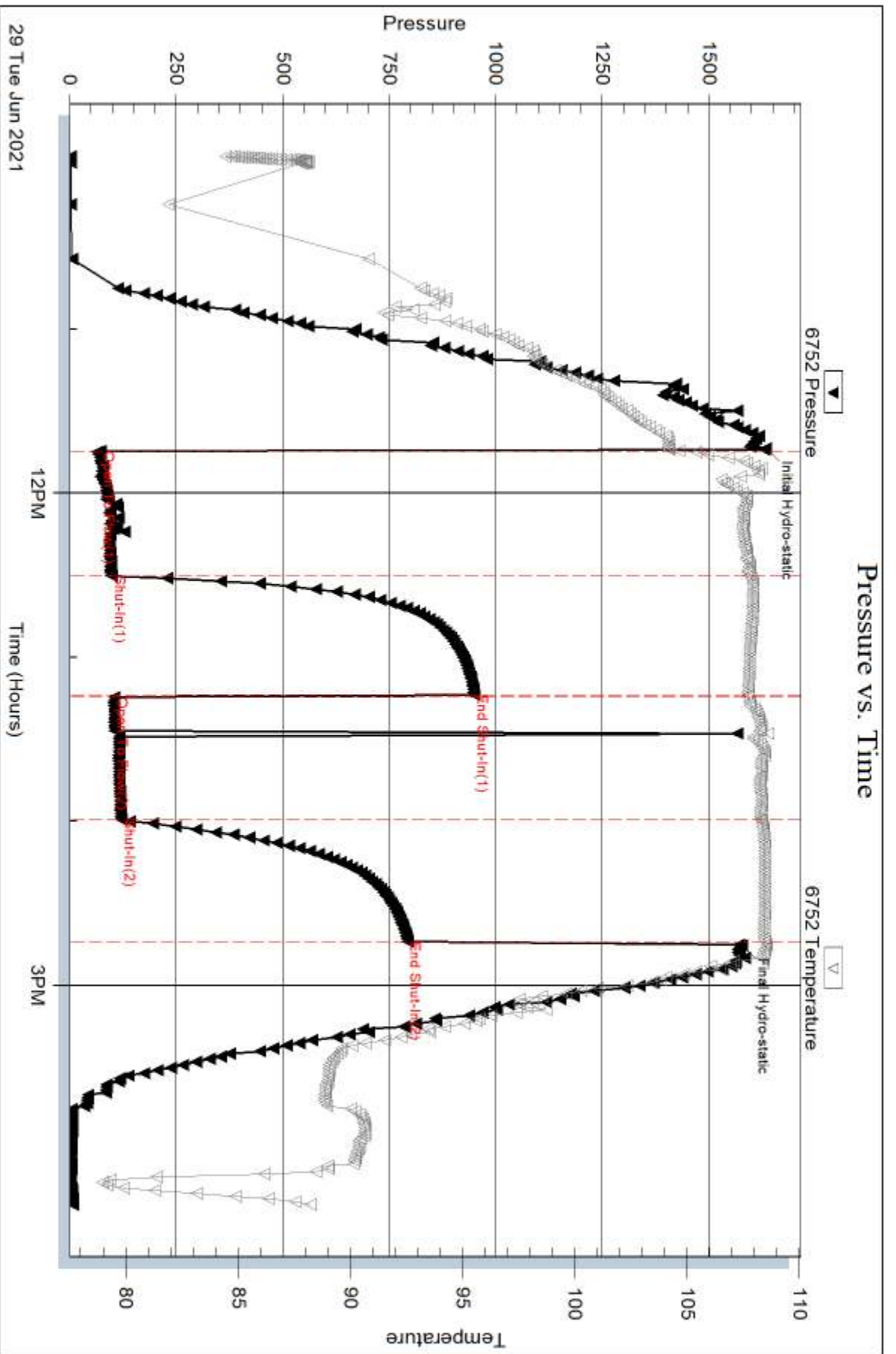
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SGOCM 5% gas 1% Oil 30% Water 64% Muc	0.842
125.00	VSOCM 1% Oil 99% Mud	1.753

Total Length: 185.00 ft Total Volume: 2.595 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 1# LCM



