

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____

(e.g. xx.xxxxx)

(e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	TDI, Inc.
Well Name	Lynette 1
Doc ID	1315636

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
		2500 gals., 28%	

Summary of Changes

Lease Name and Number: Lynette 1

API/Permit #: 15-051-26823-00-00

Doc ID: 1315636

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	08/02/2016	08/30/2016
Date of First or Resumed Production or SWD or Enhr Producing Method Other	No	8/25/2016 Yes
Producing Method Other Detail		SWD
Save Link	../..kcc/detail/operatorEditDetail.cfm?docID=1312880	../..kcc/detail/operatorEditDetail.cfm?docID=1315636

OPERATOR

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

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-628-2593
 Well Name: LYNETTE # 1
 Location: E2 NE NW NE SEC.6-T12S-R18W
 API: 15-051-26,823-00-00
 Pool: WILDCAT
 State: KANSAS

Field: UNNAMED
 Country: USA



Scale 1:240 Imperial

Well Name: LYNETTE # 1
 Surface Location: E2 NE NW NE SEC.6-T12S-R18W
 Bottom Location:
 API: 15-051-26,823-00-00
 License Number: 4787
 Spud Date: 4/7/2016 Time: 10:45 AM
 Region: ELLIS COUNTY
 Drilling Completed: 4/13/2016 Time: 3:22 AM
 Surface Coordinates: 330' FNL & 1550' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2135.00ft
 K.B. Elevation: 2143.00ft
 Logged Interval: 3000.00ft To: 3800.00ft
 Total Depth: 3800.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.3578679
 Latitude: 39.044027
 N/S Co-ord: 330' FNL
 E/W Co-ord: 1550' 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 #: 3
 Rig Type: MUD ROTARY
 Spud Date: 4/7/2016 Time: 10:45 AM
 TD Date: 4/13/2016 Time: 3:22 AM

ELEVATIONS

K.B. Elevation: 2143.00ft
 K.B. to Ground: 8.00ft


Ground Elevation: 2135.00ft

NOTES

PRODUCTION CASING RAN TO COMPLETE WELL AS AN ARBUCKLE SALT WATER DISPOSAL WELL

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

DRILL STEM TESTING BY TRILOBITE TESTING, INC: THREE (3) CONVENTIONAL TESTS

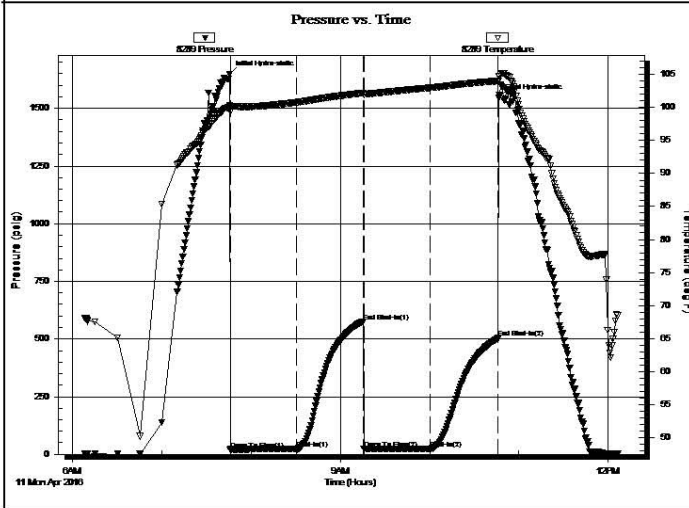
	DRILL STEM TEST REPORT		
	TDI Inc 1310 Bison Rd Hays KS 67601-9696 ATTN: Herb Deines	6 12s 18w Ellis Lynette #1 Job Ticket: 64770 DST#: 1 Test Start: 2016.04.11 @ 06:08:00	

GENERAL INFORMATION:

Formation: LKC " C "	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Jim Svaty
Time Tool Opened: 07:45:45	Unit No: 76
Time Test Ended: 12:07:00	
Interval: 3431.00 ft (KB) To 3470.00 ft (KB) (TVD)	Reference Elevations: 2145.00 ft (KB)
Total Depth: 3470.00 ft (KB) (TVD)	2137.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair	KB to GR/CF: 8.00 ft

Serial #: 8289	Outside		
Press@RunDepth: 24.21 psig @ 3435.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2016.04.11	End Date: 2016.04.11	Last Calib.: 2016.04.11	
Start Time: 06:08:02	End Time: 12:07:00	Time On Btm: 2016.04.11 @ 07:45:30	
		Time Off Btm: 2016.04.11 @ 10:46:30	

TEST COMMENT: 45-IFP- 1 3/4in. Blow in 11min. Died Back in 30min.
 45-ISIP- No Blow
 45-FFP- No Blow
 45-FSIP- No Blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.95	100.31	Initial Hydro-static
1	20.41	99.37	Open To Flow (1)
45	22.60	100.79	Shut-In(1)
90	576.01	102.21	End Shut-In(1)
91	22.46	101.97	Open To Flow (2)
135	24.21	103.01	Shut-In(2)
181	503.66	104.05	End Shut-In(2)
181	1544.43	104.74	Final Hydro-static

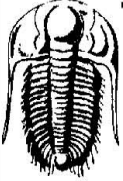
Recovery		
Length (ft)	Description	Volume (bbl)
15.00	OSM 100%	0.21

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

Trilobite Testing, Inc

Ref. No: 64770

Printed: 2016.04.11 @ 13:02:12

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	TDI Inc 1310 Bison Rd Hays KS 67601-9696 ATTN: Herb Deines	6 12s 18w Ellis Lynette #1 Job Ticket: 64771 DST#: 2 Test Start: 2016.04.11 @ 16:27:00

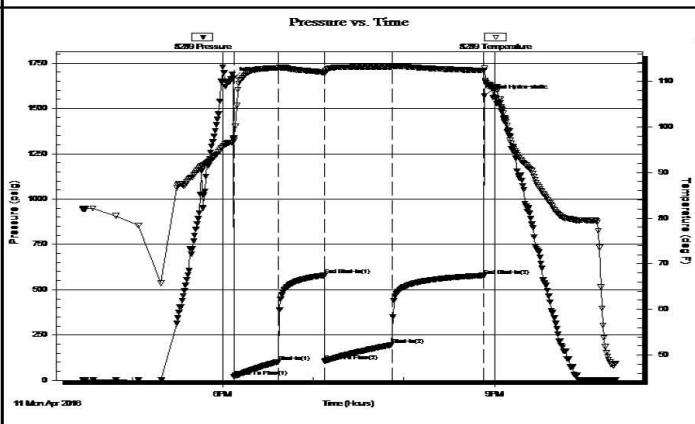
GENERAL INFORMATION:

Formation: LKC " D "	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Jim Svaty
Time Tool Opened: 18:07:15	Unit No: 76
Time Test Ended: 22:21:00	
Interval: 3468.00 ft (KB) To 3490.00 ft (KB) (TVD)	Reference Elevations: 2145.00 ft (KB)
Total Depth: 3490.00 ft (KB) (TVD)	2137.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 196.41 psig @ 3473.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2016.04.11	End Date: 2016.04.11
Start Time: 16:27:02	End Time: 22:20:45
	Last Calib.: 2016.04.11
	Time On Btm: 2016.04.11 @ 18:07:00
	Time Off Btm: 2016.04.11 @ 20:53:15

TEST COMMENT: 30-IFP- BOB in 13min.
 30-ISIP- No Blow
 45-FFP- BOB in 19min.
 60-FSP- No Blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1667.59	97.53	Initial Hydro-static
1	21.49	96.98	Open To Flow (1)
30	102.73	112.93	Shut-In(1)
61	579.34	111.91	End Shut-In(1)
61	106.27	111.67	Open To Flow (2)
105	196.41	113.15	Shut-In(2)
166	578.53	112.35	End Shut-In(2)
167	1568.41	112.81	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbt)
375.00	Water 100%	5.26

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

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 64771

Printed: 2016.04.12 @ 07:21:04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

