

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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OPERATOR

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

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-628-2593
 Well Name: WETTA FARMS # 1
 Location: S2 SW SE SW, SEC.15-T15S-R18W
 API: 15-051-26,985-00-00
 Pool: IN FIELD
 State: KANSAS

Field: LEIKER
 Country: USA



Scale 1:240 Imperial

Well Name: WETTA FARMS # 1
 Surface Location: S2 SW SE SW, SEC.15-T15S-R18W
 Bottom Location:
 API: 15-051-26,985-00-00
 License Number: 4787
 Spud Date: 5/28/2020 Time: 7:30 AM
 Region: ELLIS COUNTY
 Drilling Completed: 6/1/2020 Time: 6:08 PM
 Surface Coordinates: 330' FSL & 1340' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2050.00ft
 K.B. Elevation: 2060.00ft
 Logged Interval: 2900.00ft To: 3750.00ft
 Total Depth: 3750.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.3145761
 Latitude: 38.7413202
 N/S Co-ord: 330' FSL
 E/W Co-ord: 1340' 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: 5/28/2020 Time: 7:30 AM
 TD Date: 6/1/2020 Time: 6:08 PM

ELEVATIONS

K.B. Elevation: 2060.00ft
K.B. to Ground: 10.00ft

Ground Elevation: 2050.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF TWO DSTS.

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG.

DRILL STEM TESTING BY TRILOBITE TESTING, INC: ONE(1) CONVENTIONAL TEST AND ONE(1) STRADDLE TEST.

WETTA FARMS #1	JOSEPH #1	LOUIS # 1
W2 SW SE SW	SE NE NE NW	NW SE SW SW
SEC.15-15S-18W	SEC.22-15-18W	SEC.15-15-18W
KB 2060'	KB 2058'	KB 2057'

	LOG TOPS		
Anhydrite top	1214 +846	+ 845	+ 851
Anhydrite base	1248 +812	+ 810	+ 814
Topeka	3012 - 952	- 947	- 953
Heebner Sh.	3292-1232	-1228	-1238
Toronto	3311-1251	-1247	-1254
LKC	3340-1280	-1276	-1283
BKC	3568-1508	-1503	-1506
Arbuckle	3641-1581	-1564	-1586
RTD	3750-1690	-1625	-1693

SUMMARY OF DAILY ACTIVITY

05-28-20 Spud 7:30AM, set 8 5/8" surface casing to 222.41' w/ 140 sxs 60/40 pos 2%gel 3%CC, plug down 2:00PM, slope 1/4 degree, WOC, kick off with PDC bit at 10:00PM

05-29-20 925', drilling

05-30-20 2700' drilling, displaced 2870', bit trip to run conventional bit

05-31-20 3308', drilling, CFS 3332, short trip, drilling, CFS 3375', DST # 1 3348'-3375' "C" zone, slope survey 3/4 degree @ 3375'

06-01-20 3515', drilling, CFS 3540', CFS 3635', RTD 3750' @ 6:08PM, CCH, TOWB for logs, logging

06-02-20 3750', DST #2 straddle test 3390'-3415', decision to plug and abandon well



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc
 1310 Bison RD Hays, ks 67601+9696
 ATTN: Herb Deines

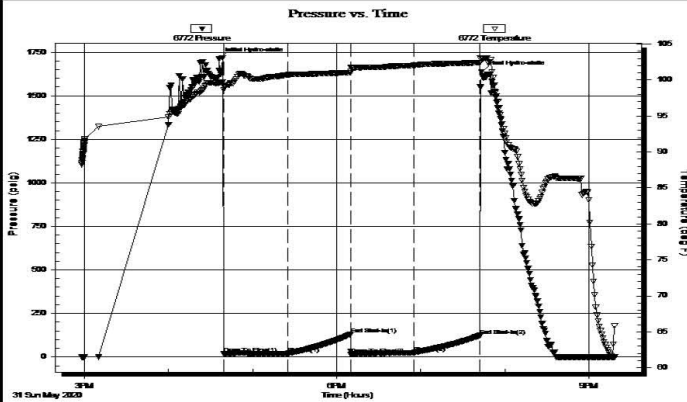
15-15-18
Wetta Farms #1
 Job Ticket: 65759 **DST#: 1**
 Test Start: 2020.05.31 @ 14:58:00

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:39:20
 Time Test Ended: 21:18:50
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Benny Mulligan
 Unit No: 66
 Interval: **3348.00 ft (KB) To 3375.00 ft (KB) (TVD)**
 Total Depth: 3375.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 2062.00 ft (KB)
 2051.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6772 Inside
 Press@RunDepth: 24.89 psig @ 3349.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.05.31 End Date: 2020.05.31 Last Calib.: 2020.05.31
 Start Time: 14:58:01 End Time: 21:18:50 Time On Btm: 2020.05.31 @ 16:36:10
 Time Off Btm: 2020.05.31 @ 19:43:20

TEST COMMENT: IF-45- built to 5 1/2"
 ISI-45- no blow back
 FF-45- built to 8"
 FSI-45- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.95	99.68	Initial Hydro-static
4	18.55	99.12	Open To Flow (1)
49	20.01	100.73	Shut-In(1)
94	130.54	101.06	End Shut-In(1)
95	16.03	101.71	Open To Flow (2)
139	24.89	102.03	Shut-In(2)
187	123.55	102.41	End Shut-In(2)
188	1637.07	103.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbt)
30.00	GOSM 5%G 2%O 93% M	0.42
0.00	GIP 150'	0.00

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

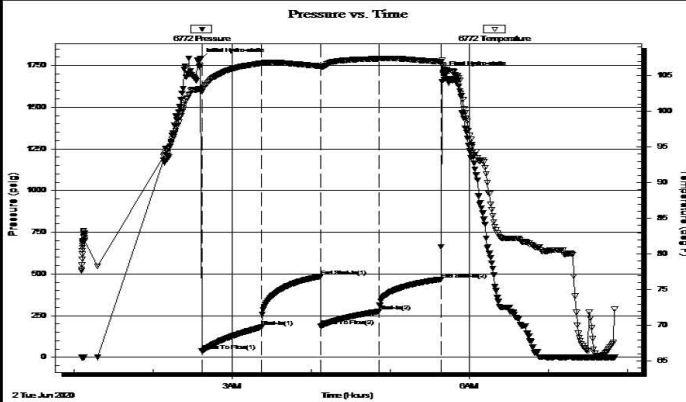
15-15s-18w Ellis,KS
Wetta Farms #1
 Job Ticket: 65760 **DST#: 2**
 Test Start: 2020.06.02 @ 01:06:00

GENERAL INFORMATION:

Formation: **LKC "E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:37:00
 Time Test Ended: 07:51:09
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Benny Mulligan
 Unit No: 66
 Interval: **3390.00 ft (KB) To 3415.00 ft (KB) (TVD)**
 Total Depth: 3750.00 ft (KB) (TVD)
 Reference Elevations: 2062.00 ft (KB)
 2051.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 6772 Inside
 Press@RunDepth: 275.71 psig @ 3391.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.06.02 End Date: 2020.06.02 Last Calib.: 2020.06.02
 Start Time: 01:06:01 End Time: 07:51:10 Time On Btm: 2020.06.02 @ 02:36:10
 Time Off Btm: 2020.06.02 @ 05:40:20

TEST COMMENT: IF-45- BOB 7 mns total build of 35"
 ISI-45- no blow back
 FF-45- BOB 25 mins total build of 14"
 FSI-45- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.18	103.16	Initial Hydro-static
1	38.96	102.79	Open To Flow (1)
47	180.98	106.74	Shut-In(1)
91	484.80	106.34	End Shut-In(1)
92	186.66	106.25	Open To Flow (2)
136	275.71	107.38	Shut-In(2)
183	467.30	106.99	End Shut-In(2)
185	1708.90	106.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	MW 80%W 20%M	4.63
240.00	MW 90%W 10%M	3.37

