

**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing

Sellesn A #1

PO Box 871
Russell Ks 67665

12-13-14, Russell Ks

ATTN: Brad Hutchinson

Job Ticket: 40979

DST#: 1

Test Start: 2010.10.22 @ 18:18:03

GENERAL INFORMATION:

Formation: **KC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:47:33

Time Test Ended: 01:27:03

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: **2775.00 ft (KB) To 2860.00 ft (KB) (TVD)**

Total Depth: 2860.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1641.00 ft (KB)

1636.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8319**

Inside

Press@RunDepth: 52.21 psig @ 2779.00 ft (KB)

Start Date: 2010.10.22

End Date:

2010.10.23

Capacity: 8000.00 psig

Last Calib.: 2010.10.23

Start Time: 18:18:08

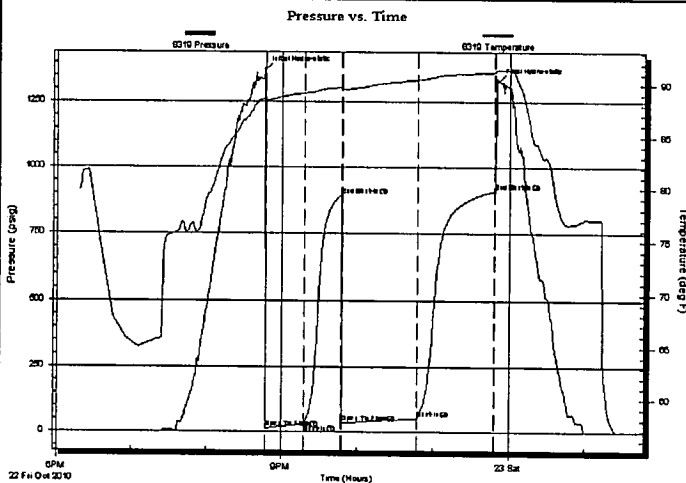
End Time:

01:27:02

Time On Btm: 2010.10.22 @ 20:46:33

Time Off Btm: 2010.10.22 @ 23:51:03

TEST COMMENT: IF-6in blow
IS-No blow
FF-5 1/2in blow
FSI-No blow



PRESSURE SUMMARY

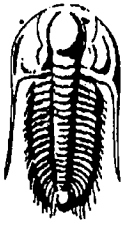
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1370.79	88.61	Initial Hydro-static
1	14.11	88.34	Open To Flow (1)
32	29.93	89.18	Shut-In(1)
61	894.72	89.71	End Shut-In(1)
62	34.86	89.52	Open To Flow (2)
121	52.21	90.48	Shut-In(2)
182	910.50	91.22	End Shut-In(2)
185	1327.86	91.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20%G 25%O 55%M	0.42
30.00	OCM 15%O 85%M	0.21
0.00	90ft GIP	0.00

Gas Rates

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



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FLUID SUMMARY

Brungardt Oil & Leasing

Sellesn A #1

PO Box 871
Russell Ks 67665

12-13-14, Russell Ks

Job Ticket: 40979

DST#: 1

ATTN: Brad Hutchinson

Test Start: 2010.10.22 @ 18:18:03

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 20%G 25%O 55%M	0.425
30.00	OCM 15%O 85%M	0.212
0.00	90ft GIP	0.000