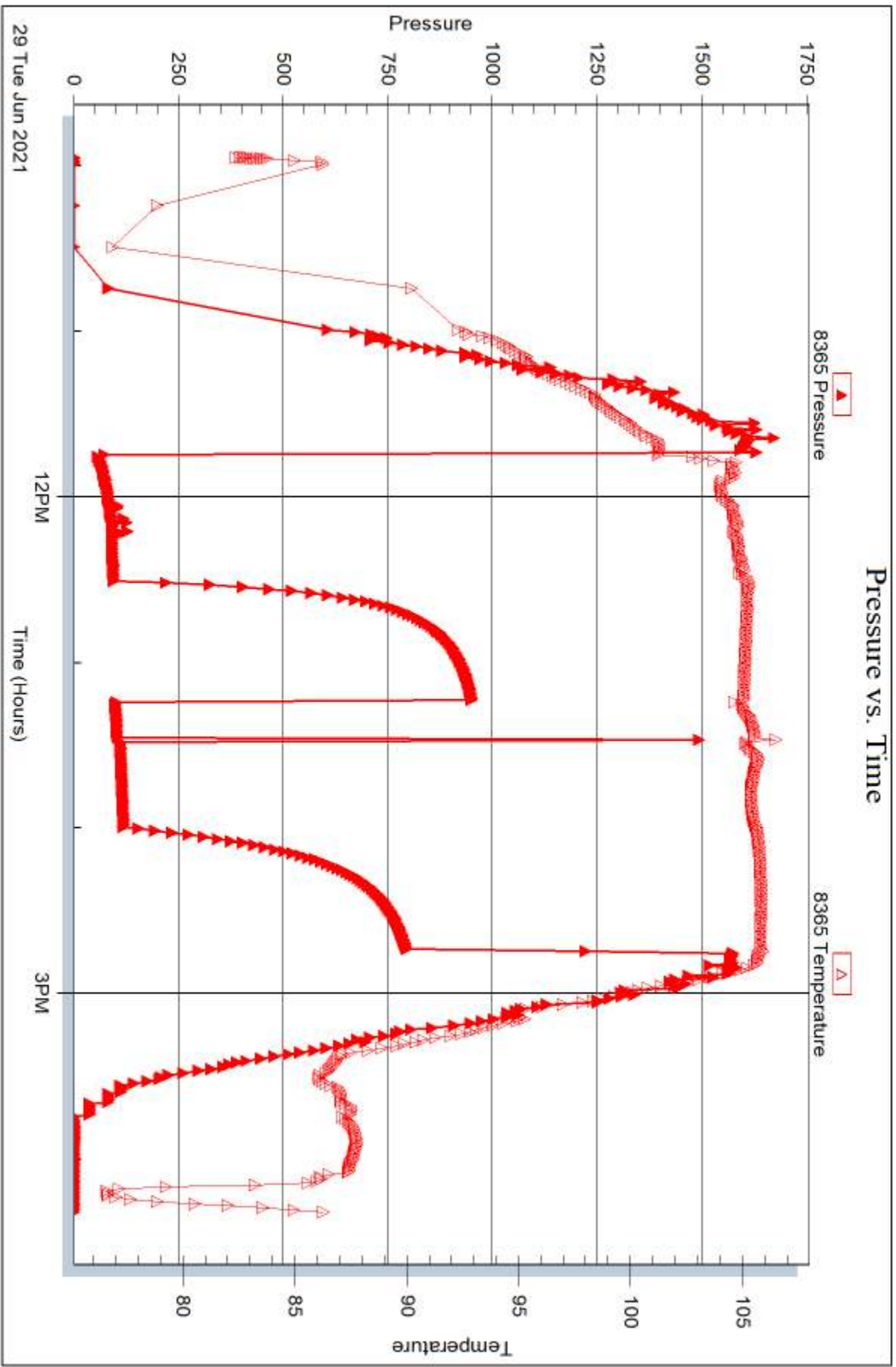
Serial #: 8365

Inside

TDI Inc.