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 65760

Printed: 2020.06.02 @ 08:31:27

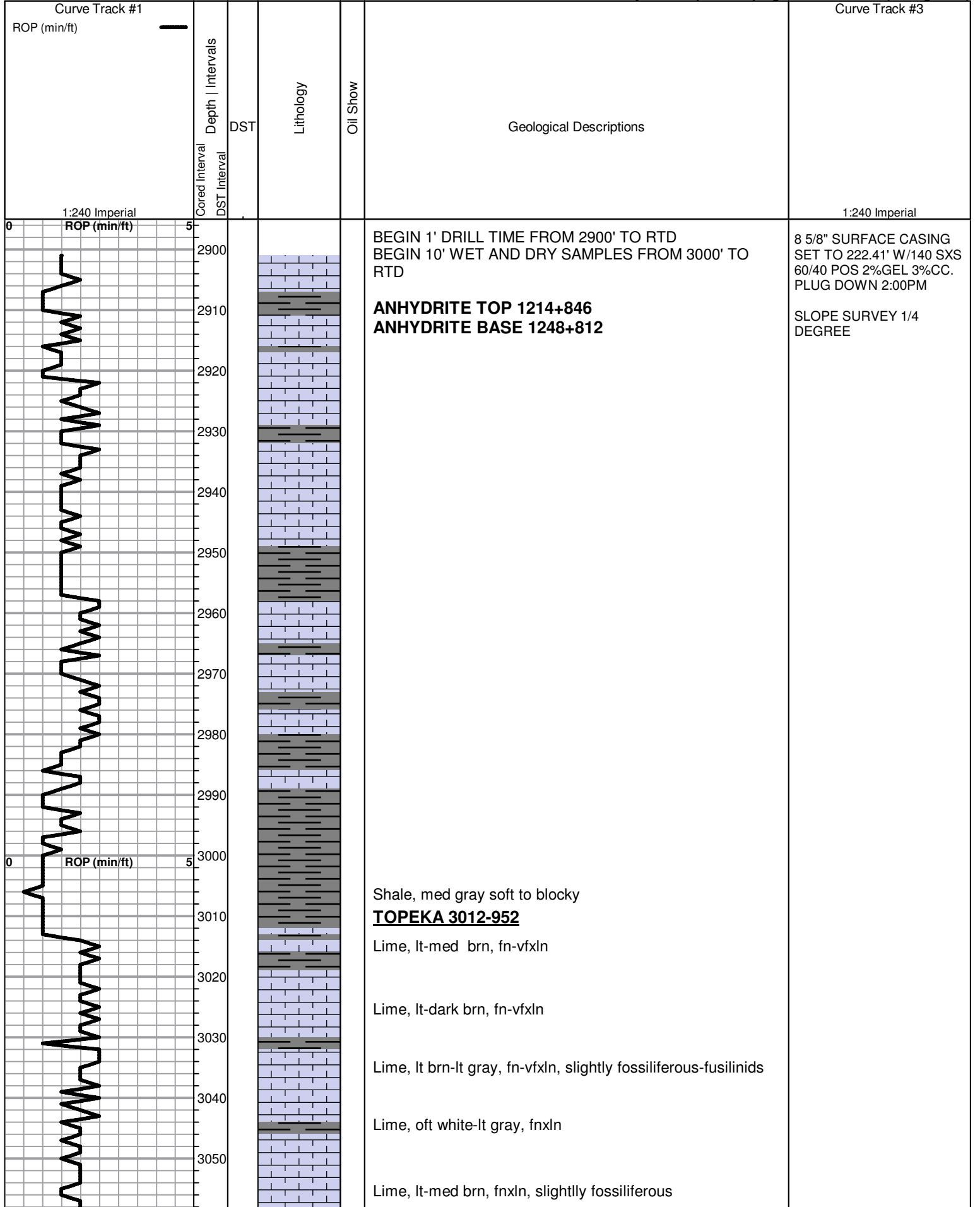
ROCK TYPES

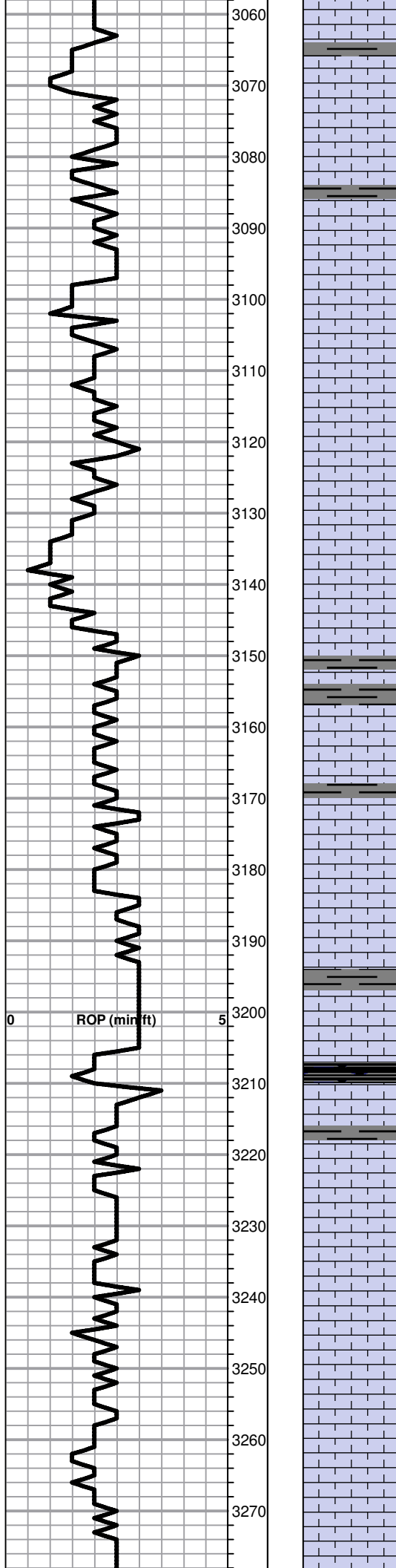
Clystgy	Lmst fw7>	shale, grn	Carbon Sh
Dolprim	Lscongl	shale, gry	shale, red

ACCESSORIES

MINERAL

- ▲ Chert, dark
- ▬ Varicolored chert
- △ Chert White





Lime, lt-med brn, fn-vfxln NS.

Lime, lt brn, fn-vfxln

Lime, lt brn, fnxln-granular, chalky matrix

Lime, lt-med brn, fnxln-granular, slight bedded chalk

Lime, crm-lt brn, fnxln, bedded chalk

Lime, lt-med brn, fnxln, bedded chalk

Lime, lt-med brn, fnxln-granular

Shale, black carbonaceous

Lime, lt-med brn, fn-vfxln

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

Lime,lt-med brn, fn-vfxln

Lime, lt-med brn, fn-vfxln

Lime, lt-med brn, fn-vfxln

Lime, lt brn, fn-vfxln, bedded chalk

Shale, black carbonaceous

Lime, crm-med brn, fn-vfxln, lt white chalk wash

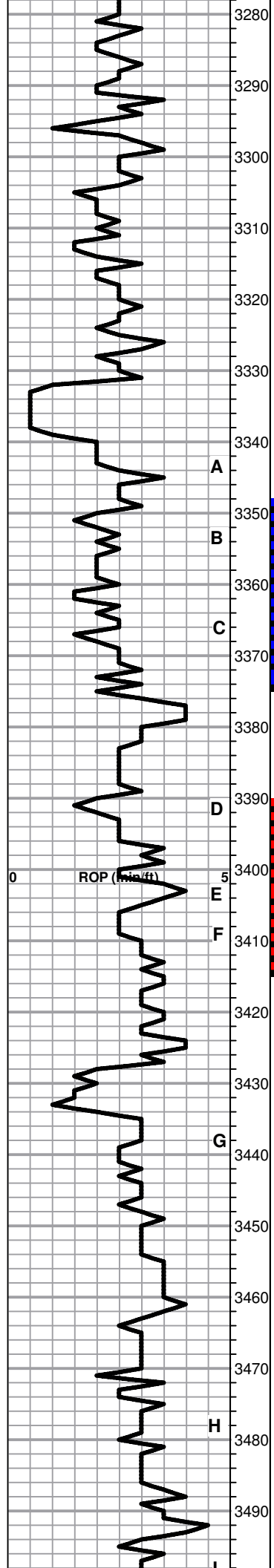
Lime, lt brn, fn-vfxln, bedded chalk in part