Total Length: 90.00 ft Total Volume: 0.637 bbl

Num Fluid Samples: 0

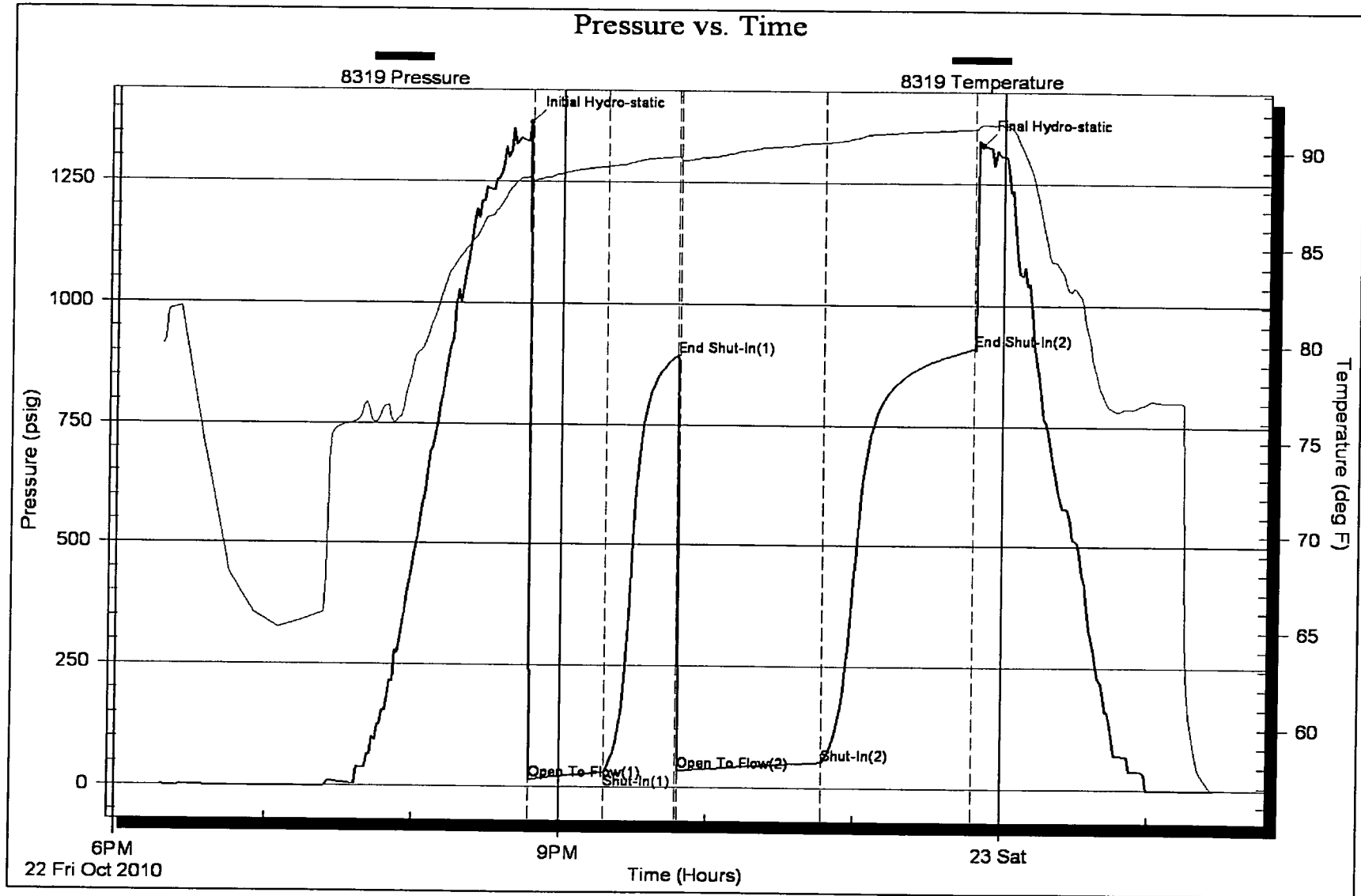
Num Gas Bombs: 0

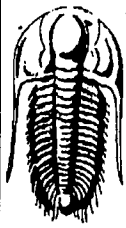
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
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DRILL STEM TEST REPORT

Brungardt Oil & Leasing

Sellens A #1

PO Box 871
Russell Ks 67665

12-13-14, Russell Ks

Job Ticket: 40980

DST#: 2

ATTN: Brad Hutchinson

Test Start: 2010.10.23 @ 08:10:30

GENERAL INFORMATION:

Formation: **70ft zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:30:30

Time Test Ended: 13:37:30

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: **2865.00 ft (KB) To 2895.00 ft (KB) (TVD)**

Total Depth: 2895.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1641.00 ft (KB)

1636.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 13.80 psig @ 2869.00 ft (KB)