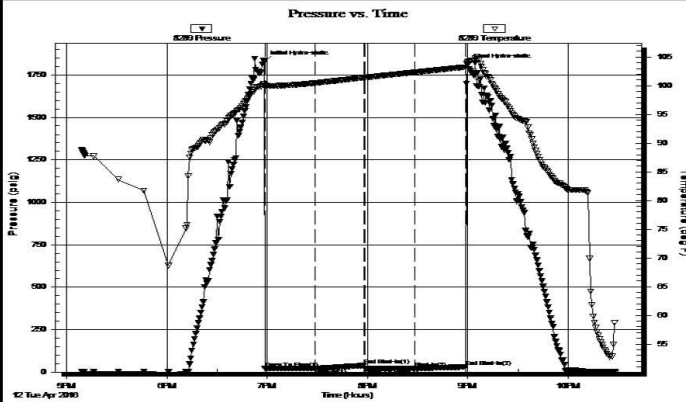
6 12s 18w Ellis
Lynette #1
 Job Ticket: 64772 **DST#: 3**
 Test Start: 2016.04.12 @ 17:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:58:30
 Time Test Ended: 22:28:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Interval: **3654.00 ft (KB) To 3720.00 ft (KB) (TVD)**
 Total Depth: 3720.00 ft (KB) (TVD)
 Reference Elevations: 2145.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft
 2137.00 ft (CF)

Serial #: 8289 Outside
 Press@RunDepth: 21.86 psig @ 3660.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.04.12 End Date: 2016.04.12 Last Calib.: 2016.04.12
 Start Time: 17:09:02 End Time: 22:28:15 Time On Btm: 2016.04.12 @ 18:58:15
 Time Off Btm: 2016.04.12 @ 20:59:45

TEST COMMENT: 30-IFP- 1/4in. Blow Died Back in 19min.
 30-ISIP- No Blow
 30-FFP- No Blow
 30-FSIP- No Blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.16	100.37	Initial Hydro-static
1	22.03	99.76	Open To Flow (1)
31	20.56	100.47	Shut-In(1)
60	38.84	101.43	End Shut-In(1)
61	21.72	101.44	Open To Flow(2)
91	21.86	102.34	Shut-In(2)
121	30.51	103.24	End Shut-In(2)
122	1807.03	104.16	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.06

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

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 64772

Printed: 2016.04.13 @ 07:27:20

LYNETTE # 1
E2 NE NW NE
SEC.6-12S-18W
2135'GL 2143'KB

DESMARTEAU #1
NE SW SE SW
SEC.31-11-18W
KB 2124'


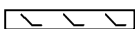




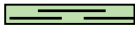


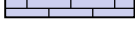
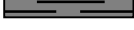

PFEIFER # 1
S2 SE SE
SEC.31-11-18W
KB 2095'

<u>FORMATION</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1470 +673	+ 666	+ 686
B-Anhydrite	1505 +638	+ 632	+ 647
Topeka	3150-1007	-1012	-1003
Heebner Sh.	3375-1232	-1237	-1229
Toronto	3398-1255	-1258	-1251
LKC	3420-1277	-1279	-1273
BKC	3651-1508	-1512	-1507
Rework Arbuckle	3704-1561		
Arbuckle	3740-1597	-1560	-1561
RTD	3800-1657	-1651	-1581

SUMMARY OF DAILY ACTIVITY

- 4-07-16 Spud 10:45 AM, set 8 5/8" surface casing to 211' w/150 sxs
Common 2%Gel 3%CC, slope 3/4 degree, plug down 4:30PM
- 4-08-16 675', drill plug 12:30 AM
- 4-09-16 2340', drilling
- 4-10-16 3045', drilling, displaced 3032' to 3040', CFS 3413', short trip
- 4-11-16 3470', drilling, CFS 3470', DST #1 3431' to 3470' "A"- "C" LKC, TIWB,
CFS 3490', DST # 2 3468'-3490' "D" LKC
- 4-12-16 3590', drilling, CFS 3717', CFS 3720' TOWB, DST # 3 3654' to 3720'
Arbuckle, TIWB
- 4-13-16 3800', drilling, RTD 3800' @3:22AM, CCH, TOWB, logs, TIWB, LDDP,
run 5 1/2" production casing for SWD, slope survey @3800' 1 degree

ROCK TYPES

 Clystgy	 Dol Lime	 Lscongl	 Carbon Sh
 Dolprim	 Lmst fw<7	 shale, grn	 shale, red
 Dolsec	 Lmst fw>7	 shale, gry	 Ss

