OPERATOR

Company:	TDI, INC.		
Address:	1310 BISON ROAD HAYS, KANSAS 67601		
Contact Geologist:	TOM DENNING		
Contact Phone Nbr:	785-259-3141		
Well Name:	LINUS # 1		
Location:	NW SW SE SE Sec.14-15s-19w	API:	15-051-26,314-00-00
Pool:	WILDCAT	Field:	UNNAMED
State:	KANSAS	Country:	USA

TDI, Inc. ©
1310 BISON ROAD
HAYS, KANSAS 67601
(785) 628-2593

Scale 1:240 Imperial

Well Name:	LINUS # 1		
Surface Location:	NW SW SE SE Sec.14-15s-19w		
Bottom Location:			
API:	15-051-26,314-00-00		
License Number:	4787		
Spud Date:	8/2/2012	Time:	8:30 AM
Region:	ELLIS COUNTY		
Drilling Completed:	8/8/2012	Time:	10:22 AM
Surface Coordinates:	595' FSL & 1040' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1987.00ft		
K.B. Elevation:	1997.00ft		
Logged Interval:	2800.00ft	To:	3700.00ft
Total Depth:	3700.00ft		
Formation:	CONGLOMERATE SAND		
Drilling Fluid Type:	FRESH WATER GEL/CHEMICAL		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:		Latitude:	
N/S Co-ord:	595' FSL		
E/W Co-ord:	1040' FEL		

LOGGED BY

SOLUTIONS CONSULTING

Company:	SOLUTIONS CONSULTING		
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:	8/2/2012	Time:	8:30 AM
TD Date:	8/8/2012	Time:	10:22 AM
Rig Release:	8/8/2012	Time:	11:45 PM

ELEVATIONS

K.B. Elevation:	1997.00ft	Ground Elevation:	1987.00ft
K.B. to Ground:	10.00ft		

NOTES

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

FORMATION TOPS SUMMARY AND DAILY ACTIVITY AND CHRONOLOGY

LINUS # 1
595’ FSL & 1040’ FEL, SE/4
Sec.14-15s-19w
1987’ GL 1997’ KB

FORMATION	SAMPLE TOPS	LOG TOPS
Anhydrite	1187+ 810	**1190+ 812**
B-Anhydrite	1223+ 774	**1224+ 773**
Topeka	2974- 977	**2974- 977**
Heebner Shale	3257-1260	**3257-1260**
Toronto	3278-1281	**3279-1282**
LKC	3301-1304	**3303-1306**
BKC	3546-1549	**3547-1550**
Arbuckle	3626-1629	**3626-1629**
RTD	3700-1703	
LTD		**3696-1699**

8-02-12 RU, Spud

8-03-12 1193', set surface casing to 1196' w/375 sxs. SMD, Slope survey 0 degree, WOC 12 hrs. Plug down 4:15PM, Swift Cementing

8-04-12 1235', drilling

8-05-12 2370', drilling

8-06-12 3125', drilling,

8-07-12 3500', drilling, DST # 1, DST # 2

8-08-12 3620', drilling, RTD 3700', Logs, Plug and Abandon well.

DST # 1 TEST SUMMARY

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI, Inc.

1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

14-15s-19w-Ellis

Linus #1

Job Ticket: 47843 **DST#: 1**

Test Start: 2012.08.07 @ 05:09:43

GENERAL INFORMATION:

Formation: **I-J**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 07:58:13
Time Test Ended: 11:17:13

Test Type: Conventional Bottom Hole (Initial)
Tester: Jason McLemore
Unit No: 54

Interval: 3446.00 ft (KB) To 3500.00 ft (KB) (TVD)
Total Depth: 3500.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

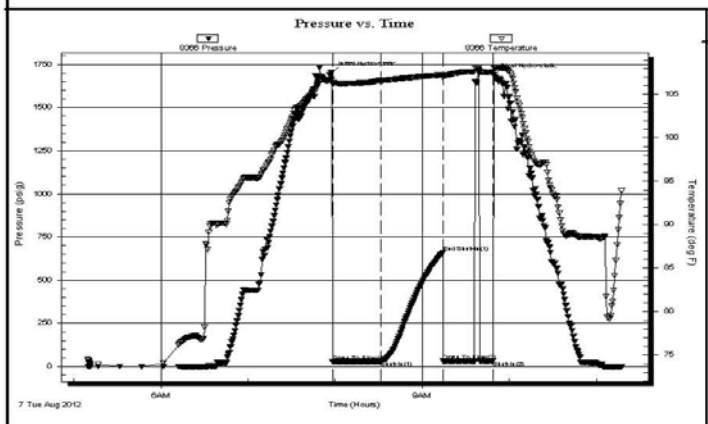
Reference Elevations: 1991.00 ft (KB)
1981.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8366 **Inside**