Linda #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 51056

Printed: 2021.07.01 @ 17:40:21



DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays, KS 67601-9696

ATTN: Herb Dienes

Linda #1

11-15s-19w Ellis,KS

Start Date: 2021.06.30 @ 16:02:00

End Date: 2021.06.30 @ 22:29:02

Job Ticket #: 51057 DST #: 2

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

Printed: 2021.07.01 @ 17:39:50

TDI Inc. 11-15s-19w Ellis,KS Linda #1 DST # 2 Conglomerate 2021.06.30



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Rd
Hays, KS 67601-9696
ATTN: Herb Dienes

11-15s-19w Ellis,KS
Linda #1
Job Ticket: 51057 **DST#: 2**
Test Start: 2021.06.30 @ 16:02:00

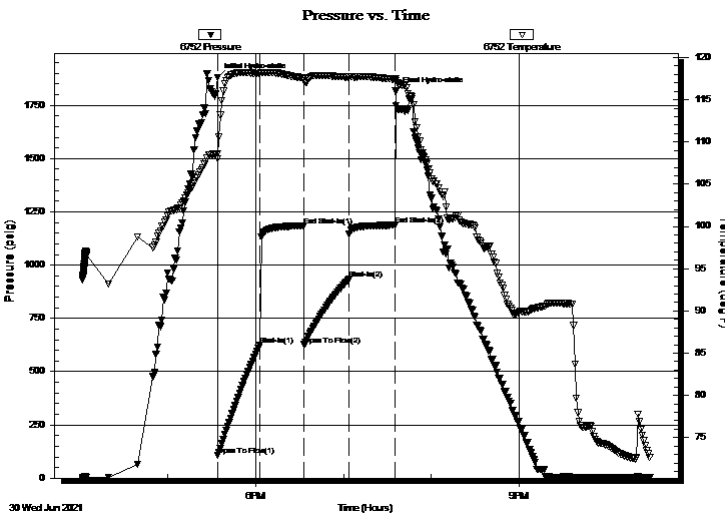
GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:34:17
Time Test Ended: 22:29:02
Interval: **3630.00 ft (KB) To 3659.00 ft (KB) (TVD)**
Total Depth: 3370.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Kevin Webster
Unit No: 72
Reference Elevations: 2055.00 ft (KB)
2047.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6752 Outside
Press@RunDepth: 932.78 psig @ 3631.00 ft (KB) Capacity: psig
Start Date: 2021.06.30 End Date: 2021.06.30 Last Calib.: 2021.06.30
Start Time: 16:02:01 End Time: 22:29:02 Time On Btm: 2021.06.30 @ 17:34:02
Time Off Btm: 2021.06.30 @ 19:35:32

TEST COMMENT: IF-BOB in 3 min, Built to 199"
IS- No blow back
FF-BOB 2 min, built to 155"
FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.21	108.60	Initial Hydro-static
1	108.13	108.01	Open To Flow (1)
29	623.24	118.13	Shut-In(1)
59	1185.38	117.51	End Shut-In(1)
60	626.89	117.29	Open To Flow (2)
90	932.78	117.69	Shut-In(2)
121	1187.11	117.41	End Shut-In(2)
122	1816.58	117.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SGO 5% Gas 95% Oil	0.07
201.00	OWCM 2% Oil 30% Water 68% Mud	2.82
868.00	OMCW 5% Oil 55% Water 40% Mud	12.18
868.00	GMCW 5% Gas 90% Water 5% Mud	12.18

* Recovery from multiple tests

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 Dienes

11-15s-19w Ellis,KS
Linda #1
Job Ticket: 51057 **DST#: 2**
Test Start: 2021.06.30 @ 16:02:00

Tool Information

Drill Pipe:	Length: 3641.00 ft	Diameter: 3.80 inches	Volume: 51.07 bbl	Tool Weight: 2000.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3630.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut-In Tool	5.00			3616.00	
Hydraulic tool	5.00			3621.00	
Top Packer	5.00			3626.00	
Packer	4.00			3630.00	19.00 Bottom Of Top Packer
Stubb	1.00			3631.00	
Recorder	0.00	8365	Inside	3631.00	
Recorder	0.00	6752	Outside	3631.00	
perforations	25.00			3656.00	
Bullnose	3.00			3659.00	29.00 Anchor Tool
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc.
1310 Bison Rd
Hays, KS 67601-9696
ATTN: Herb Dienes