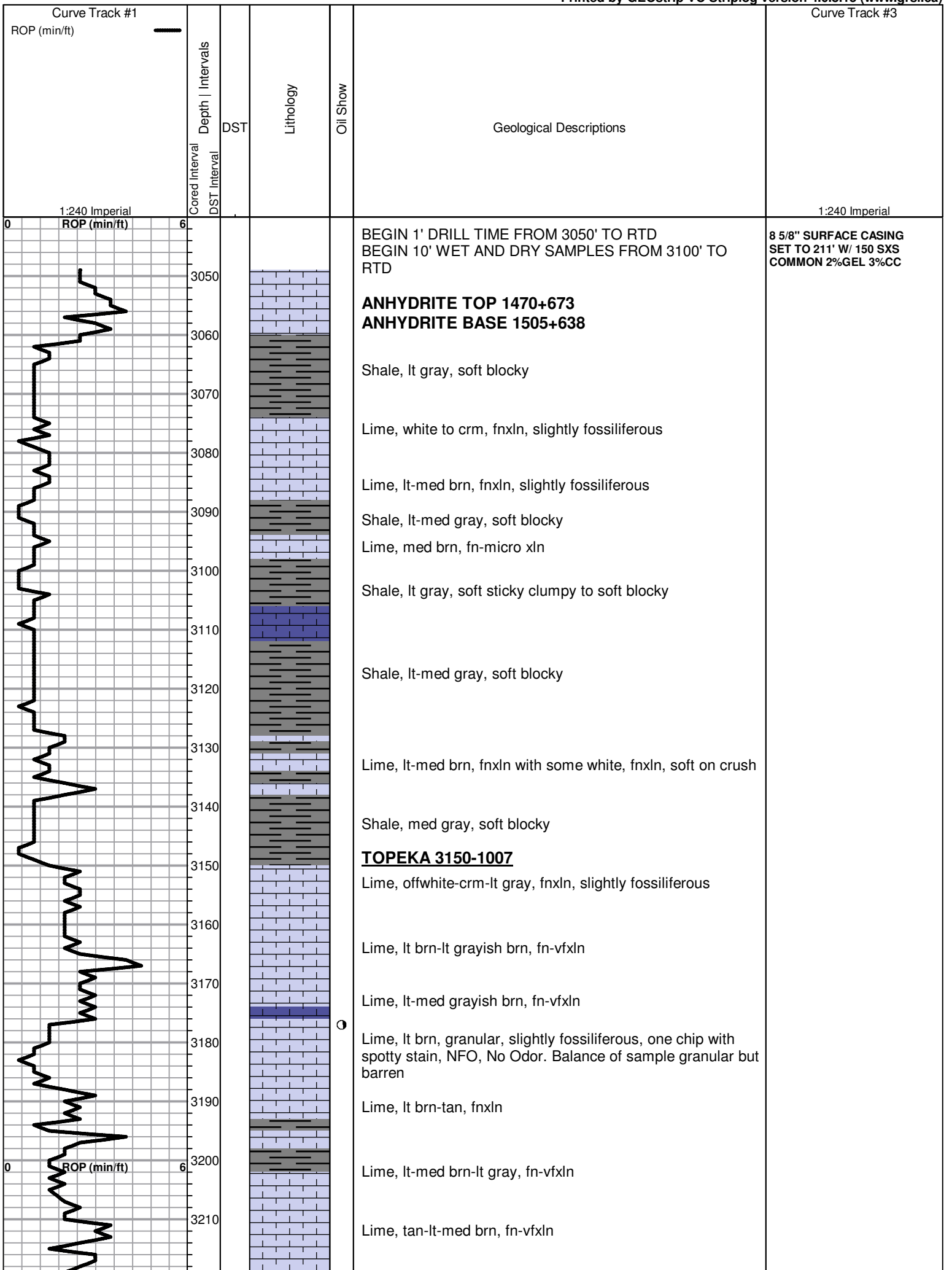
ACCESSORIES

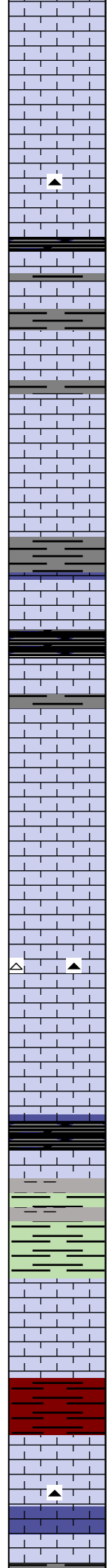
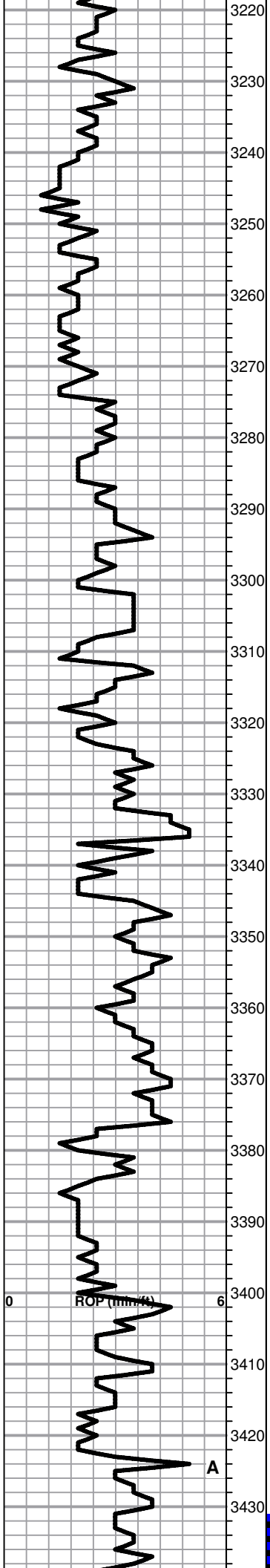
MINERAL

- ▲ Chert, dark
- △ Chert White

FOSSIL

- ⊕ Oolite





Lime, lt-med brn, fn-vfxln

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

Lime, lt-med brn, fn-vfxln
Chert, gray, fossiliferous in part

Shale, black carbonaceous, blocky

Lime, crm, fn-micro xln

Lime, crm, fn-micro xln, lithographic

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

Lime, crm-lt brn-lt gray near shale contact, fn-micro xln, thin fossil beds well cemented

Shale, med gray, firm blocky

Lime, tan-lt brn, fn-vfxln

Shale, black carbonaceous, fissile, blocky

Lime, lt gray, fn-micro xln

Lime, crm, fnxln-granular, slight chalk content

Lime, lt brn, fn-vfxln

○ Lime, white with white chalk wash, few chips granular with spotty staining with interxln porosity, NFO, No Odor

Lime,lt-med brn, fn-vfxln

Lime, lt-med brn, fnxln-slightly granular in part

Lime, lt brn, fn-vfxln

HEEBNER SHALE 3375-1232
Shale, black carbonaceous, fissile, blocky
Lime, lt brn, fn-micro xln

Shale, lt gray, soft slivers-lime green, soft mud

TORONTO 3398-1255
Lime, crm-tan, fn-vfxln, slight bedded chalk

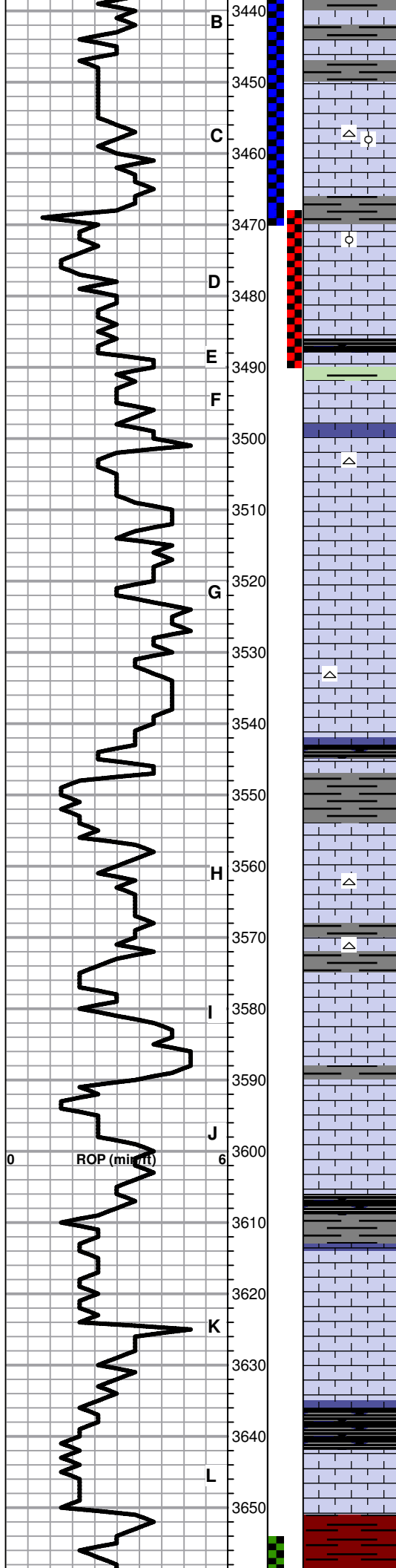
Lime, crm-lt gray, fn-vfxln

Shale, red soft with red wash

LKC 3420-1277
Lime, crm-lt brn, fn-micro xln

Lime, lt-med brn, fn-micro xln, thin, cemented fusulinid beds

CFS 3413' AND SHORT TRIP
PULLED 25 STANDS



Lime,lt-med brn, fn-micro xln

Lime, lt brn, fnxln, slightly oolitic in part with fine pinpoint vugular porosity, spotty stain, few specks of free oil and lt odor

Lime, white-crm, fnxln with sticky chalk clumps in part, oolitic in part with scattered lt stain, NFO, F-G odor, poorly developed interoolitic porosity with fine pinpoint vuggy porosity in part

Shale, black carbonaceous, blocky, fissile

Lime, crm, fnxln-granular, fine oolitic with fossil fragments, fine spotty stain in poorly developed zone

Lime, crm, fnxln-granular with coarse grains in part, NS

Lime, crm-lt brn, fn-micro xln

Lime, crm-lt brn, fn-micro xln

Lime, crm-lt brn, fn-micro xln

Lime, crm-lt brn-lt gray, fn-micro xln
Shale, black carbonaceous

D Lime, crm-lt brn, fnxln, 1 chip with flaky gilsonite

Lime, med brn, fn-micro xln

O Lime, crm, fn-vfxln, poorly developed, fine oolitic zone with spotty staining in fine pinpoint vuggy porosity, NFO or odor

Lime, offwhite-crm-lt brn, fn-micro xln, NS, No Odor

Lime, crm-offwhite, fn-vfxln

Shale, gray-black carbonaceous, blocky

O Lime, crm-lt brn, fnxln with thin oolitic, poorly developed bed, spotty dark staining, NFO, lt odor

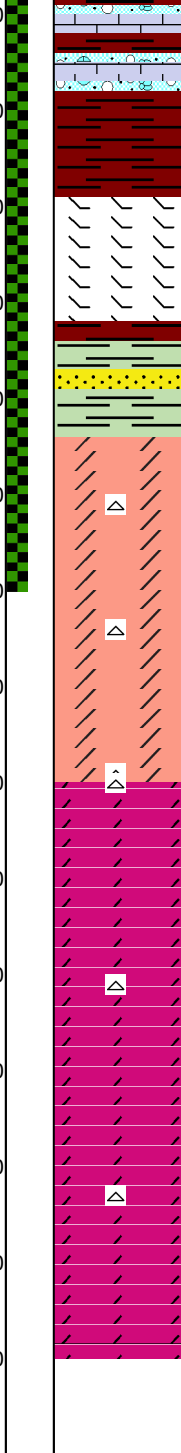
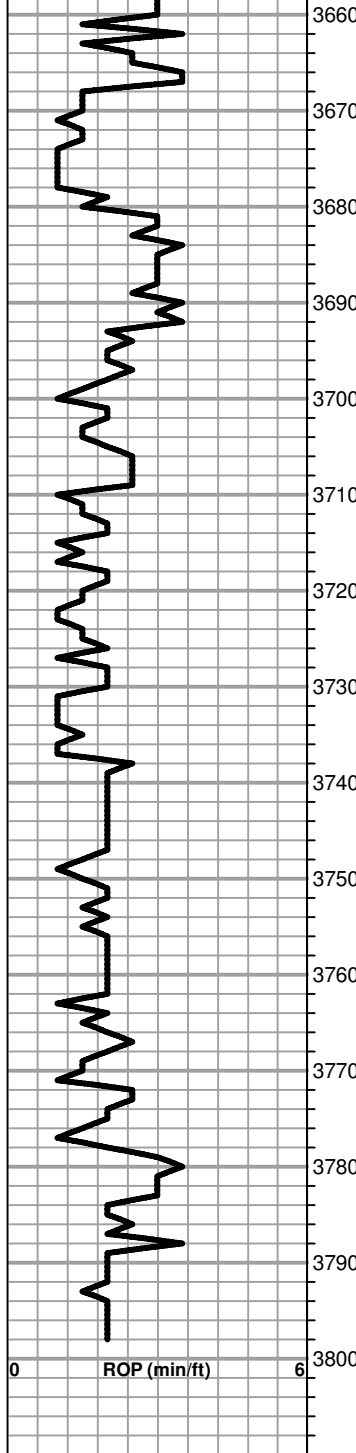
Lime, crm, fn-micro xln