Start Date: 2010.10.23

End Date: 2010.10.23

Capacity: 8000.00 psig

Last Calib.: 2010.10.23

Start Time: 08:10:35

End Time: 13:37:29

Time On Btm: 2010.10.23 @ 10:29:00

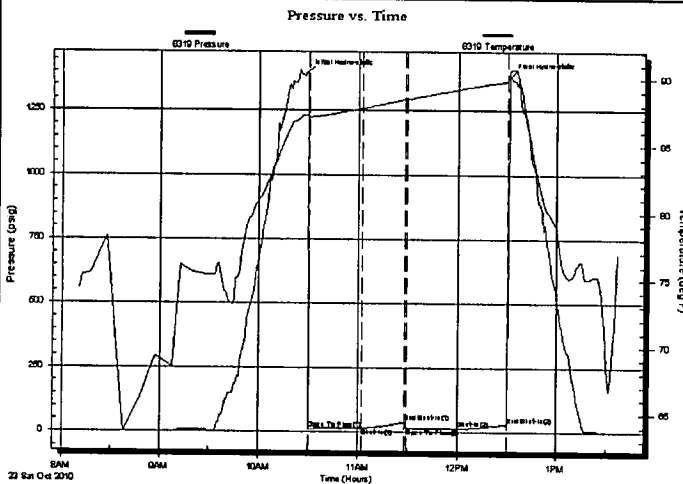
Time Off Btm: 2010.10.23 @ 12:31:30

TEST COMMENT: IF-Very weak surface blow died in 4min

IS-No blow

FF-No blow

FSI-No blow



PRESSURE SUMMARY

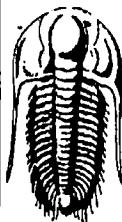
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1392.46	87.26	Initial Hydro-static
2	12.75	87.12	Open To Flow (1)
34	14.41	87.81	Shut-In(1)
60	39.45	88.48	End Shut-In(1)
61	13.61	88.50	Open To Flow (2)
91	13.80	89.21	Shut-In(2)
121	30.93	89.83	End Shut-In(2)
123	1382.97	90.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	VSOCM 5%O 95%M	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

ESJMTUFN!UFTU!SFQPSU

FLUID SUMMARY

CsvohbseUPjm!M bt joh

Sellens A #1

QP!Cpy!982
Svt t f r t !78776

12-13-14, Russell Ks

Kpc!Udl f u 51: 91

DST#: 2

BUU; Csbell vudi jot po

Uft uTbsj 3121/21/34!A !19;21;41

Mud and Cushion Information

Nve!Lzqf; Hf rDi f n

Dvt i jpo!Lzqf;

PjrtBQJ

ef h!BQJ

Nve!X f jhi u : /11 rObm

Dvt i jpo!M ohu ;

gu

X bnf s!Tbjoz;

qqn

Vjt dpt juz; 59/11 t f d0 u

Dvt i jpo!Wprnf ;

ccm

X bnf s!Mpt t ; 9/88 jop

Hbt !Dvt i jpo!Lzqf ;

Sf t jt vjuz; pi n/n

Hbt !Dvt i jpo!Qsf t t vsf ;