Lime, crm-lt brn, fn-vfxln, slightly fossiliferous, bed chalk

Lime, crm-lt brn, fn-micro xln, slightly fossiliferous

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

lime, crm-lt brn, fnxln-slightly granular



Lime, crm-lt brn, fnxln

HEEBNER SHALE 3292-1232

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

Shale, dove gray-lime green soft sticky mud

TORONTO 3311-1251

Lime, white, fn-vfxln

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

Shale, red-reddish brn, soft

LKC 3340-1280

Lime, crm-lt brn, fn-vfxln, lt gassy odor

A *

Lime, lt-med brn, fn-vfxln

B

Lime, crm-lt brn, fnxln, scattered vugs and oolites with lt spotty stain, very lt odor, NFO

C

Lime, crm-lt brn, fn-vfxln

Lime, crm-lt brn, fn-vfxln

D

Lime, crm-lt brn, scattered vugs and granular porosity, spotty stain, NFO, very lt odor, not well developed

D

Lime, lt brn, fn-vfxln, bedded chalk, lt white chalk wash
Shale, black carbonaceous
Lime, offwhite, vf-micro xln

E

Lime, crm, fn-vfxln, bedded chalk, NS, no odor

F

Lime, crm, fn-micro xln

2 chips oolitic with spotty lt stain, no odor or NFO

Lime, white-crm, fnxln, bedded chalk, scattered barren oolmoldic chips.

G

Lime, lt brn, fn-micro xln

Lime, offwhite, fn-vfxln, slight bedded chalk

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

Lime, lt-med brn, fn-micro xln

H

Lime, white-crm, fn-vfxln

Lime, white-crm, fn-vfxln, dead oil staining, NFO or odor in oolitic chips

I

CFS 3332', SHORT TRIP

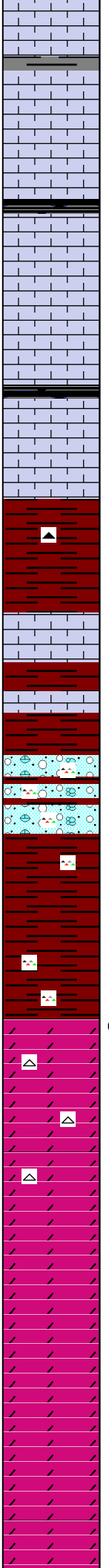
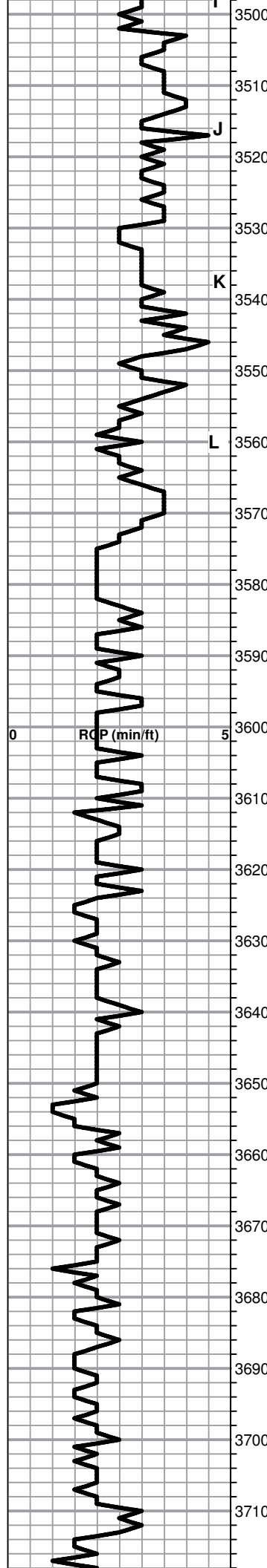
DST # 1 3348' to 3375'
SEE HEADER FOR TEST SUMMARY

CFS 3375'

SLOPE 3/4 DEGREE

DST # 2 STRADDLE TEST
3390'-3415' SEE HEADER FOR TEST SUMMARY

ROP (min/ft)



Lime, white-cream, mostly fine with hard bedded chalk, fine oolitic chips with spotty staining, NFO or odor

Lime, cream-lt brn, fine-micro xln

Lime, white-cream, fine-micro xln. hard bedded chalk with lt chalk wash

Lime, cream-lt brn, fine-micro xln

Lime, cream, fine-micro xln

Lime, cream-lt brn, fine-vfxln

BKC 3568-1508

Shale, red, soft sticky mud

Clastic mix of red stain lime, fine chert rubble and red shale

Shale, red, soft mud-soft blocky

Lime, lt brn-cream, fine-micro xln

Shale, dark reddish brn, soft blocky with red chert rubble

Shale, reddish brn, sandy, NS

Clastic mix of chert, shale and limestone rubble

Shale, red, soft sticky, dark red wash

ARBUCKLE 3641-1581

Dolomite, lt brown, fine to med xln, sucrosic, lt odor, NFO, spotty lt stain

Dolomite, ivory, granular, fine to cxln, lt sulfur odor

Dolomite, cream-lt brn-ivory, granular to fine xln

Dolomite, lt brn, fine xln-granular, traces of spotty dead oil stain, NFO or odor

Dolomite, cream-lt brn, fine xln-granular, traces of spotty dead oil stain, NFO or odor

Dolomite, white-ivory, fine xln-granular

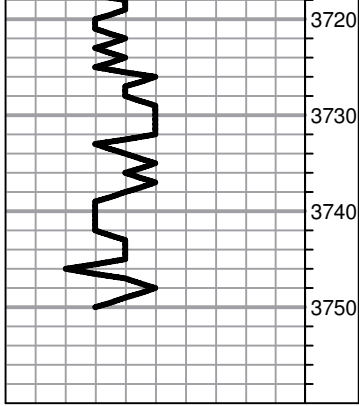
Dolomite, ivory-tan, fine xln-cxln granular

Dolomite, cream-tan, fine xln-granular

CFS 3540'

CFS 3635'

1st plug @ 3620' w/50 sxs
 2nd plug @ 1230' w/50 sxs
 3rd plug @ 650' w/100 sxs
 4th plug @ 250' w/50 sxs
 Rathole w/30 sxs
 Mousehole w/15 sxs
 Ordered 305 sxs 60/40pos
 4% gel, 1/4# floseal per sack. Job completed
 3:45pm 6/02/2020



Dolomite, crm-tan, fnxln-granular

Dolomite, ivory-crm, fnxln-granular

Dolomite, ivory-crm, fnxln-granular

RTD 3750-1690 LTD 3751-1691



HURRICANE SERVICES INC

Customer	TDI, INC	Lease & Well #	WETTA FARMS 1			Date	5/28/2020
Service District	MEDICINE LODGE KS	County & State	ELLIS CO KS	Legals S/T/R	15-15S-18W	Job #	
Job Type	SURFACE	<input type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> No
						Ticket #	ICT3574

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
912	MATTAL	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
526/521	MCGRAW	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
182/532	MARTINEZ	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations		
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			

Comments

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP070	60/40/2 Pozmix	sack	140.00	\$1,401.40
CP100	Calcium Chloride	lb	363.00	\$209.63
CP120	Cello-flake	lb	36.00	\$48.51
M015	Light Equipment Mileage	mi	25.00	\$38.50
M010	Heavy Equipment Mileage	mi	25.00	\$77.00
M025	Ton Mileage - Minimum	each	1.00	\$231.00
C010	Cement Pump Service	ea	1.00	\$577.50
	PPP DICOUNT			(\$750.00)

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$1,833.54
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Tax Rate:	
Unlikely	1 2 3 4 5 6 7 8 9 10	Extremely Likely	
		State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	Sale Tax:
			\$ -
		Total:	\$ 1,833.54
		HSI Representative:	<i>Mike Mattal</i>

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



HURRICANE SERVICES INC

Customer	TDI,INC		WETTA FARMS 1		Date	6/2/2020		
Service District	MEDICINE LODGE KS		County & State	ELLIS CO KS	Legals S/T/R	15-15S-18W		
Job Type	PLUG TO ABAND	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #		
Equipment #	Driver	Ticket #						ICT3599

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
912	MATTAL	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
526/521	MCGRAW	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
181/582	EJ MCGRAW	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations		
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
Comments							