Shale, black carbonaceous, blocky with black chert chips

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

BKC 3651-1508

Shale, red, soft blocky



Lime, lt-med brn, fn-vfxln, some clastic lime mix in part

Lime, crm-brn, fnxln-granular with red shale staining

Shale, red, soft blocky

Lime, white with red shale staining, hard granular, slightly dolomitic

Shale, lime green, soft sticky, weathered simpson shale

REWORKED ARBUCKLE 3704-1561

Dolomite, clastic mix with lt-dark fnxln-granular chips, scattered cherts and quartz grains. Few chips with bleeding show of free oil as chip warmed up, very lt odor not typical of Arbuckle oil

Dolomite, mix of lt-dark color, fnxln-granular

Dolomite, mix as above

ARBUCKLE 3740-1597

Dolomite, lt brn, fnxln-granular, gilsonitic, flaky, NFO or odor, lt chalky wash

Dolomite, crm-lt brn, fnxln-granular, scattered flaky gilsonite

Dolomite, lt-med brn, fnxln-granular

Dolomite, crm-lt brn, fnxln-granular, fine inter xln porosity

Dolomite, crm-lt brn, fnxln-granular, fine grainied with interxln porosity

RTD 3800-1657 LTD 3798-1655

DST # 3 3654-3720 SEE HEADER FOR TEST SUMMARY

REWORKED SECTION APPEARED TO CONSIST OF CLASTIC DOLOMITE WITH NO SHALE CONTENT

GRANULAR DOLOMITE ALL FINE GRAINED WITH FINE INTERXLN POROSITY

JOB LOG

SWIFT Services, Inc.

DATE 4-14-16 PAGE NO. 1

CUSTOMER T. D. I. WELL NO. #1 LEASE Lynette JOB TYPE 2-Stage Long String TICKET NO. 28802

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1500							On loc.
	1540							Start in hole with 5 1/2" 14" csg. Cen. #3, 5, 6, 8, 10, 12, 14, 53 Basket #4, 54, 71 D.V. #54 1469' Shoe 3794' Insert 3749' TD = 3798' Jag Bottom
	1650							Drop Ball
	1700							Circulate & Rotate Csg.
	1815		12					Pump 500 gal Mud Flush
		5.5	20					20 ^{ss} KCL Flush
			36					Mix 150 sks EA-2 Cement
	1835							Finish mixing wash out Pump & Line
		6						Displ. Shut off Plug
	1900		91.5					800/1500 Plug Down 1500psi holding Release Float held
								Drop Opening Plug
			20					Open D.V. Tool Plug R.H. & Mat. 30 ^{ss} 20 ^{ss} KCL Flush
								1200 Open D.V. Tool Pump 20 ^{ss} KCL Flush
	19:17	5						Mix 195 sks SMD Cement
			107					Finish mixing Release Closing Plug
								Displ.
	1955		36					1300 Plug Down 1300psi holding Release D.V. closed
								Circulated 50 sks Cnt. to pit
								Wash & Rask up truck
	2015							Job Complete

[Signature]
Rogers, Blaine, Tom H., John J.



DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601-9696

ATTN: Herb Deines

Lynette #1

6 12s 18w Ellis,KS

Start Date: 2016.04.11 @ 06:08:00

End Date: 2016.04.11 @ 12:07:00

Job Ticket #: 64770 DST #: 1

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

Printed: 2016.04.13 @ 08:15:42

TDI Inc
6 12s 18w Ellis,KS
Lynette #1
DST # 1
LKC " C "
2016.04.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

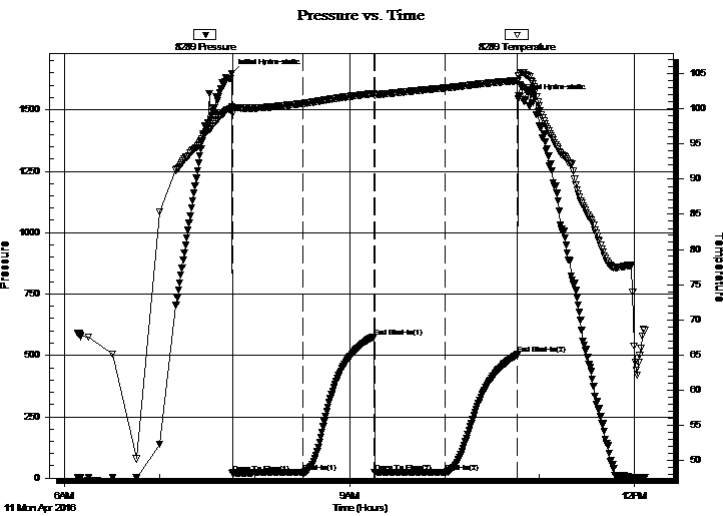
6 12s 18w Ellis,KS
Lynette #1
Job Ticket: 64770 **DST#: 1**
Test Start: 2016.04.11 @ 06:08:00

GENERAL INFORMATION:

Formation: **LKC " C "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:45:45
Time Test Ended: 12:07:00
Interval: **3431.00 ft (KB) To 3470.00 ft (KB) (TVD)**
Total Depth: 3470.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2145.00 ft (KB)
2137.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 76

Serial #: 8289 Outside
Press@RunDepth: 24.21 psig @ 3435.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.04.11 End Date: 2016.04.11 Last Calib.: 2016.04.11
Start Time: 06:08:02 End Time: 12:07:00 Time On Btm: 2016.04.11 @ 07:45:30
Time Off Btm: 2016.04.11 @ 10:46:30

TEST COMMENT: 45-IFP- 1 3/4". Blow in 11 min. Died Back in 30 min.
45-ISIP- No Blow
45-FFP- No Blow
45-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.95	100.31	Initial Hydro-static
1	20.41	99.37	Open To Flow (1)
45	22.60	100.79	Shut-In(1)
90	576.01	102.21	End Shut-In(1)
91	22.46	101.97	Open To Flow (2)
135	24.21	103.01	Shut-In(2)
181	503.66	104.05	End Shut-In(2)
181	1544.43	104.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM 100%	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

6 12s 18w Ellis,KS
Lynette #1
Job Ticket: 64770 **DST#: 1**
Test Start: 2016.04.11 @ 06:08:00

Tool Information

Drill Pipe:	Length: 3421.00 ft	Diameter: 3.80 inches	Volume: 47.99 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	45000.00 lb
			<u>Total Volume: 47.99 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3431.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3411.00	
Shut In Tool	5.00			3416.00	
Hydraulic tool	5.00			3421.00	
Packer	5.00			3426.00	21.00 Bottom Of Top Packer
Packer	5.00			3431.00	
Stubb	1.00			3432.00	
Perforations	2.00			3434.00	
Change Over Sub	1.00			3435.00	
Recorder	0.00	8789	Inside	3435.00	
Recorder	0.00	8289	Outside	3435.00	
Blank Spacing	31.00			3466.00	
Change Over Sub	1.00			3467.00	
Bullnose	3.00			3470.00	39.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

6 12s 18w Ellis,KS
Lynette #1
Job Ticket: 64770 **DST#: 1**
Test Start: 2016.04.11 @ 06:08:00