Press@RunDepth: 30.29 psig @ 3482.00 ft (KB)
Start Date: 2012.08.07 End Date: 2012.08.07
Start Time: 05:09:45 End Time: 11:17:13

Capacity: 8000.00 psig
Last Calib.: 2012.08.07
Time On Btm: 2012.08.07 @ 07:57:43
Time Off Btm: 2012.08.07 @ 09:49:28

TEST COMMENT: IFP-Surge On Open, Then Dead
ISI-Dead
FFP-Dead,Flush Tool, Surge, Then Dead
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1702.19	106.75	Initial Hydro-static
1	28.15	106.24	Open To Flow (1)
34	30.29	106.59	Shut-In(1)
77	660.47	107.27	End Shut-In(1)
77	30.34	106.90	Open To Flow (2)
111	32.09	107.57	Shut-In(2)
112	1687.64	108.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.07

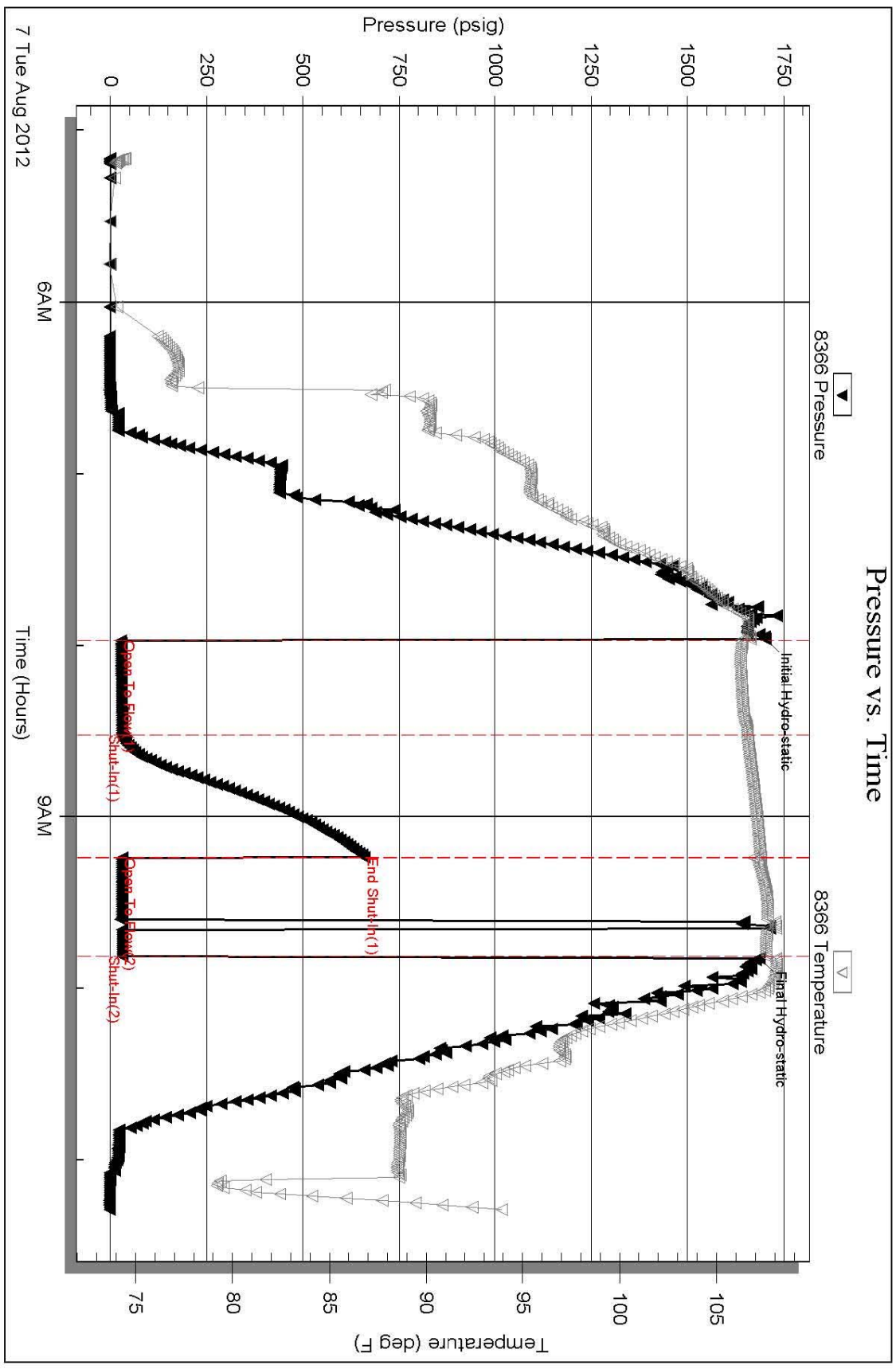
Gas Rates

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

Trilobite Testing, Inc Ref. No: 47843 Printed: 2012.08.07 @ 12:09:20

DST # 1 EXPANDED CHART

Serial #: 8366 **Inside** TDI, Inc. Linus #1



DST Test Number: 1

Trilobite Testing, Inc Ref. No: 47843 Printed: 2012.08.07 @ 12:09:22

DST # 2 TEST SUMMARY

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI, Inc.
1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

14-15s-19w-Ellis

Linus #1

Job Ticket: 49455 **DST#: 2**