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP055	H-Plug	sack	305.00	\$3,053.05
CP120	Cello-flake	lb	77.00	\$103.76
M015	Light Equipment Mileage	mi	25.00	\$38.50
M010	Heavy Equipment Mileage	mi	25.00	\$77.00
M020	Ton Mileage	tm	329.00	\$380.00
C011	Cement Pump Service	ea	1.00	\$847.00
	PPP DISCOUNT			(\$1,000.00)

Customer Section: On the following scale how would you rate Hurricane Services Inc.?				Net:	\$3,499.30
Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely				Total Taxable \$ - Tax Rate: State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	Sale Tax: \$ - Total: \$ 3,499.30
				HSI Representative: <i>Mike Mattal</i>	

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer:	TDI,INC	Well:	WETTA FARMS 1	Ticket:	ICT3599
City, State:	HAYS KS	County:	ELLIS CO KS	Date:	6/2/2020
Field Rep:	FRANK ROME	S-T-R:	15-15S-18W	Service:	PLUG TO ABAND

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	in	Blend:	H-PLUG	Blend:	
Hole Depth:	ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size:	in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.43 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	bbls	Total Slurry:	78.0 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	305 sx	Total Sacks:	#DIV/0! sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
11:00 AM			-	-	ON LOCATION/SAFTEY MEETING
				-	1ST PLUG AT 3700'
1:00 PM	4.0	250.0	20.0	20.0	PUMP 20 BBL WATER
1:05 PM	5.0	350.0	13.0	33.0	MIX 50 SKS H-PLUG
1:09 PM	5.0	300.0	5.0	38.0	PUMP 5 BBL WATER
1:11 PM	5.0	200.0	39.0	77.0	PUMP 39 BBL MUD
				77.0	2ND PLUG AT 1230"
2:18 PM	3.0	150.0	10.0	87.0	PUMP 10 BBL WATER
2:21 PM	5.0	250.0	13.0	100.0	MIX 50 SKS H-PLUG
2:25 PM	5.0	100.0	10.0	110.0	START DISPLACEMENT
				110.0	3RD PLUG AT 650:
2:47 PM	3.0	150.0	5.0	115.0	PUMP 5 BBL WATER
2:49 PM	5.0	200.0	26.0	141.0	MIX 100 SKS H-PLUG
2:55 PM	5.0	100.0	2.0	143.0	START DISPLACEMENT
				143.0	4TH PLUG AT 250"
3:08 PM	3.0	150.0	5.0	148.0	PUMP 5 BBL WATER
3:09 PM	5.0	150.0	13.0	161.0	MIX 50 SKS H-PLUG
3:13 PM	5.0	100.0	1.0	162.0	START DISPLACEMENT
				162.0	5TH PLUG AT 40"
3:23 PM	3.0	100.0	3.0	165.0	MIX 10 SKS H-PLUG
				165.0	CEMENT TO SURFACE
3:35 PM	3.0	100.0	8.0	173.0	PLUG RATHOLE WITH 30 SKS H-PLUG
3:40 PM	3.0	100.0	4.0	177.0	PLUG MOUSEHOLE WITH 15 SKS H-PLUG
					JOB COMPLETE/THANK YOU!
				-	MIKE MATTAL
				-	MIKE&E.J.
				-	

CREW		UNIT	SUMMARY		
Cementer:	MATTAL	912	Average Rate	Average Pressure	Total Fluid
Pump Operator:	MCGRAW	526/521	4.2 bpm	172 psi	177 bbls
Bulk #1:	EJ MCGRAW	181/582			
Bulk #2:					



DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays, KS 67601

ATTN: Herb Deines

Wetta Farms #1

15-15s-18w Ellis,KS

Start Date: 2020.05.31 @ 14:58:00

End Date: 2020.05.31 @ 21:18:50

Job Ticket #: 65759 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.06.02 @ 11:52:08

TDI Inc
15-15s-18w Ellis,KS
Wetta Farms #1
DST # 1
LKC "C"
2020.05.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

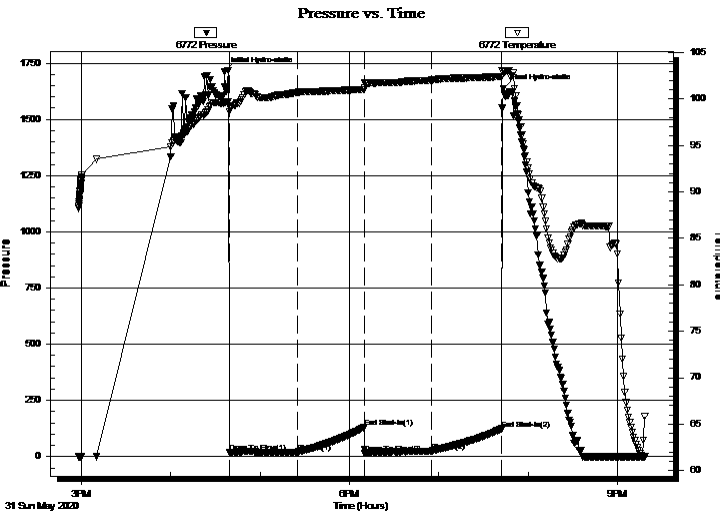
15-15s-18w Ellis,KS
Wetta Farms #1
Job Ticket: 65759 **DST#: 1**
Test Start: 2020.05.31 @ 14:58:00

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:39:20
Time Test Ended: 21:18:50
Interval: **3348.00 ft (KB) To 3375.00 ft (KB) (TVD)**
Total Depth: 3375.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Benny Mulligan
Unit No: 66
Reference Elevations: 2062.00 ft (KB)
2051.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6772 Inside
Press@RunDepth: 24.89 psig @ 3349.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.05.31 End Date: 2020.05.31 Last Calib.: 2020.05.31
Start Time: 14:58:01 End Time: 21:18:50 Time On Btm: 2020.05.31 @ 16:36:10
Time Off Btm: 2020.05.31 @ 19:43:20

TEST COMMENT: IF-45- built to 5 1/2"
ISI-45- no blow back
FF-45- built to 8"
FSI-45- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.95	99.68	Initial Hydro-static
4	18.55	99.12	Open To Flow (1)
49	20.01	100.73	Shut-In(1)
94	130.54	101.06	End Shut-In(1)
95	16.03	101.71	Open To Flow (2)
139	24.89	102.03	Shut-In(2)
187	123.55	102.41	End Shut-In(2)
188	1637.07	103.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOSM 5%G 2%O 93%M	0.42
0.00	GIP 150'	0.00

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

15-15s-18w Ellis,KS
Wetta Farms #1
Job Ticket: 65759 **DST#: 1**
Test Start: 2020.05.31 @ 14:58:00

Tool Information

Drill Pipe:	Length: 3340.00 ft	Diameter: 3.80 inches	Volume: 46.85 bbl	Tool Weight: 2500.00 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: 38000.00 lb
			<u>Total Volume: 46.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3348.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3323.00	
Shut In Tool	5.00			3328.00	
Hydraulic tool	5.00			3333.00	
gap sub	4.00			3337.00	
Safety Joint	2.00			3339.00	
Packer	5.00			3344.00	26.00 Bottom Of Top Packer
Packer	4.00			3348.00	
Stubb	1.00			3349.00	
Recorder	0.00	6772	Inside	3349.00	
Recorder	0.00	6769	Outside	3349.00	
Perforations	23.00			3372.00	
Bullnose	3.00			3375.00	27.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc **15-15s-18w Ellis,KS**
 1310 Bison Rd **Wetta Farms #1**
 Hays, KS 67601 Job Ticket: 65759 **DST#: 1**
 ATTN: Herb Deines Test Start: 2020.05.31 @ 14:58:00