Mud and Cushion Information

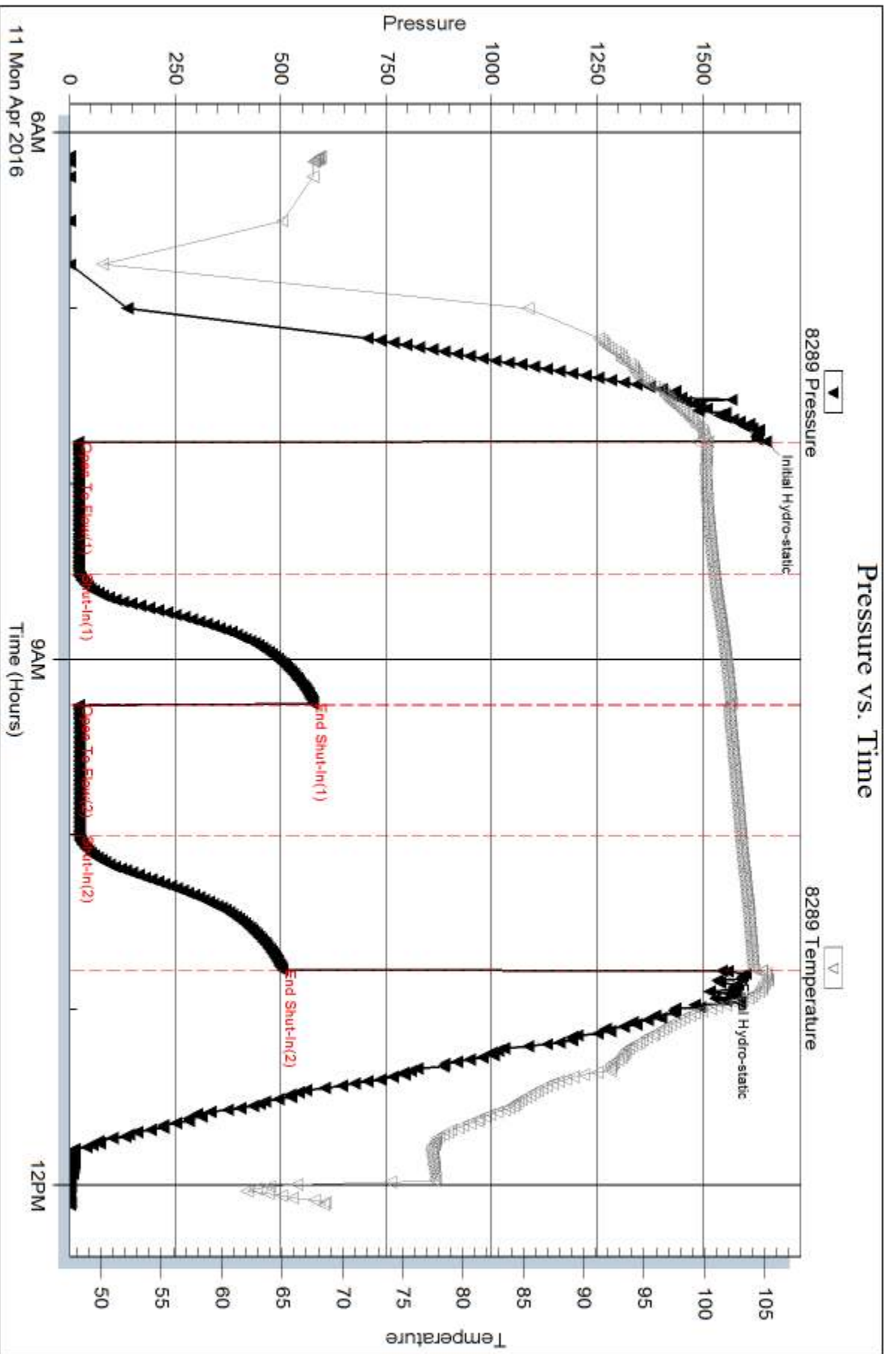
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 2.00 inches			

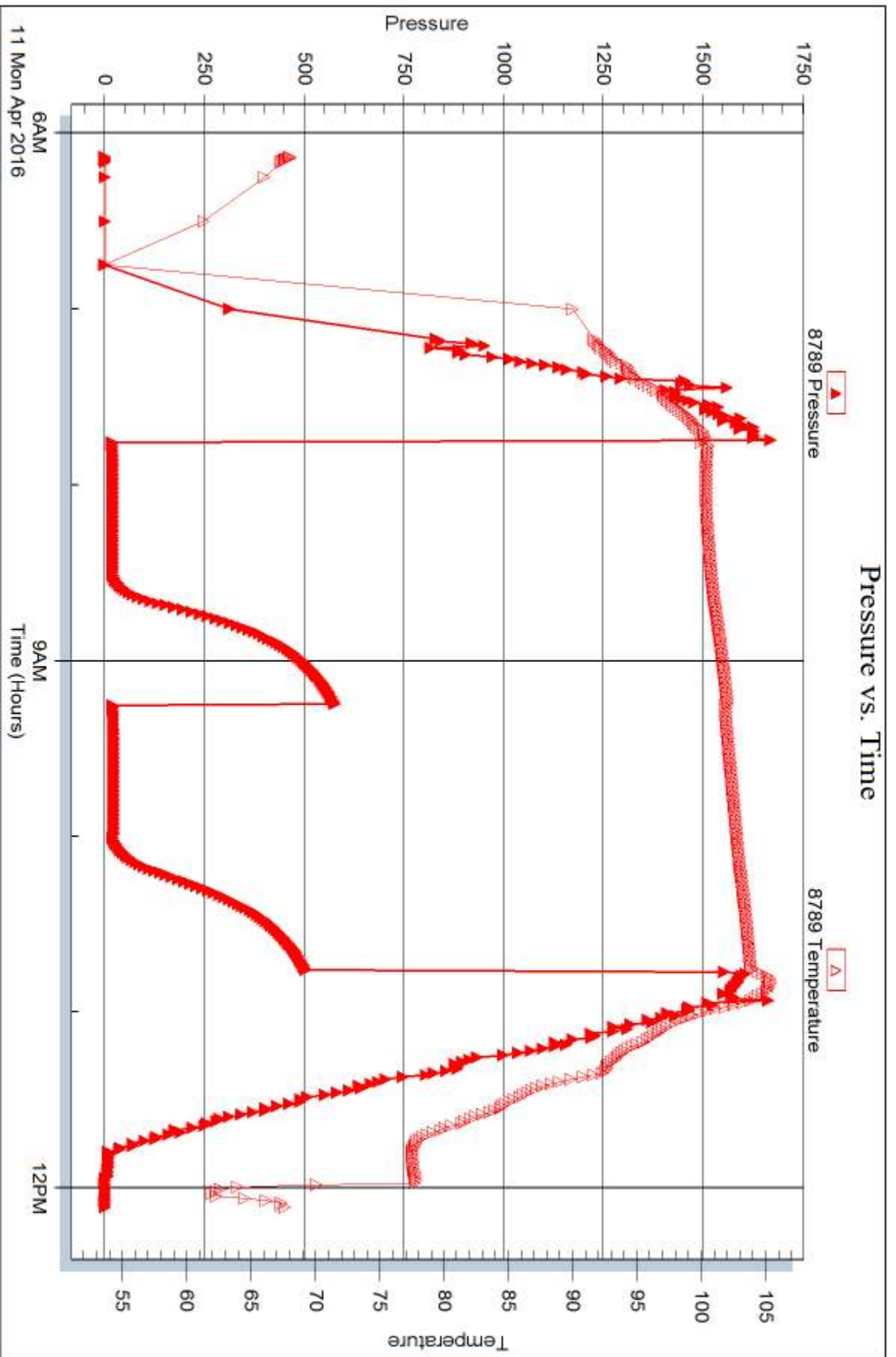
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM 100%	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601-9696

ATTN: Herb Deines

Lynette #1

6 12s 18w Ellis,KS

Start Date: 2016.04.11 @ 16:27:00

End Date: 2016.04.11 @ 22:21:00

Job Ticket #: 64771 DST #: 2

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

Printed: 2016.04.13 @ 08:15:07

TDI Inc
6 12s 18w Ellis,KS
Lynette #1
DST # 2
LKC " D "
2016.04.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

6 12s 18w Ellis,KS
Lynette #1
Job Ticket: 64771 **DST#: 2**
Test Start: 2016.04.11 @ 16:27:00