qt jh

Tbjoz; 5411/11 qqn

Grf s!Dbl f ; jodi f t

Recovery Information

Sf dpwf sz!Ubcfn

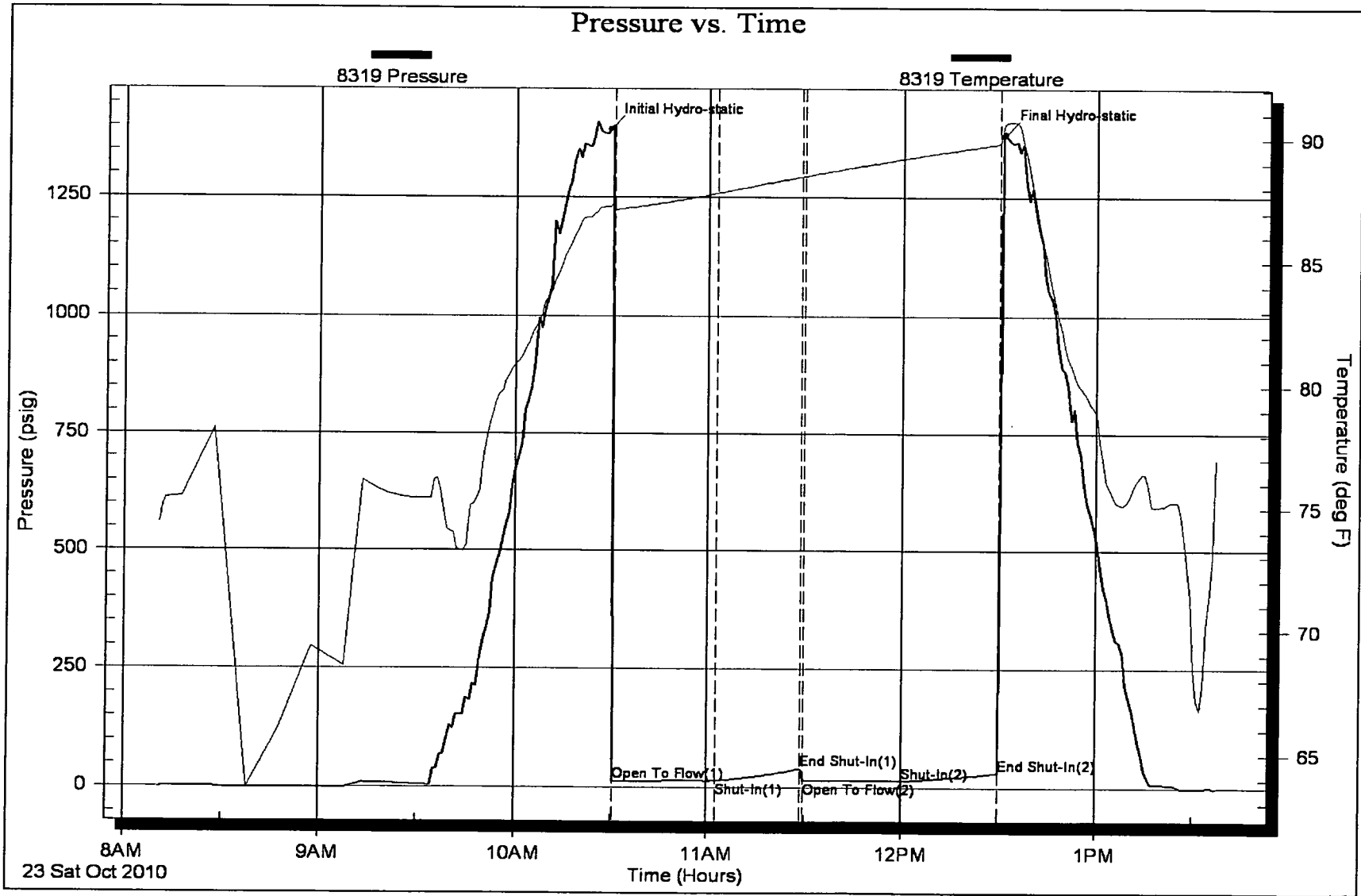
M ohu gu	Ef t dsjqpo	Wprnf ccm
3/11	WTPDN!G& P! 6& N	1/125

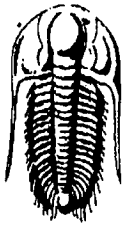
UpbrtM ohu ; 3/11 gu UpbrtWprnf ; 1/125 ccm

Ovn !Gvje!Tbn qrit ; 1 Ovn !Hbt !Cpn ct ; 1 Tf sbrt\$;

Mocpsbupsz!Obnf ; Mocpsbupsz!Mpdbyjo;

Sf dpwf sz!Dpn n f out ;





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TESTING, INC**

ESJMMTUFN!UFTU!SFQPSU

CsvohbseUPjhm!M bt joh

Sellens A #1

QPI Cpy!982
Svt t f mlt !78776

12-13-14, Russell Ks

Kpc!Ujdl f y 51: 92 **DST#: 3**

BUU; Csbell vudi jot po

Uf t uTubsy 3121/21/34!A !2: ;29;12

HF OF SBM.DGP SNBUPO;

Qpsn bupo; **KC "F-G"**
Ef vjbf e; Op X i jqt updl; g!)LC*
Ujnf !UprntPqf of e; 32;44;12
Ujnf !Uf t uFoef e; 13;16;12

Uf t uLzqf; Dpowf oypobntCpupn !! prh
Uf t u f s; Csf u!Ejdl jot po
VojdOp; 58

Interval: **2890.00 ft (KB) To 2920.00 ft (KB) (TVD)**
UpbrntEf qu; 3: 31/11 g!)LC*)UAE*
l prnt!Ejbnf f s; 8/99 jodi ft l prnt!Dpoejypo; Gbjs