Mud and Cushion Information

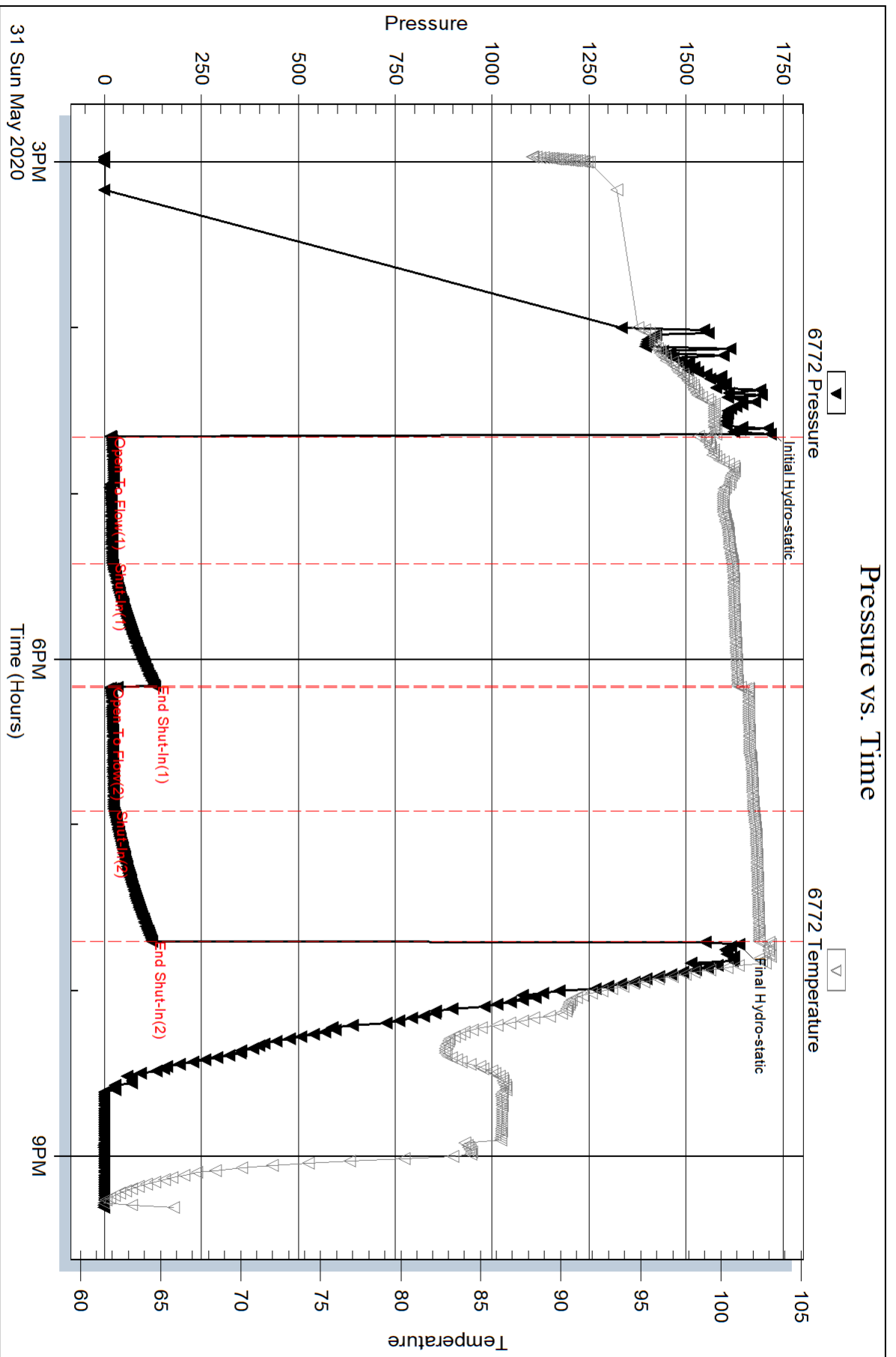
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GOSM 5%G 2%O 93%M	0.421
0.00	GIP 150'	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

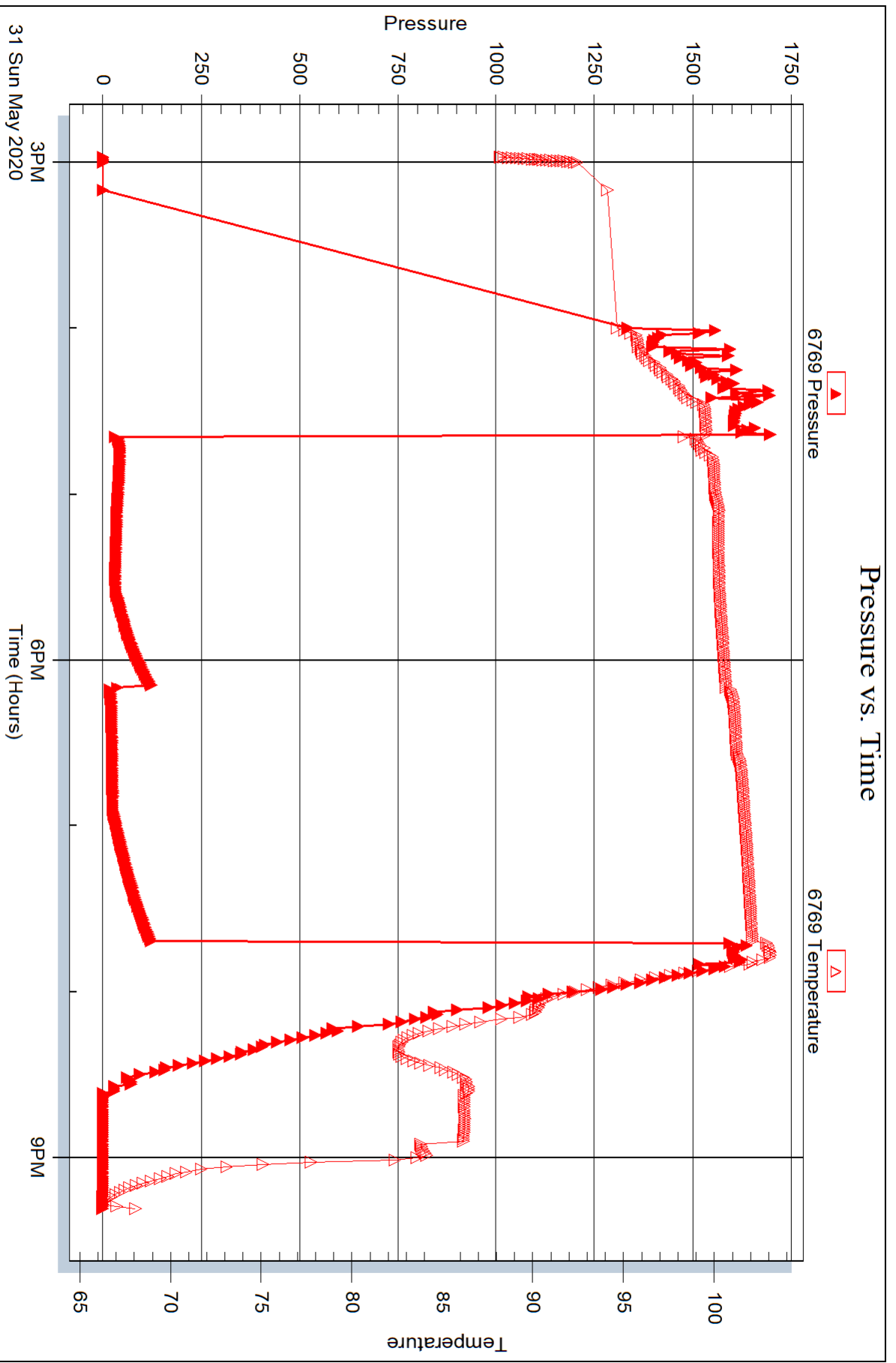


Serial #: 6769

Outside TDI Inc

Wetta Farms #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65759

Printed: 2020.06.02 @ 11:52:09



DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays, KS 67601

ATTN: Herb Deines

Wetta Farms #1

15-15s-18w Ellis,KS

Start Date: 2020.06.02 @ 01:06:00

End Date: 2020.06.02 @ 07:51:09

Job Ticket #: 65760 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.06.02 @ 11:51:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