Test Start: 2012.08.07 @ 23:38:00

GENERAL INFORMATION:

Formation:
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 01:51:15
Time Test Ended: 05:20:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 54

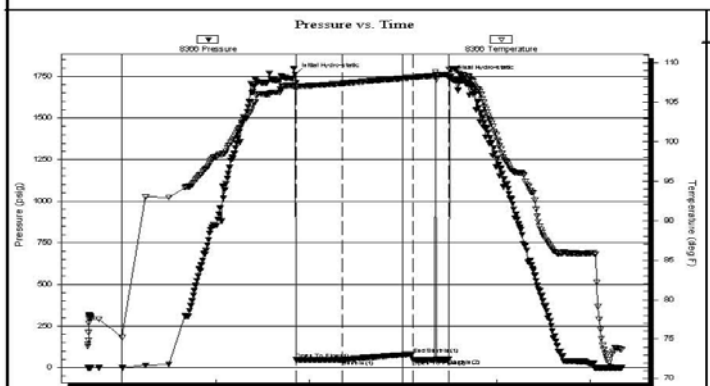
Interval: 3540.00 ft (KB) To 3620.00 ft (KB) (TVD)
Total Depth: 3620.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1991.00 ft (KB)
1981.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8366 **Inside**
Press@RunDepth: 48.53 psig @ 3607.00 ft (KB)
Start Date: 2012.08.07 End Date: 2012.08.08
Start Time: 23:38:02 End Time: 05:20:00

Capacity: 8000.00 psig
Last Calib.: 2012.08.08
Time On Btm: 2012.08.08 @ 01:51:00
Time Off Btm: 2012.08.08 @ 03:30:15

TEST COMMENT: 30 - IF- 1/4" blow , died in 5 Min.
45 - ISI- No blow back
FF- No blow , w aited 15 Min. Flushed tool, Surged & died. Waited 10 Min and pulled.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.20	107.49	Initial Hydro-static
1	46.88	106.71	Open To Flow (1)
30	48.53	107.40	Shut-In(1)
75	80.98	108.15	End Shut-In(1)
76	48.97	108.14	Open To Flow (2)
99	50.89	108.51	Shut-In(2)
100	1746.98	109.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.14