11-15s-19w Ellis,KS
Linda #1
Job Ticket: 51057 **DST#: 2**
Test Start: 2021.06.30 @ 16:02:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 10000.00 ppm			
Filter Cake: inches			

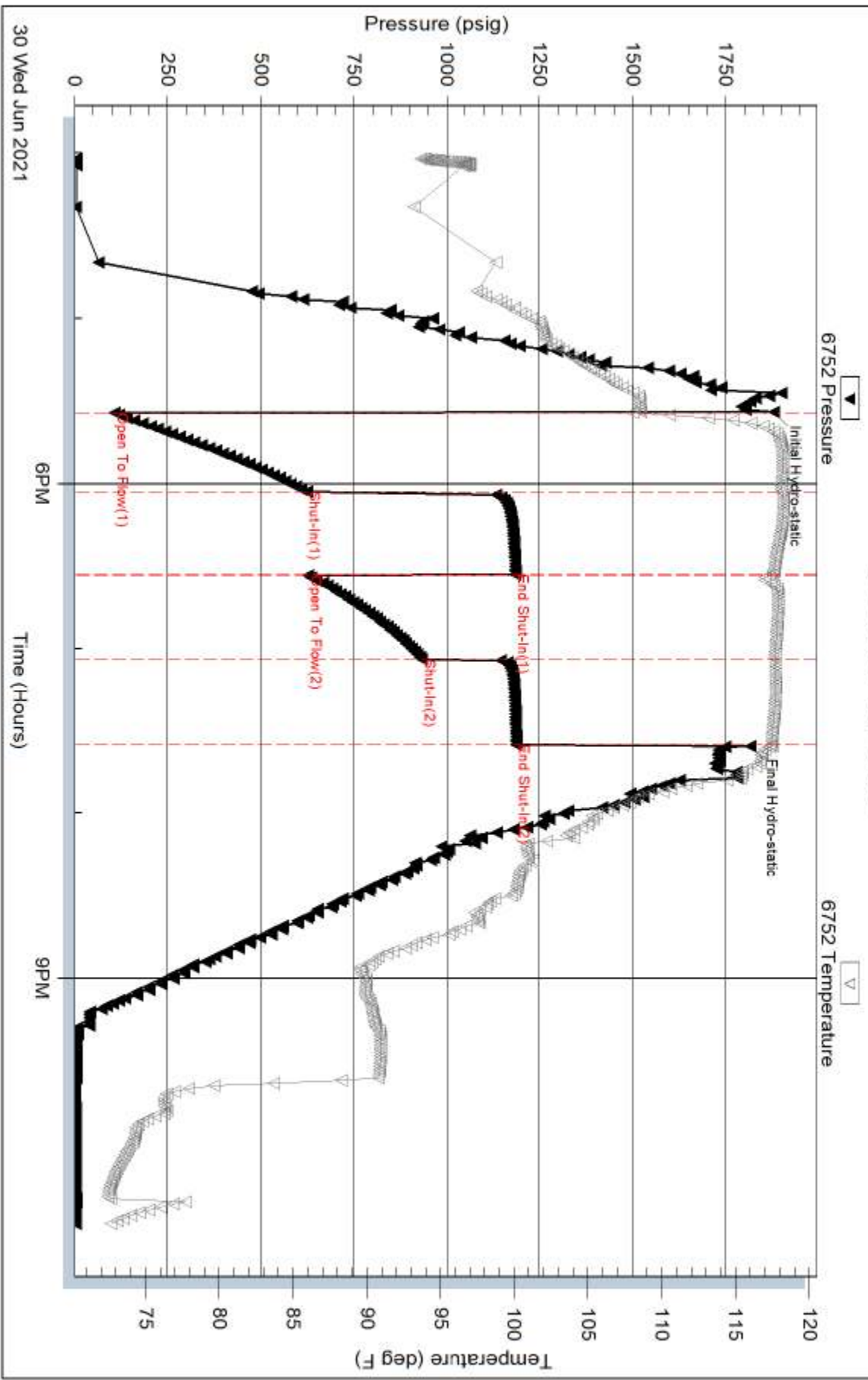
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SGO 5% Gas 95% Oil	0.070
201.00	OWCM 2% Oil 30% Water 68% Mud	2.820
868.00	OMCW 5% Oil 55% Water 40% Mud	12.176
868.00	GMCW 5% Gas 90% Water 5% Mud	12.176