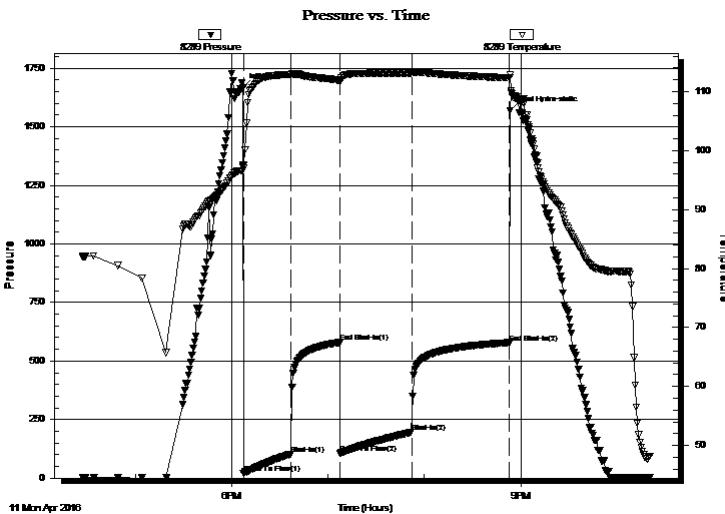
GENERAL INFORMATION:

Formation: **LKC " D "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:07:15
Time Test Ended: 22:21:00
Interval: **3468.00 ft (KB) To 3490.00 ft (KB) (TVD)**
Total Depth: 3490.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 76
Reference Elevations: 2145.00 ft (KB)
2137.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8289 Outside
Press@RunDepth: 196.41 psig @ 3473.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.04.11 End Date: 2016.04.11 Last Calib.: 2016.04.11
Start Time: 16:27:02 End Time: 22:20:45 Time On Btm: 2016.04.11 @ 18:07:00
Time Off Btm: 2016.04.11 @ 20:53:15

TEST COMMENT: 30-IFP- BOB in 13 min.
30-ISIP- No Blow
45-FFP- BOB in 19 min.
60-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1667.59	97.53	Initial Hydro-static
1	21.49	96.98	Open To Flow (1)
30	102.73	112.93	Shut-In(1)
61	579.34	111.91	End Shut-In(1)
61	106.27	111.67	Open To Flow (2)
105	196.41	113.15	Shut-In(2)
166	578.53	112.35	End Shut-In(2)
167	1568.41	112.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
375.00	Water 100%	5.26

* 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 Deines

6 12s 18w Ellis,KS
Lynette #1
Job Ticket: 64771 **DST#: 2**
Test Start: 2016.04.11 @ 16:27:00

Tool Information

Drill Pipe:	Length: 3452.00 ft	Diameter: 3.80 inches	Volume: 48.42 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	46000.00 lb
			<u>Total Volume: 48.42 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3468.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3448.00	
Shut In Tool	5.00			3453.00	
Hydraulic tool	5.00			3458.00	
Packer	5.00			3463.00	21.00 Bottom Of Top Packer
Packer	5.00			3468.00	
Stubb	1.00			3469.00	
Perforations	4.00			3473.00	
Recorder	0.00	8789	Inside	3473.00	
Recorder	0.00	8289	Outside	3473.00	
Blank Spacing	14.00			3487.00	
Bullnose	3.00			3490.00	22.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

6 12s 18w Ellis,KS
Lynette #1
Job Ticket: 64771 **DST#: 2**
Test Start: 2016.04.11 @ 16:27:00

Mud and Cushion Information

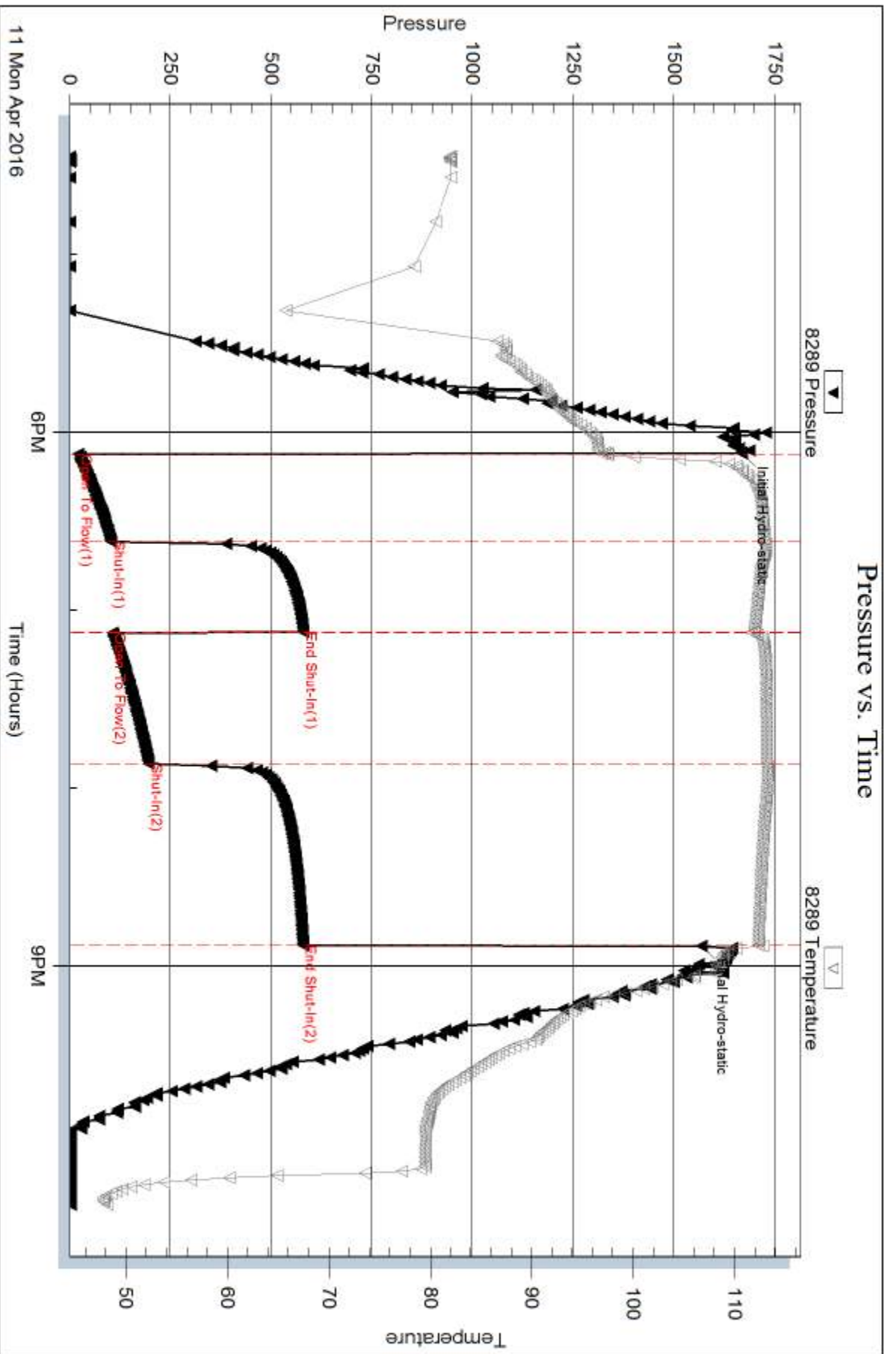
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 110000 ppm	
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
375.00	Water 100%	5.260

Total Length: 375.00 ft Total Volume: 5.260 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .096 @ 54