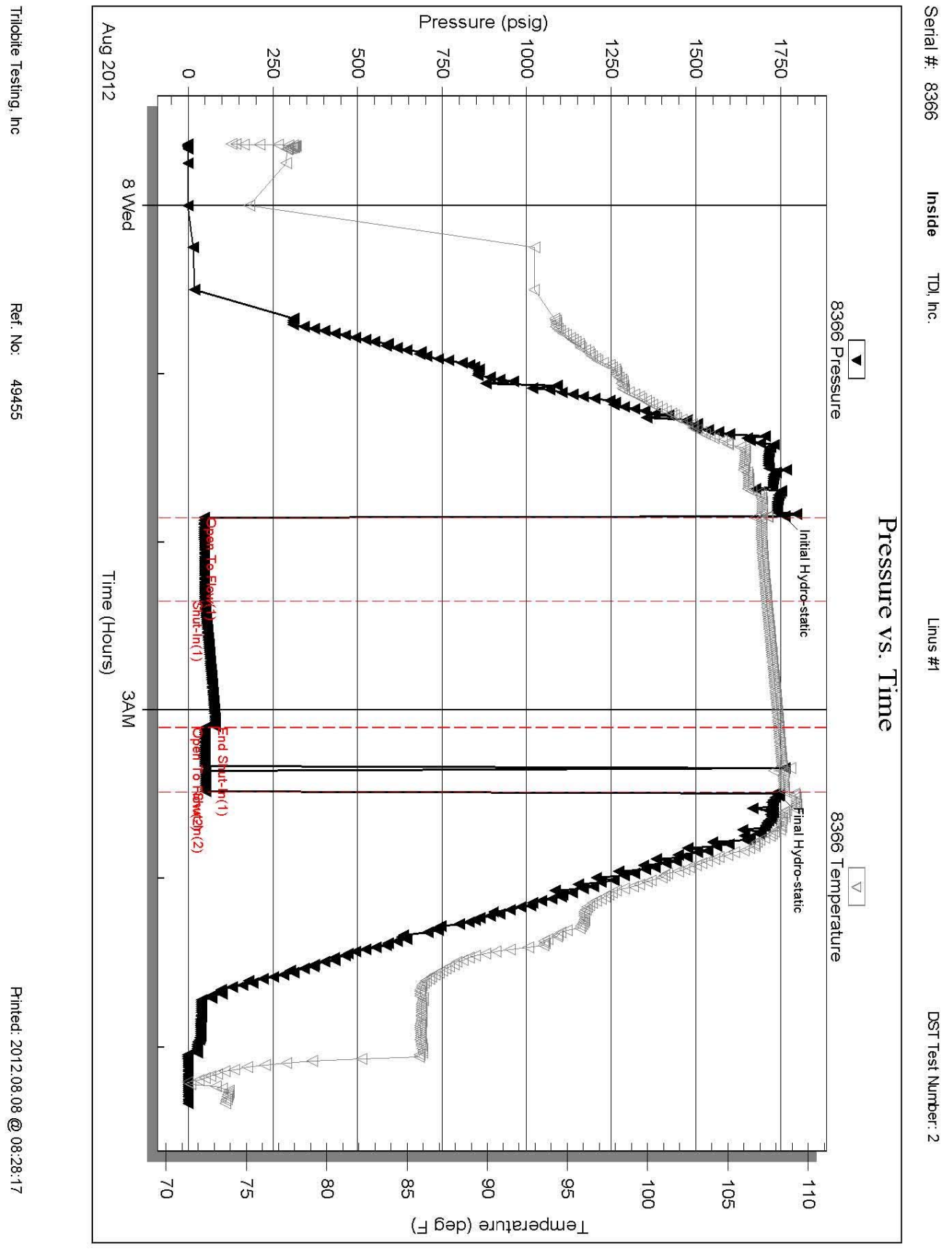
* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc Ref. No: 49455 Printed: 2012.08.08 @ 08:28:15

DST # 2 EXPANDED CHART



ROCK TYPES

Dolprim, Dol Lime, Lmst fw<7, Lmst fw7>, Lscongl, shale, grn, shale, gry, Carbon Sh, shale, red, Ss