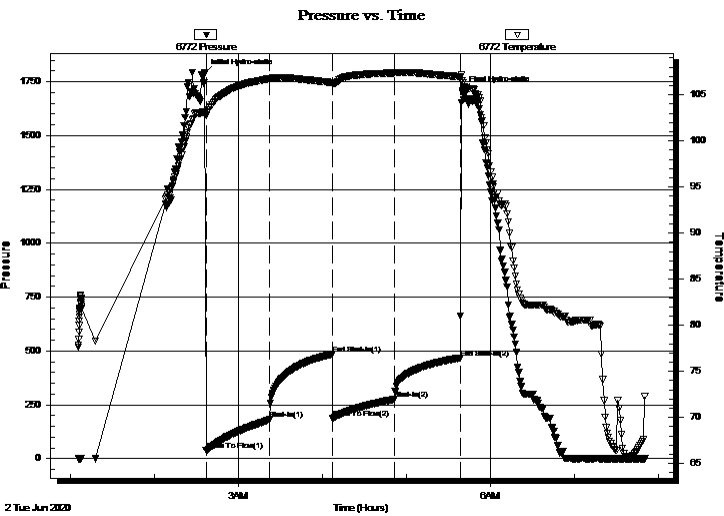
15-15s-18w Ellis,KS
Wetta Farms #1
Job Ticket: 65760 **DST#: 2**
Test Start: 2020.06.02 @ 01:06:00

GENERAL INFORMATION:

Formation: **LKC "E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:37:00
Time Test Ended: 07:51:09
Interval: **3390.00 ft (KB) To 3415.00 ft (KB) (TVD)**
Total Depth: 3750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Benny Mulligan
Unit No: 66
Reference Elevations: 2062.00 ft (KB)
2051.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6772 Inside
Press@RunDepth: 275.71 psig @ 3391.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.06.02 End Date: 2020.06.02 Last Calib.: 2020.06.02
Start Time: 01:06:01 End Time: 07:51:10 Time On Btm: 2020.06.02 @ 02:36:10
Time Off Btm: 2020.06.02 @ 05:40:20

TEST COMMENT: IF-45- BOB 7 mns total build of 35"
ISI-45- no blow back
FF-45- BOB 25 mins total build of 14"
FSI-45- no blow back



PRESSURE SUMMARY

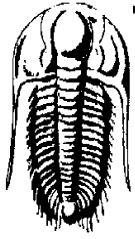
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.18	103.16	Initial Hydro-static
1	38.96	102.79	Open To Flow (1)
47	180.98	106.74	Shut-In(1)
91	484.80	106.34	End Shut-In(1)
92	186.66	106.25	Open To Flow (2)
136	275.71	107.38	Shut-In(2)
183	467.30	106.99	End Shut-In(2)
185	1708.90	106.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	MW 80%W 20%M	4.63
240.00	MW 90%W 10%M	3.37

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

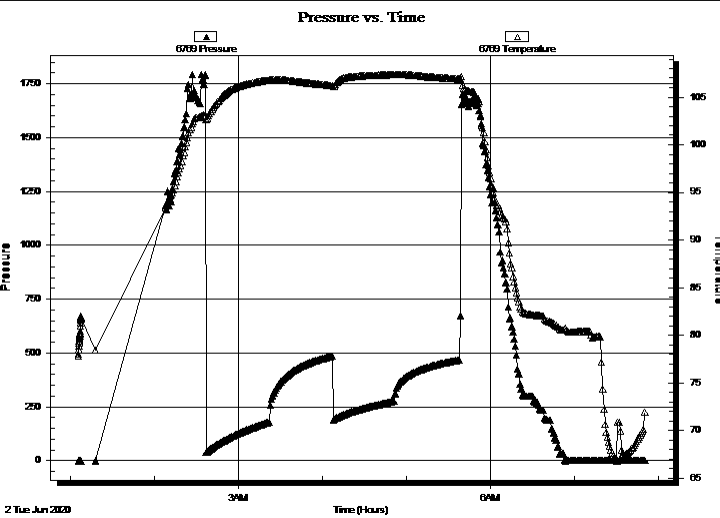
15-15s-18w Ellis,KS
Wetta Farms #1
Job Ticket: 65760 **DST#: 2**
Test Start: 2020.06.02 @ 01:06:00

GENERAL INFORMATION:

Formation: **LKC "E"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 02:37:00 Tester: Benny Mulligan
Time Test Ended: 07:51:09 Unit No: 66
Interval: 3390.00 ft (KB) To 3415.00 ft (KB) (TVD) Reference Elevations: 2062.00 ft (KB)
Total Depth: 3750.00 ft (KB) (TVD) 2051.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6769 Outside
Press@RunDepth: psig @ 3391.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.06.02 End Date: 2020.06.02 Last Calib.: 2020.06.02
Start Time: 01:06:01 End Time: 07:51:10 Time On Btm:
Time Off Btm:

TEST COMMENT: IF-45- BOB 7 mns total build of 35"
ISI-45- no blow back
FF-45- BOB 25 mins total build of 14"
FSI-45- no blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
330.00	MW 80%W 20%M	4.63
240.00	MW 90%W 10%M	3.37

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

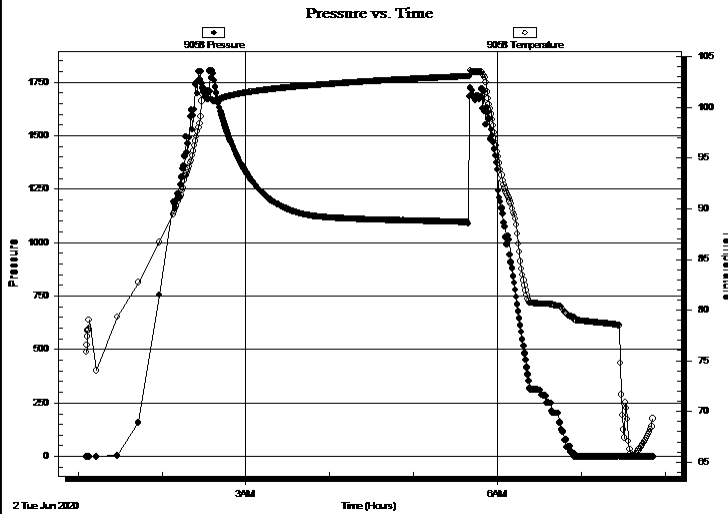
15-15s-18w Ellis,KS
Wetta Farms #1
 Job Ticket: 65760 **DST#: 2**
 Test Start: 2020.06.02 @ 01:06:00

GENERAL INFORMATION:

Formation: **LKC "E"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:37:00 Tester: Benny Mulligan
 Time Test Ended: 07:51:09 Unit No: 66
Interval: 3390.00 ft (KB) To 3415.00 ft (KB) (TVD) Reference Elevations: 2062.00 ft (KB)
 Total Depth: 3750.00 ft (KB) (TVD) 2051.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 9058 Below (Straddle)
 Press@RunDepth: psig @ 3427.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.06.02 End Date: 2020.06.02 Last Calib.: 2020.06.02
 Start Time: 01:06:05 End Time: 07:51:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-45- BOB 7 mns total build of 35"
 IS-45- no blow back
 FF-45- BOB 25 mins total build of 14"
 FS-45- no blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
330.00	MW 80%W 20%M	4.63
240.00	MW 90%W 10%M	3.37

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

15-15s-18w Ellis,KS
Wetta Farms #1
Job Ticket: 65760 **DST#: 2**
Test Start: 2020.06.02 @ 01:06:00

Tool Information

Drill Pipe:	Length: 3374.00 ft	Diameter: 3.80 inches	Volume: 47.33 bbl	Tool Weight: 2500.00 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: 42000.00 lb
			<u>Total Volume: 47.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3390.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	361.00 ft			
Tool Length:	381.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3371.00	
Shut In Tool	5.00			3376.00	
Hydraulic tool	5.00			3381.00	
Packer	5.00			3386.00	20.00 Bottom Of Top Packer
Packer	4.00			3390.00	
Stubb	1.00			3391.00	
Recorder	0.00	6772	Inside	3391.00	
Recorder	0.00	6769	Outside	3391.00	
Perforations	20.00			3411.00	
Blank Off Sub	1.00			3412.00	
Stubb	3.00			3415.00	361.00 Tool Interval
Packer	0.00			3415.00	
Stubb	2.00			3417.00	
Perforations	9.00			3426.00	
Change Over Sub	1.00			3427.00	
Recorder	0.00	9058	Below	3427.00	
Drill Pipe	318.00			3745.00	
Change Over Sub	1.00			3746.00	
Perforations	2.00			3748.00	
Bullnose	3.00			3751.00	1000380.00 Bottom Packers & Anchor