Total Length: 1942.00 ft Total Volume: 27.242 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 2# LCM

Pressure vs. Time



30 Wed Jun 2021

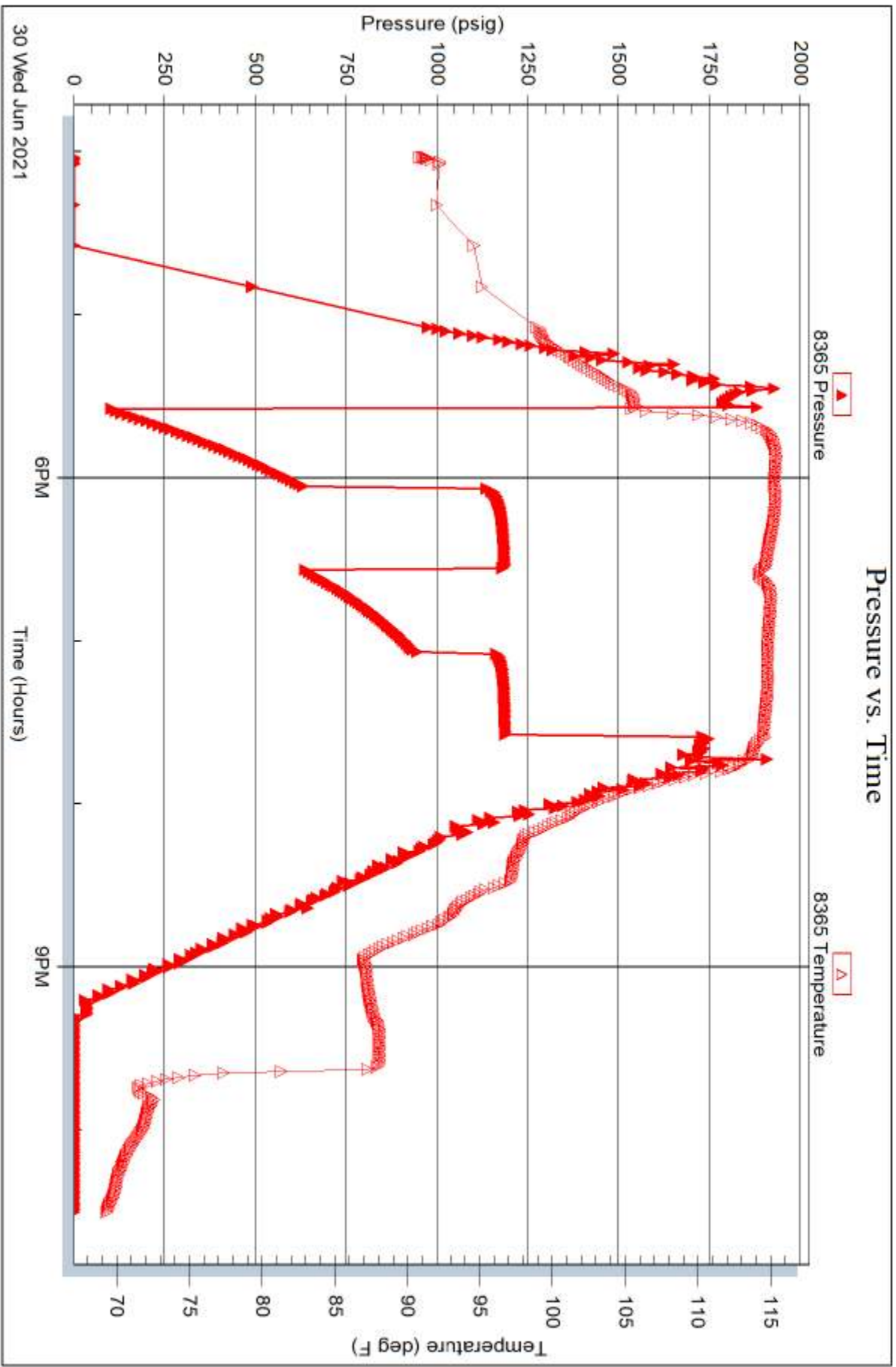
Serial #: 8365

Inside

TDI Inc.