ACCESSORIES

MINERAL
- Pyrite
- Sandy
- Chert White

FOSSIL
- Oolite
- Oomoldic

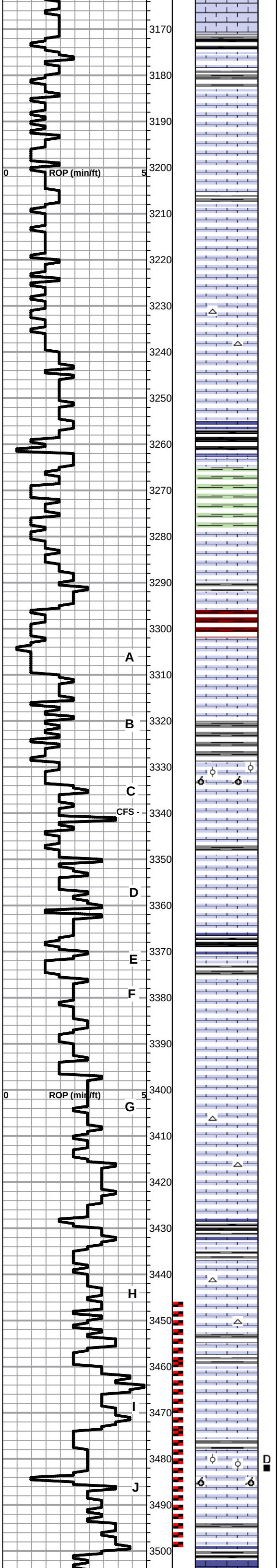
OTHER SYMBOLS

DST
- DST Int
- DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1
ROP (min/ft)
Intervals
Curve Track #3

1:240 Imperial	Depth | Cored Interval / DST Interval	DST	Lithology	Oil Show	Geological Descriptions	1:240 Imperial
0 ROP (min/ft) 5	2850				Begin 1' drill time from 2850' to RTD Begin 10' wet and dry samples from 2900' to RTD	8 5/8" surface casing set to 1196' with 375 sacks SMD
	2860				**ANHYDRITE TOP SPL 1187+810 ELog 1190+807** **ANHYDRITE BASE SPL 1223+774 ELog 1224+773**	Slope 0 degrees @1197'
	2870					
	2880					
	2890				Lime, grayish brn, fnxln, slightly fossiliferous	
	2900				Lime, grayish brn, fnxln	
	2910				Lime, med brn-gray, fnxln	
	2920				Lime, offwhite-brnish gray, fnxln	
	2930				Lime, grayish brn-gray, fnxln-granular, slightly fossiliferous	
	2940				Shale, lt-med gray, soft blocky	
	2950					
	2960				Shale, lt-med gray, soft grading into pyritic, calcareous shale near base of shale unit	
	2970		P		**<u>TOPEKA SPL 2974-977 ELog 2974-977</u>**	
	2980				Lime, crm-lt brn, fnxln, slightly fossiliferous	
	2990				Lime, crm-lt brn, fnxln, slightly chalky	
	3000				Lime, med brn-grayish brn, fnxln, slightly fossiliferous, fusulinids	
0 ROP (min/ft) 5	3010				Lime, offwhite-grayish brn-gray, fnxln	
	3020				Lime, lt brn-grayish brn, fnxln, fossiliferous in part	
	3030			◑	Lime, med brn, granular, mostly barren with one piece with show of light gassy oil on break. Fine-medium intercrystalline porosity	
	3040				Lime, med brn-grayish brn, granular-fnxln	
	3050				Lime, med brn-gray, fnxln-granular Shale, gray, calcareous with scattered fossil fragments	
	3060				Lime, lt-med brn, fnxln-granular	
	3070				Lime, lt-med brn, fnxln-granular	
	3080				Lime, lt brn-lt grayish brn, fnxln-granular	
	3090				Lime, lt brn-grayish brn, fnxln	
	3100				Lime, med brn-grayish brn, fnxln, fossiliferous in part	
	3110				Lime, lt-med brn-grayish brn, granular, fossiliferous Shale, black carbonaceous	
	3120				Lime, brn, fnxln	
	3130				Lime, crm-lt brn, fnxln-granular, chalk in part	
	3140				Lime, crm-lt brn, fnxln-granular, chalk in part	
	3150				Lime, crm-lt brn, fnxln-granular, chalk in part	
	3160				Lime, crm-lt brn, fnxln-granular	