Total Tool Length: 381.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc **15-15s-18w Ellis,KS**
 1310 Bison Rd **Wetta Farms #1**
 Hays, KS 67601 Job Ticket: 65760 **DST#: 2**
 ATTN: Herb Deines Test Start: 2020.06.02 @ 01:06:00

Mud and Cushion Information

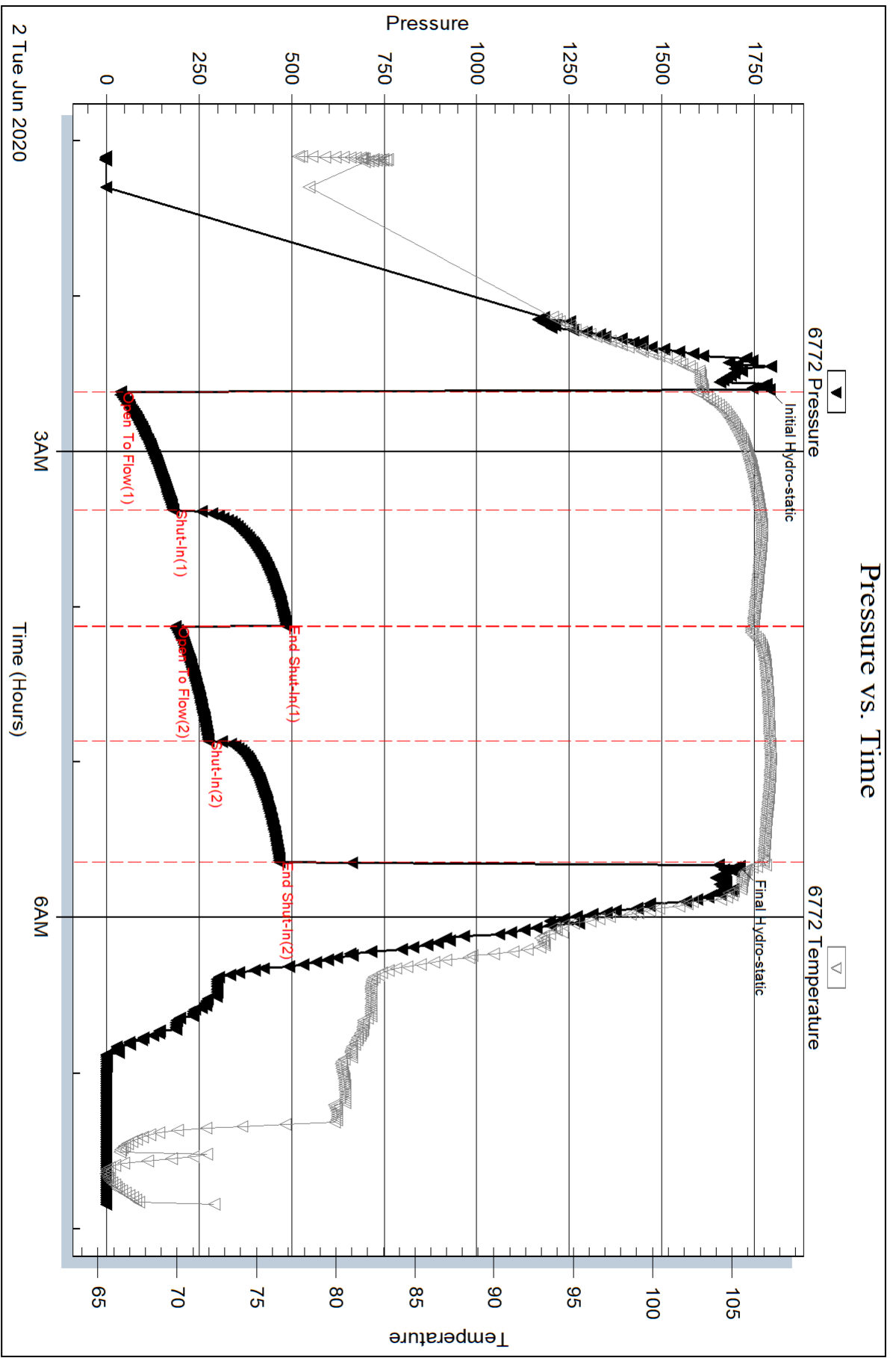
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	23000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 10000.00 ppm			
Filter Cake: 1.00 inches			