Linda #1

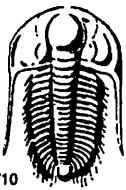
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 51057

Printed: 2021.07.01 @ 17:39:51



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51056

Well Name & No. Cinda #1 Test No. 1 Date 6/29/21
 Company TDF Inc. Elevation 2099 KB 2047 GL
 Address 1310 Bison Rd Hays, KS 67601-9696
 Co. Rep / Geo. Herb Dienes Rig Southwind #1
 Location: Sec. 11 Twp. 19S Rge. 19W Co. Ellis State KS

Interval Tested 3316 - 3370 Zone Tested LKC "C"
 Anchor Length 54 Drill Pipe Run ~~3314~~ 3314 Mud Wt. 9.0
 Top Packer Depth 3311 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 3316 Wt. Pipe Run 0 WL 9.8
 Total Depth 3370 Chlorides 3000 ppm System LCM 1 #

Blow Description FF - Fair blow built to 9"
LSI - No blow back
FF - WSB died, Flushed tool, Fair blow built to 2 1/2"
FSI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1205</u>	<u>190cm</u>	<u>0</u>	<u>1</u>	<u>99</u>	<u>0</u>
<u>60</u>	<u>90cm</u>	<u>5</u>	<u>1</u>	<u>30</u>	<u>64</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

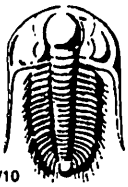
Rec Total 185' BHT 106°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1634</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>08:45</u>
(B) First Initial Flow <u>73</u>	<input type="checkbox"/> Jars _____	T-Started <u>09:57</u>
(C) First Final Flow <u>99</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>11:49</u>
(D) Initial Shut-In <u>940</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>14:44</u>
(E) Second Initial Flow <u>104</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>16:20</u>
(F) Second Final Flow <u>122</u>	<input checked="" type="checkbox"/> Mileage <u>29rt 36.25</u>	Comments _____
(G) Final Shut-In <u>791</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1577</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby _____	Total <u>1236.25</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1236.25</u>	

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

Our Representative Kevin Webster

Approved By _____
 Trilobite Testing Inc. shall not be liable for damaged or 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 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51057

Well Name & No. Linda #1 Test No. 2 Date 6/30/21
 Company TPI Inc. Elevation 2055 KB 2047 GL
 Address 1310 Bison Rd Hays, KS 67601-9696
 Co. Rep / Geo. Herb Diener Rig Southwind #1
 Location: Sec. 11 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3630-3659 Zone Tested conglomerate
 Anchor Length 29' Drill Pipe Run 3641 Mud Wt. 9.3
 Top Packer Depth 3625 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3630 Wt. Pipe Run 0 WL 4.0
 Total Depth 3659 Chlorides 10,000 ppm System LCM 2 #

Blow Description IF - Bob in 3min, Built to 199"
FSI - No blow back
FF - Bob in 2min, built to 155
FSI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
5	SGO	5	95		
2001	awcm		2	30	68
868	amcw		5	50	40
868	Gmcw	5		90	5

Rec Total 1942 BHT 115°F Gravity 40@82' API RW .209@81 °F Chlorides 19,000 ppm

- (A) Initial Hydrostatic 1879
- (B) First Initial Flow 108
- (C) First Final Flow 623
- (D) Initial Shut-In 1185
- (E) Second Initial Flow 626
- (F) Second Final Flow 932
- (G) Final Shut-In 1187
- (H) Final Hydrostatic 1816

- Test 1200
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 29rt 72.50
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

T-On Location 15:00
 T-Started 16:02
 T-Open 17:32
 T-Pulled 19:32
 T-Out 21:55

Comments Loaded tools 7/1 13:30

Ruined Shale Packer
 Ruined Packer
 Extra Copies

Sub Total 0
 Total 1272.50
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Sub Total 1272.50
 Approved By _____ Our Representative Kevin Webster

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.