Lime, crm-lt brn, fnxln-granular

Shale, black carbonaceous

Lime, med brn, granular, slightly fossiliferous

Lime, lt brn, fnxln-granular

Lime, crm-lt brn, fnxln-granular, slightly chalky

Lime, crm-lt brn, fnxln-granular

Lime, lt brn, fnxln

Lime, crm-lt brn, fnxln-granular
Chert, white-lt gray, fresh, sharp

Lime, lt brn, fnxln-granular, chalk in part

HEEBNER SHALE SPL 3257-1260 ELog 3257-1260

Shale, black carbonaceous, fissile
Lime,med brn, fnxln, slightly fossiliferous

Shale, lt green-grayish green, soft, sticky in part

TORONTO SPL 3278-1281 ELog 3279-1282

Lime, crm-lt brn, fnxln, slightly chalky NS

Lime, white-crm, fnxln, soft on break, NS

LKC SPL 3301-1304 ELog 3303-1306

Lime, lt brn, mostly fnxln, NS

Lime, lt brn-lt grayish brn, fnxln, slightly chalky, NS

Lime, crm-lt brn, fnxln with oolitic/oolmoldic in part, barren, NS

Lime, offwhite-crm, fnxln

Lime, offwhite-crm, fnxln

Lime, crm-lt-med brn, fnxln, fossiliferous in part

Shale, black carbonaceous
Lime, offwhite, fnxln

Lime, crm-lt brn, fnxln, chalk in part, NS

Lime, crm, fnxln, soft on break, chalk in part

Lime, white-crm, fnxln, very clean , chalk in part

Lime, crm, fnxln-cryptoxln, slight chalk in part

Lime, crm-tan, fnxln-cryptoxln

Lime, med brn, fnxln

Lime, offwhite-crm, fnxln with bedded chalk, NS

Lime, offwhite-crm, fnxln

Shale, gray-green, soft blocky

Lime, crm-lt brn, fnxln, chalky, NS

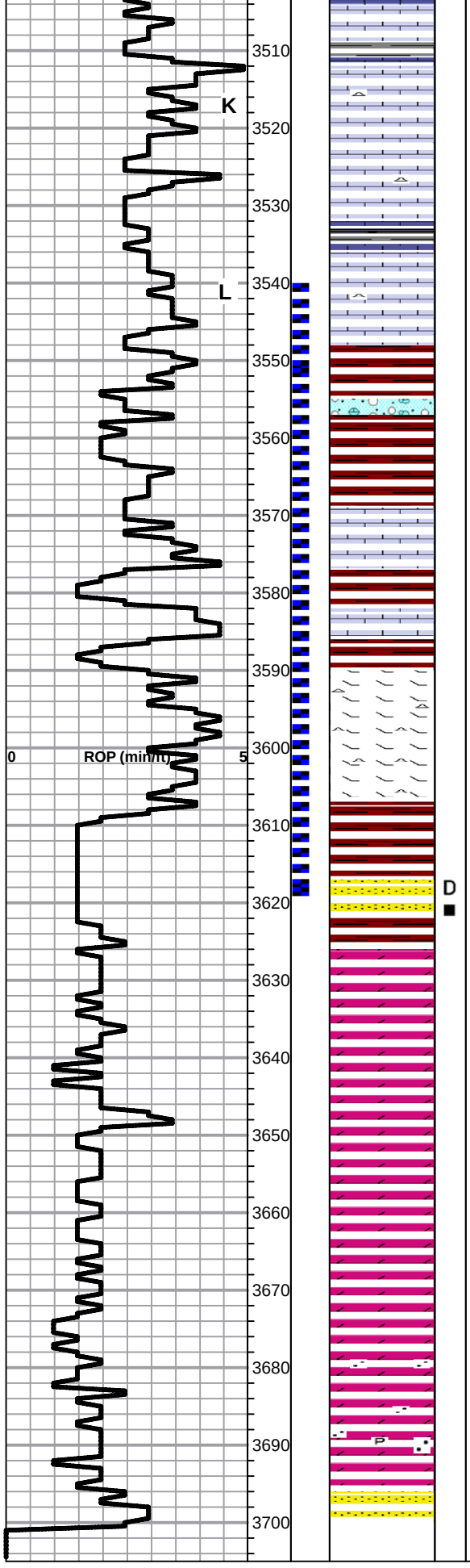
D

Lime, white-crm, mostly fnxln, scattered micro oolitic chips with scattered hvy dark oil. Few chips with brn fresh oil stain on flat surfaces, No Odor, good streaming wet cut