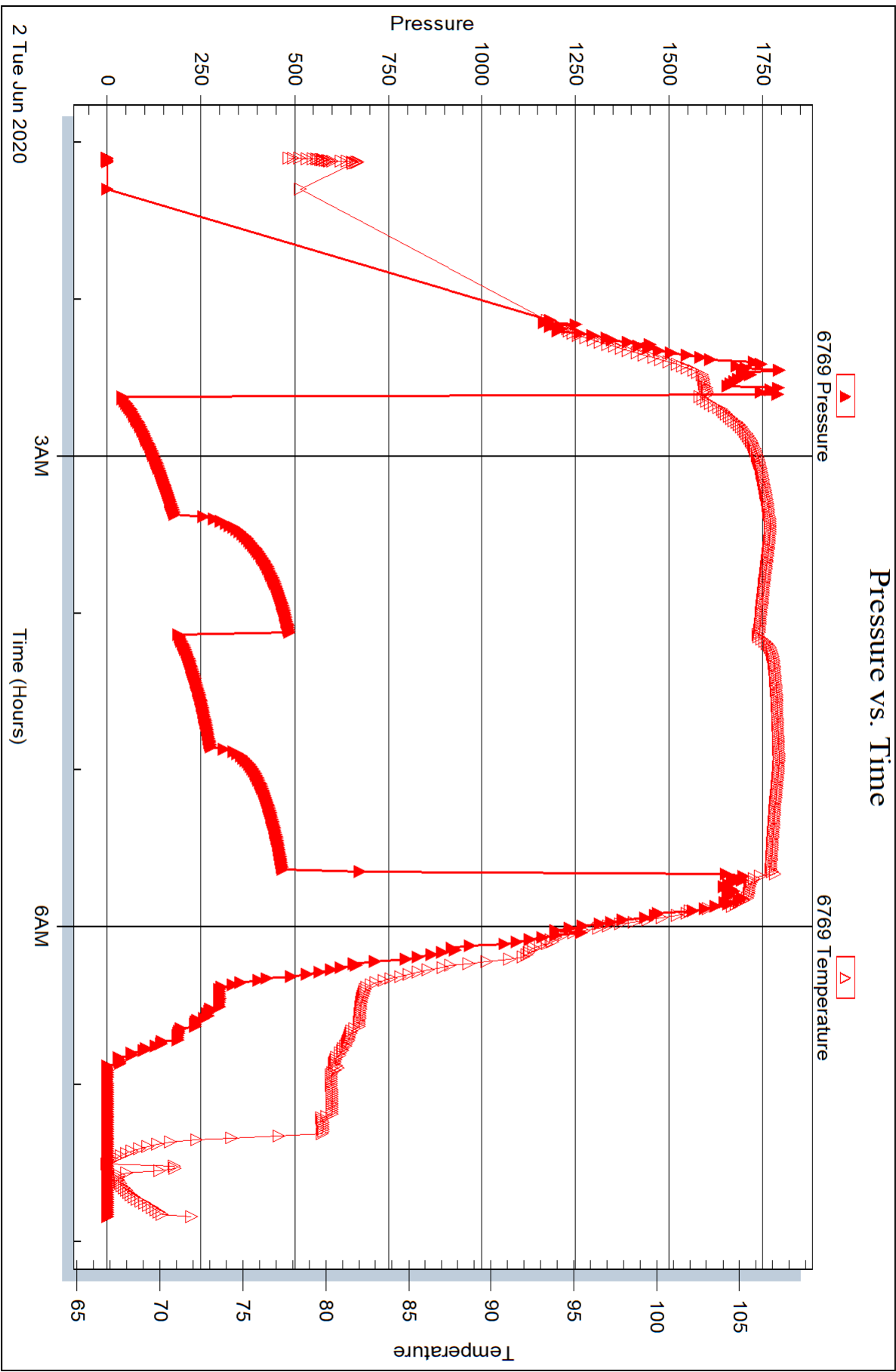
Recovery Information

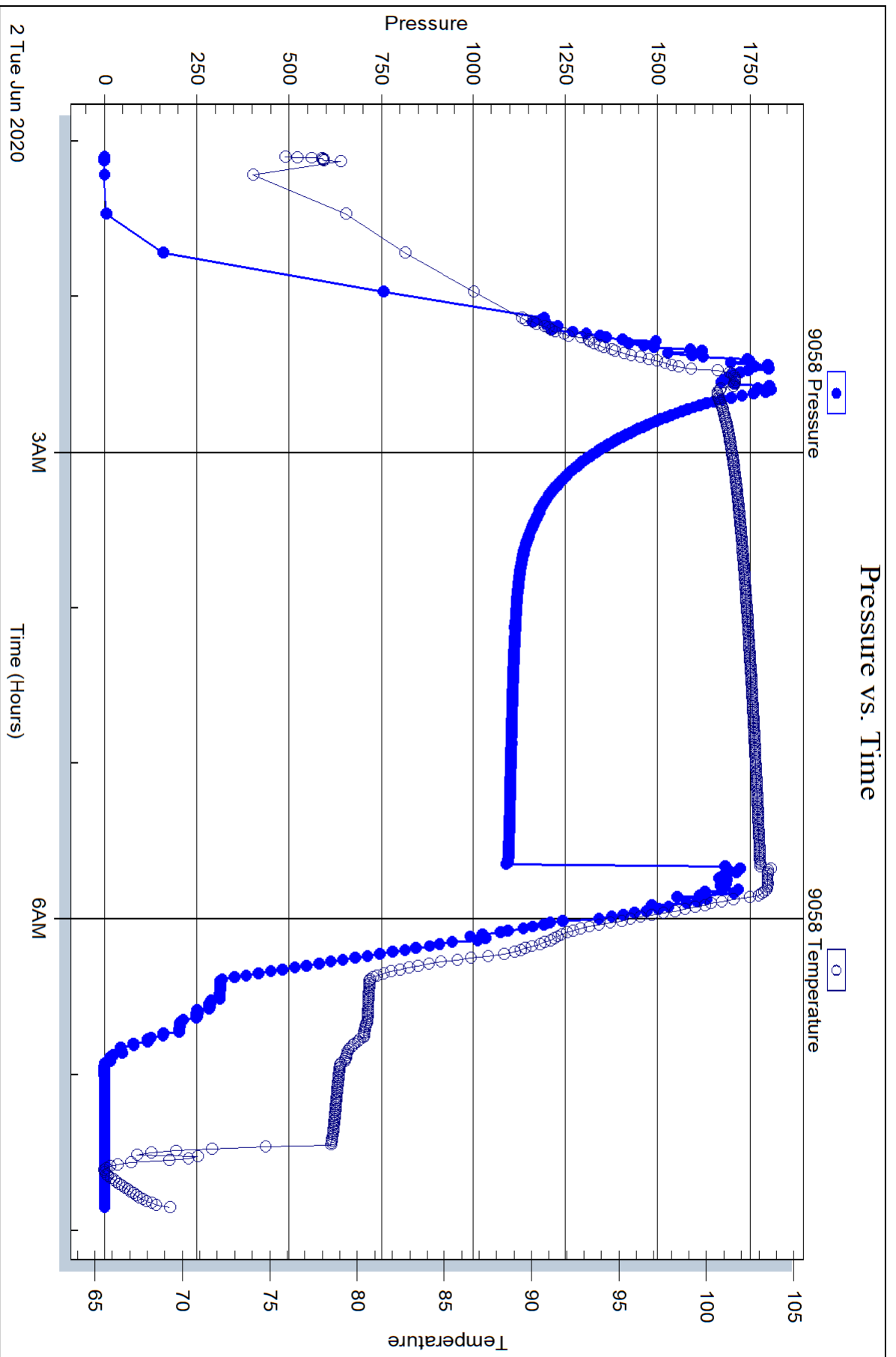
Recovery Table

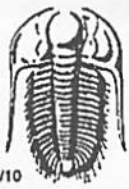
Length ft	Description	Volume bbl
330.00	MW 80%W 20%M	4.629
240.00	MW 90%W 10%M	3.367

Total Length: 570.00 ft Total Volume: 7.996 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:









TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65759

NO.

Well Name & No. Wetter Farms #1 Test No. 1 Date 5-31-2020
 Company TDI Inc Elevation 2062 KB 2051 GL
 Address 1310 Bison RD Hays, KS 67601 + 9696
 Co. Rep / Geo. Herb Atkins Rig Southwind Rig 8
 Location: Sec. 13 Twp 15 Rge. 18 Co. Ellis State KS

Interval Tested 3348-3375 Zone Tested LKC "C"
 Anchor Length 27' Drill Pipe Run 3340' Mud Wt. 9.1
 Top Packer Depth ~~3370~~ 3343 Drill Collars Run _____ Vis 50
 Bottom Packer Depth ~~3375~~ 3348 Wt. Pipe Run _____ WL 6.0
 Total Depth 3375 Chlorides 7,400 ppm System LCM 2#
 Blow Description IF - built to 5 1/2"
ISF - no blow back
FF - built to 8"
FST - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>GOSM</u>	<u>5</u>	<u>2</u>	<u>93</u>	
Rec	Feet of <u>GIP 150'</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 103⁺ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

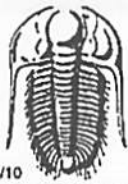
(A) Initial Hydrostatic 1710 Test 1200 T-On Location _____
 (B) First Initial Flow 18 Jars _____ T-Started 2:58pm Gm 3.03
 (C) First Final Flow 20 Safety Joint n/c T-Open 4:40
 (D) Initial Shut-In 130 Circ Sub _____ T-Pulled 7:40
 (E) Second Initial Flow 16 Hourly Standby _____ T-Out 9:10
 (F) Second Final Flow 24 Mileage 22 mi RT 22 Comments _____
 (G) Final Shut-In 123 Sampler _____
 (H) Final Hydrostatic 1637 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1222 MP/DST Disc't _____

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

Sub Total 0
 Total 1222

Approved By _____ Our Representative Benny Mulligan

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65760

NO.

Well Name & No. Wetta Farms #1 Test No. 2 Date 6-2-2020
 Company TDI Inc Elevation 2062 KB 2051 GL
 Address 1310 Bison RD Hays, KS 67601+9696
 Co. Rep / Geo. Herb Deines Rig Southwind Rig 8
 Location: Sec. 15 Twp 15 Rge. 18 Co. Ellis State KS

Interval Tested 3390-3415 Zone Tested LKC "E"
 Anchor Length 25' Anchor / 336' tail Drill Pipe Run 3374 Mud Wt. 9.1
 Top Packer Depth 3385 Drill Collars Run _____ Vis 50
 Bottom Packer Depth 3390 Wt. Pipe Run _____ WL 6.0
 Total Depth 3750 Chlorides 10,000 ppm System LCM 2#
 Blow Description IF - BOB 7mins total build of 35"
IST - no blow back
FF - BOB 25mins total build of 14"
FST - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>330</u>	<u>M-W.</u>		<u>80</u>	<u>20</u>	
<u>240</u>	<u>M-W.</u>		<u>90</u>	<u>10</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 570' BHT _____ Gravity _____ API RW 246 @ 72 °F Chlorides 23,000 ppm

(A) Initial Hydrostatic <u>1789</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>10:15 PM</u>
(B) First Initial Flow <u>38</u>	<input type="checkbox"/> Jars _____	T-Started <u>1:06 AM</u>
(C) First Final Flow <u>180</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>2:38</u>
(D) Initial Shut-In <u>484</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>5:38</u>
(E) Second Initial Flow <u>186</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>7:52</u>
(F) Second Final Flow <u>275</u>	<input checked="" type="checkbox"/> Mileage <u>22 mi RT</u> 22	Comments _____
(G) Final Shut-In <u>467</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1708</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<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>1822</u>
	Sub Total <u>1822</u>	MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan

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.