Sf g f s of d f !Frfwbyjpot; 2752/11 g!)LC*
2747/11 g!)DG*
LC!p!HS!DG 6/11 gu

Serial #: 8319

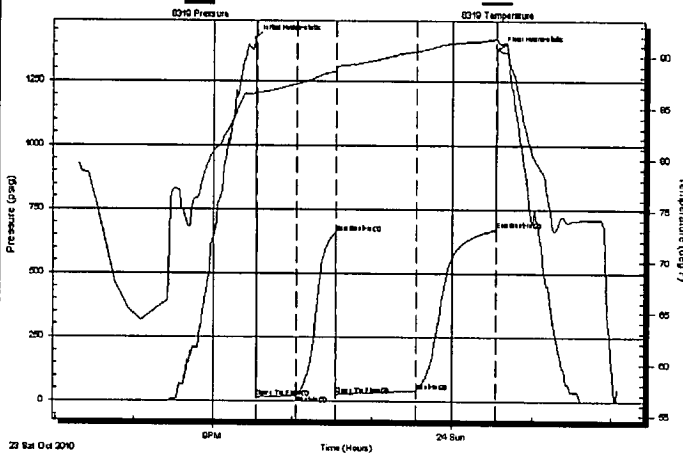
Inside

Qf t t A SvoEf qu; 53/63 qt jh A 39: 4/11 g!)LC*
Tubsu!Ebf; 3121/21/34 Foel!Ebf; 3121/21/35
Tubsu!Ujnf; 2; ;29;17 Foel!Ujnf; 13;16;11

Dbqbdjuz; 9111/11 qt jh
Mbt uDbjzo/; 3121/21/35
Ujnf !P!o!Cun; 3121/21/34!A !32;43;12
Ujnf !P!g!Cun; 3121/21/35!A !11;46;12

UFTUDPNNFUO; G 3!2Gjoc!rpx
J JOp!c!rpx
GG 7!2Gjoc!rpx
GT JOp!c!rpx

Pressure vs. Time



QSFTTVSF!TVNNBSZ

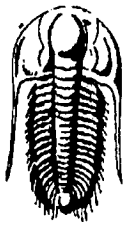
Ujnf)Njo/*	Qf t t vsf)qt jh*	Uf n q)ef h!G*	Boopubypo
1	2525/94	97/62	!bjbrth zesp.t ubjd
2	25/11	97/3:	Pqf ol!Up!Gpx)2*
42	34/: 7	98/45	Ti vu.b)2*
71	76: /26	99/73	Foel!Ti vu.b)2*
72	35/78	99/91	Pqf ol!Up!Gpx)3*
232	53/63	: 1/64	Ti vu.b)3*
292	782/57	: 2/8:	Foel!Ti vu.b)3*
294	2484/84	: 2/49	Gobrth zesp.t ubjd

Sf dpw' z

Mohu)gf	Ef t dsqjipo	Vjrn f)ocrh
81/11	WTX HNDP!!31& H!!66& P!6& X !31& N	1/61
1/11	61gJH.Q	1/11

Hbt !Sb f t

Di pl f)jod ft*	Qf t t vsf)qt jh*	Hbt !Sb f)N dge*



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ESJMTUFN!UFTU!SFQPSU

FLUID SUMMARY

CsvohbseUPjhm!M bt joh

Sellens A #1

CP!Cpy!982
Svt t f rht !178776

12-13-14, Russell Ks

Kpc!Ujdl f u 51: 92

DST#: 3

BUUQ; Csbell vudi jot po

Uf t uTubsj 3121/21/34!A I2: ;29;12

Mud and Cushion Information

Nve!Lzqf; Hf rtdi f n

Dvt i jpo!Lzqf;

PjrtBQJ

ef h!BQJ

Nve!X f jhi u : /11 rthbm

Dvt i jpo!M ohu ;

gu

X buf slTbjoz;

qqn

Vyt dpt jz; 55/11 t f d0 u

Dvt i jpo!Wbrnf ;

ccm

X buf slMpt t ; 23/4: jop

Hbt !Dvt i jpo!Lzqf ;

Hbt !Dvt i jpo!Qst t vsf ;

qt jh

Sf t jt vjuz; pi n/n

Tbjoz; 5411/11 qqn

Qrs!Dbl f ; jodi f t

Recovery Information

Sf dpwf sz!Ubcfh

M ohu gu	Ef t dsjqpo	Wbrnf ccm
81/11	WTX HNDP!!31& H!!66& P!6& X I31& N	1/5: 7
1/11	61g!H.Q	1/111

Upbrt!M ohu ; 81/11 gu Upbrt!Wbrnf ; 1/5: 7 ccm

Ovn !Gvje!Tbn qfrit ; 1

Ovn !Hbt !Cpn ct ; 1

Tf sbrt\$;

Mbcpsbupsz!Cbn f ;

Mbcpsbupsz!Mpdbyjo;

Sf dpwf sz!Dpn n f out ;