Lime, crm, fn-vfxln, chalk in part

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

DST # 1 3446'-3500'
SEE HEADER FOR TEST SUMMARY



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

Lime, crm-tan, fn-vfxln

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

Lime, tan-lt brn, fn-vfxln

BKC SPL 3546-1549 ELog 3547-1550

Shale, reddish brn, soft blocky

Shale, reddish brn with scattered clastic mix of limes with red shales

Shale, reddish brn

DST # 2 3540'-3620'
SEE HEADER FOR TEST SUMMARY

Lime, crm-lt brn, fnxln, soft

Shale, reddish brn-brn, soft blocky

Lime,dolomitic, fnxln with abundant varicolor cherts

Shale, reddish brns-grays

Sandstone, quartz, med to large grain, clear polished, fused in part, show dead oil and gilsonite, very good streaming wet cut.

Slope 1 degree

ARBUCKLE SPL 3626-1629 ELog 3626-1629

Dolomite, crm, fn-mdxln, granular

Dolomite, crm, fn-med xln, granular
Shale, lt green, soft, waxy

Dolomite, crm, fn-med xln, granular, section very clean in appearance

Dolomite, crm, fn-med xln, with scattered cxln, sucrosic in part

Dolomite, crm, fn-cxln. granular and sucrosic

Dolomite, crm, md-cxln granular, quartz grain inclusions

Dolomite, crm, md-cxln, scattered crystalline pyrite clusters

Sandstone, lt pink tint, med-coarse grained, polished, fused, NS

JOB LOG

SWIFT Services, Inc.

DATE 8-3-12 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
TDI	#1	Linus	Cement Surface	21852

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	TD-1197' DESCRIPTION OF OPERATION AND MATERIALS
	10:30					23#/Ft.	8 5/8	On location w/ F.E. Rig Start trip in
								Start 8 5/8" 23#/Ft casing to 1186'
	12:45							Cent 1-3-14 Bottle Plate SJ-36'
								@ 1160 = 738 BBl
	1300							Fin run casing
	1315							Rig cir casing / Plug Down
	1345							Fin circ. - Hook up Swift
		6	12				250	Start 500 GAL Mud Flush
		6	20				250	Start 20 BBl KCl Flush
		5					200	Start 325 SKS 50/50 POZ cmt.
		5					200	100 SKS @ 11.8 : 2.66 = 47
		5	47				200	100 SKS @ 12.5 : 2.15 = 38.55
		5	85				200	100 SKS @ 13.5 : 1.74 = 31
		5	116				200	75 SKS @ 14.5 : 1.46 = 20
		4	136				200/Vac	Fin cmt - Release Plug
		6 1/2					250	Start Displ
		6	40				350	@ 40 - slow rate
		5	60				350/300	@ 60 - slow rate
	1645		74				400/700	Plug Down - Bleed Psi to 500
							500	Close in -
								Circulated 100 SKS to Pit
								Wash up & Rack up
								Job Complete
	1730							Thanks
								Dan, Brian & Jeremy

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 934

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-8-12	14	15	19	Ellis	Ks		10:45 PM

Lease Linus Well No. #1 Location Antonino, Ks - 2 3/4 S, W/S

Contractor Southwind #1 Owner

Type Job Plug 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.

Hole Size 7 7/8" T.D. 3700'

Csg. Depth Charge To TDI Inc.

Tbg. Size 4 1/2" D.P. Depth 3606' Street

Tool Depth City State

Cement Left in Csg. Shoe Joint The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line Displace H20/mud Cement Amount Ordered 205 sx 60/40 4% Gel 1/4# Flo-seal

EQUIPMENT

Pumptrk 16 No. Cementer Helper Travis

Bulktrk 14 No. Driver Driver Cody

~~Bulktrk~~ p.u. No. Driver Driver Rick

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

3606' - 25 sx
1250' - 25 sx
490' - 100 sx
40' - 10 sx
Rathole - 30 sx
Mousehole - 15 sx

Cement did Circulate.

Common	123
Poz. Mix	82
Gel.	7
Calcium	
Hulls	
Salt	
Flowseal	50#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	212
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

1 - Dry hole plug

Pumptrk Charge Plug

Mileage 12

Tax

Discount

Total Charge

X Signature