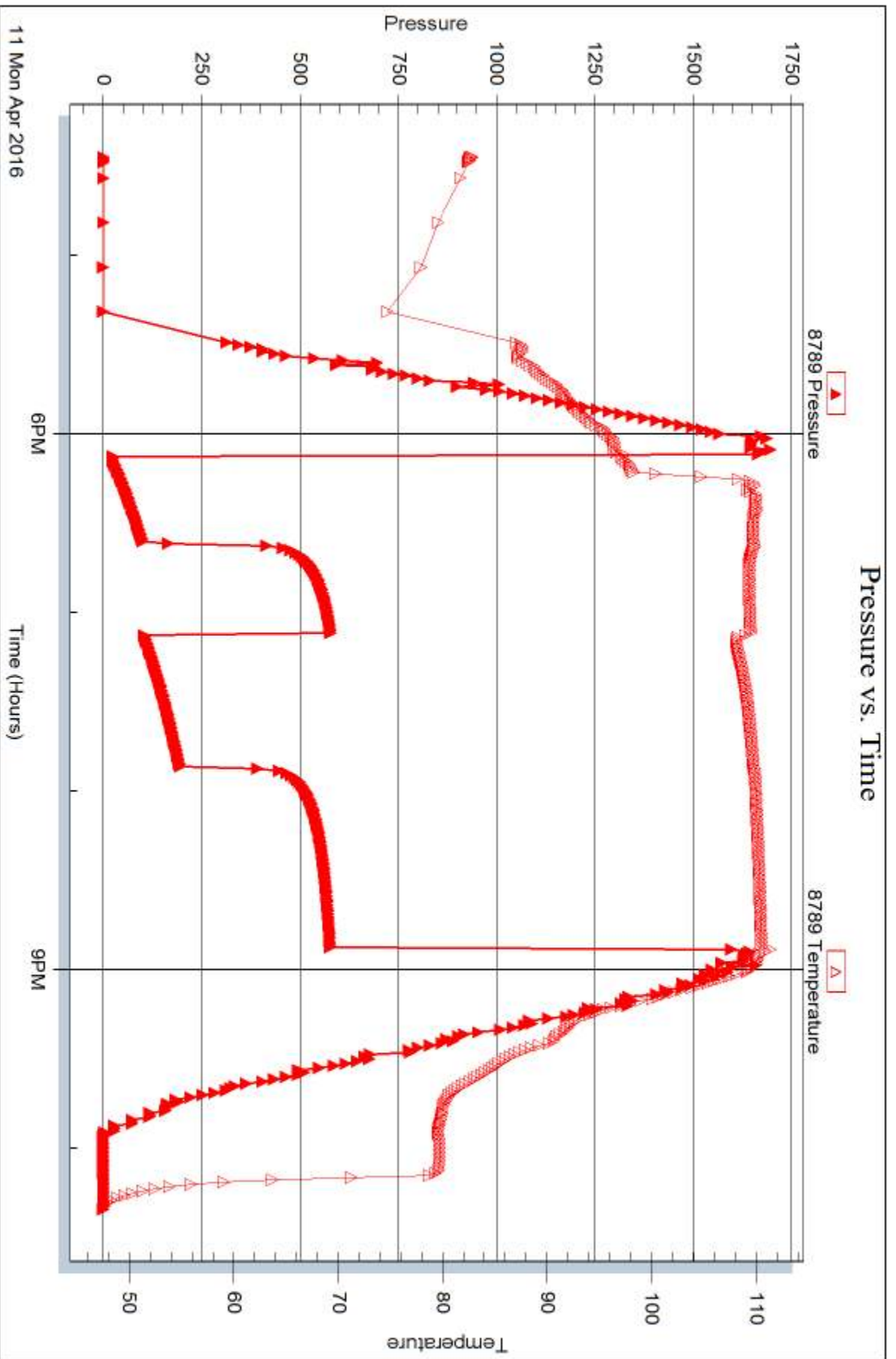
Serial #: 8789

Inside

TDI Inc

Lynette #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64771

Printed: 2016.04.13 @ 08:15:09



DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601-9696

ATTN: Herb Deines

Lynette #1

6 12s 18w Ellis,KS

Start Date: 2016.04.12 @ 17:09:00

End Date: 2016.04.12 @ 22:28:00

Job Ticket #: 64772 DST #: 3

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

Printed: 2016.04.13 @ 08:12:26

TDI Inc
6 12s 18w Ellis,KS
Lynette #1
DST # 3
Arbuckle
2016.04.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

6 12s 18w Ellis,KS
Lynette #1
Job Ticket: 64772 **DST#: 3**
Test Start: 2016.04.12 @ 17:09:00

Tool Information

Drill Pipe:	Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	46000.00 lb
			<u>Total Volume: 51.10 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3654.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	66.00 ft				
Tool Length:	87.00 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			3634.00	
Shut In Tool	5.00			3639.00	
Hydraulic tool	5.00			3644.00	
Packer	5.00			3649.00	21.00 Bottom Of Top Packer
Packer	5.00			3654.00	
Stubb	1.00			3655.00	
Perforations	4.00			3659.00	
Change Over Sub	1.00			3660.00	
Recorder	0.00	8789	Inside	3660.00	
Recorder	0.00	8289	Outside	3660.00	
Blank Spacing	31.00			3691.00	
Change Over Sub	1.00			3692.00	
Perforations	25.00			3717.00	
Bullnose	3.00			3720.00	66.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc **6 12s 18w Ellis,KS**
 1310 Bison Rd **Lynette #1**
 Hays KS 67601-9696 Job Ticket: 64772 **DST#: 3**
 ATTN: Herb Deines Test Start: 2016.04.12 @ 17:09:00

Mud and Cushion Information

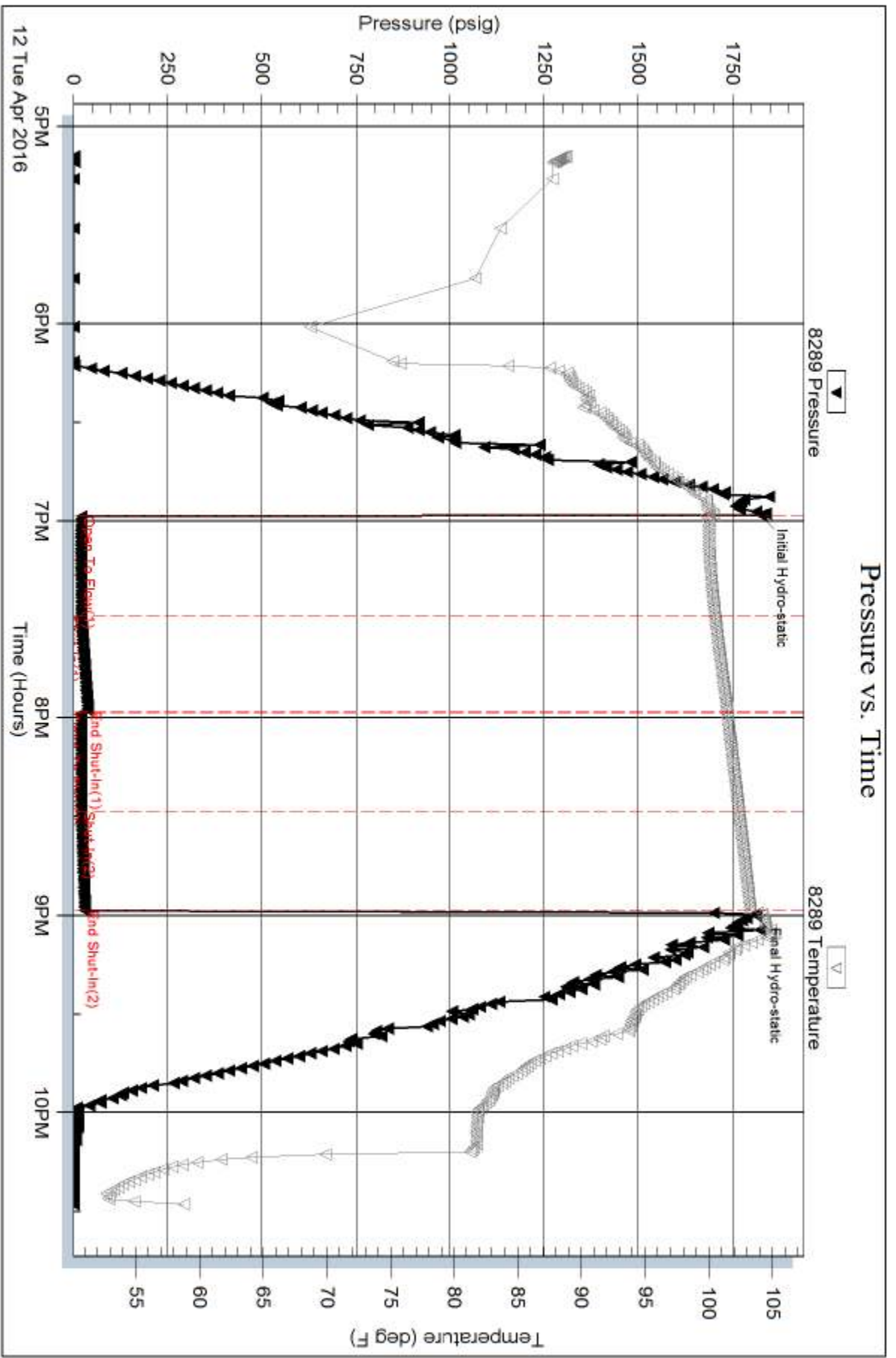
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5300.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mud 100%	0.056

Total Length: 4.00 ft Total Volume: 0.056 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



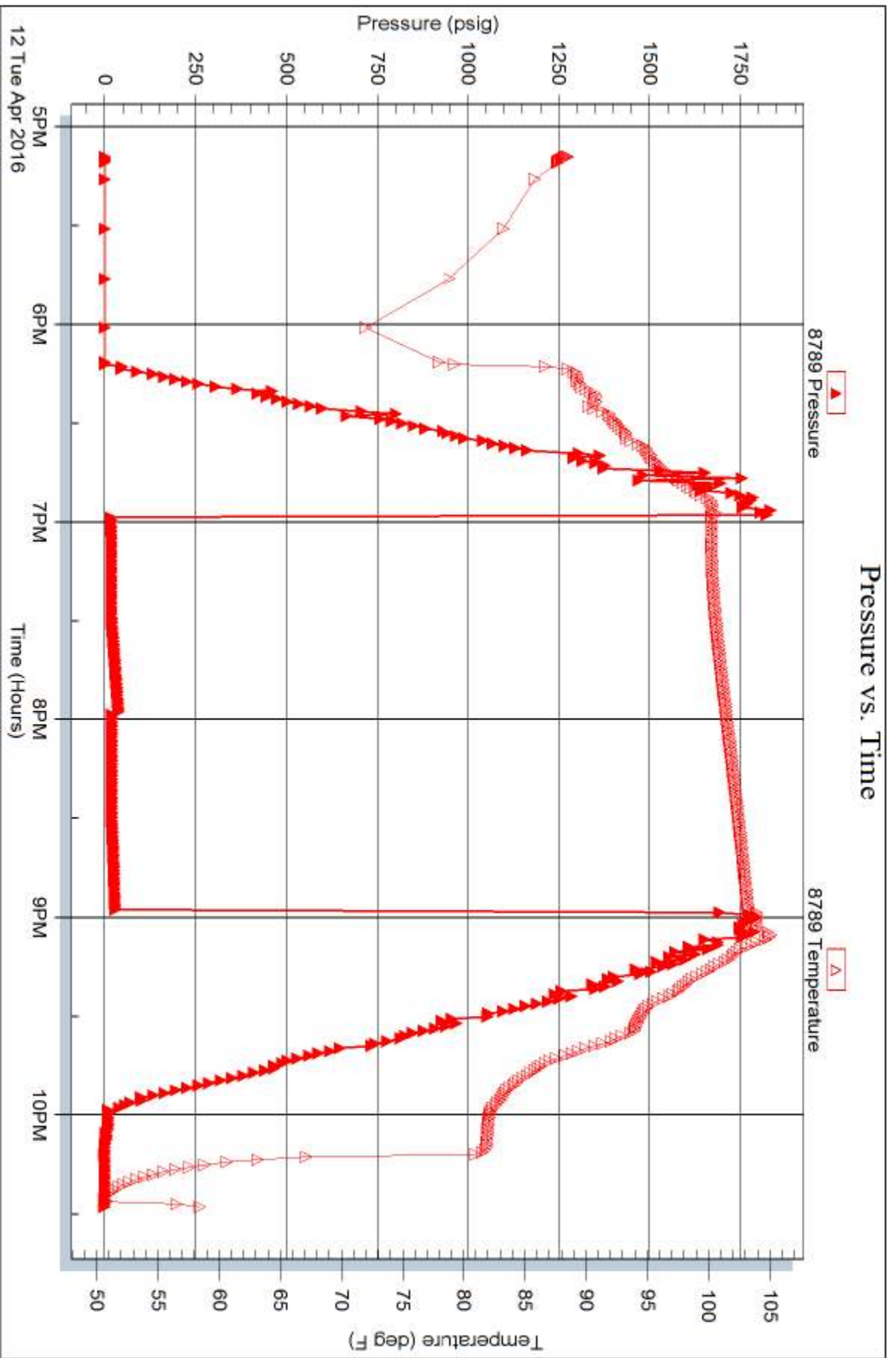
Serial #: 8789

Inside

TDI Inc

Lynette #1

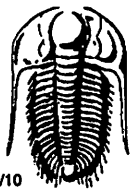
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64772

Printed: 2016.04.13 @ 08:12:27



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64770

Well Name & No. Lynette #1 Test No. 1 Date 4-11-16
 Company TDI Inc. Elevation 2145 KB 2137 GL
 Address 1310 Bison Rd. Hays KS 67601-9696
 Co. Rep / Geo. Herb Drines Rig Southwind #3
 Location: Sec. 6 Twp. 12S Rge. 18W Co. Ellis State KS

Interval Tested 3431-3470 Zone Tested LKC "C"
 Anchor Length 39 Drill Pipe Run 3421 Mud Wt. 8.6
 Top Packer Depth 3426 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 3431 Wt. Pipe Run 0 WL 7.2
 Total Depth 3470 Chlorides 1500 ppm System LCM 2

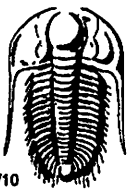
Blow Description IFP - 1 3/4 in. Blow in 11 min. Died Back in 30 min.
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>0.5m</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1648</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>04:54</u>
(B) First Initial Flow <u>20</u>	<input type="checkbox"/> Jars _____	T-Started <u>06:08</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>07:45</u>
(D) Initial Shut-In <u>576</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>10:45</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>12:07</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>22.50 30 RT</u>	Comments _____
(G) Final Shut-In <u>503</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1544</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1072.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1072.50</u>	

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64771

Well Name & No. Lynette #1 Test No. 2 Date 4-11-16
 Company TDI Inc. Elevation 2145 KB 2137 GL
 Address 1310 Bison Rd. Hays KS 67601-9696
 Co. Rep / Geo. Herb Deines Rig Southwind #3
 Location: Sec. 6 Twp. 12^s Rge. 18^w Co. Ellis State KS

Interval Tested 3468-3490 Zone Tested LKC "D"
 Anchor Length 22 Drill Pipe Run 3452 Mud Wt. 9
 Top Packer Depth 3463 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 3468 Wt. Pipe Run 0 WL 7.6
 Total Depth 3490 Chlorides 1600 ppm System LCM 2

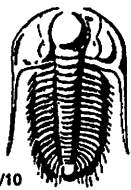
Blow Description IFP - BOB in 13 min
ISIP - No Blow
FFP - BOB in 19 min.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>375</u>	<u>Water</u>		<u>100</u>	<u>0</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 375 BHT 112 Gravity _____ API RW 0.96 @ 54 °F Chlorides 110,000 ppm
 (A) Initial Hydrostatic 1667 Test 1050 T-On Location 16:04
 (B) First Initial Flow 21 Jars _____ T-Started 16:27
 (C) First Final Flow 102 Safety Joint _____ T-Open 18:07
 (D) Initial Shut-In 579 Circ Sub _____ T-Pulled 20:52
 (E) Second Initial Flow 106 Hourly Standby _____ T-Out 22:21
 (F) Second Final Flow 196 Mileage 22.50 Comments _____
 (G) Final Shut-In 578 Sampler _____
 (H) Final Hydrostatic 1568 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1072.50
 Sub Total 1072.50
 Total 1072.50
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64772

Well Name & No. Lunette #1 Test No. 3 Date 4-12-16
 Company TDI INC. Elevation 2145 KB 2137 GL
 Address 1310 Bison Rd Hays KS 67601-9696
 Co. Rep / Geo. Herb Deines Rig Southwind #3
 Location: Sec. 6 Twp. 12^s Rge. 18^w Co. Ellis State KS

Interval Tested 3654-3720 Zone Tested Arbuckle
 Anchor Length 66 Drill Pipe Run 3643 Mud Wt. 9.2
 Top Packer Depth 3649 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 3654 Wt. Pipe Run 0 WL 8.0
 Total Depth 3720 Chlorides 5300 ppm System LCM 2

Blow Description IFP - 1/4 Blow Died Back in 19 min.
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>4</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 4 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1825 Test 1050 T-On Location 16:15
 (B) First Initial Flow 22 Jars _____ T-Started 17:09
 (C) First Final Flow 20 Safety Joint _____ T-Open 18:58
 (D) Initial Shut-In 38 Circ Sub _____ T-Pulled 20:58
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 22:28
 (F) Second Final Flow 21 Mileage 22.50 Comments _____
 (G) Final Shut-In 30 Sampler _____
 (H) Final Hydrostatic 1807 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1072.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1072.50

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