



KANSAS CORPORATION COMMISSION 1052959
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1052959

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Verna Herl 1-12
Doc ID	1052959

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Verna Herl 1-12
Doc ID	1052959

Tops

Name	Top	Datum
Top Anhydrite	1432	+755
Base Anhydrite	1478	+709
Topeka	3183	-996
Heebner	3430	-1243
Toronto	3448	-1261
LKC	3477	-1290
BKC	3704	-1517
Arbuckle	3780	-1593



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC
 PO Box 372
 Hays, Ks
 67601
 ATTN: Marc Downing

Verna Herl 1-12
12-14-19/ELLIS KS
 Job Ticket: 41407 **DST#: 1**
 Test Start: 2011.01.06 @ 03:13:16

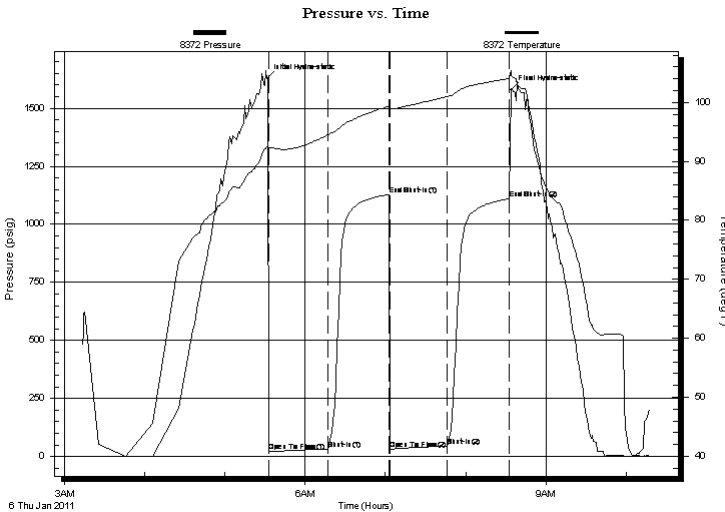
GENERAL INFORMATION:

Formation: **Plattsmouth**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:32:45
 Time Test Ended: 10:17:45
 Interval: **3391.00 ft (KB) To 3433.00 ft (KB) (TVD)**
 Total Depth: 3433.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 2187.00 ft (KB)
 2180.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
 Press @ Run Depth: 45.38 psig @ 3394.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.06 End Date: 2011.01.06 Last Calib.: 2011.01.06
 Start Time: 03:13:16 End Time: 10:17:45 Time On Btm: 2011.01.06 @ 05:31:15
 Time Off Btm: 2011.01.06 @ 08:34:15

TEST COMMENT: IFP - BOB 13 min
 ISI - 1/2" blow back - died 15 min
 FFP - BOB 6 min
 FSI - 1/4" blow back - died 14 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.10	92.48	Initial Hydro-static
2	21.00	92.33	Open To Flow (1)
46	31.64	94.46	Shut-In(1)
92	1128.37	99.32	End Shut-In(1)
92	28.99	98.91	Open To Flow (2)
135	45.38	100.97	Shut-In(2)
182	1110.10	104.04	End Shut-In(2)
183	1580.11	104.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 10%G, 55%O, 35%M	0.55
30.00	FREE OIL 95%O, 5%M	0.42
0.00	530' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Verna Herl 1-12

PO Box 372
Hays, Ks
67601

12-14-19/ELLIS KS

Job Ticket: 41407

DST#: 1

ATTN: Marc Downing

Test Start: 2011.01.06 @ 03:13:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO 10%G, 55%O, 35%M	0.550
30.00	FREE OIL 95%O, 5%M	0.421
0.00	530' GIP	0.000

Total Length: 90.00 ft Total Volume: 0.971 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

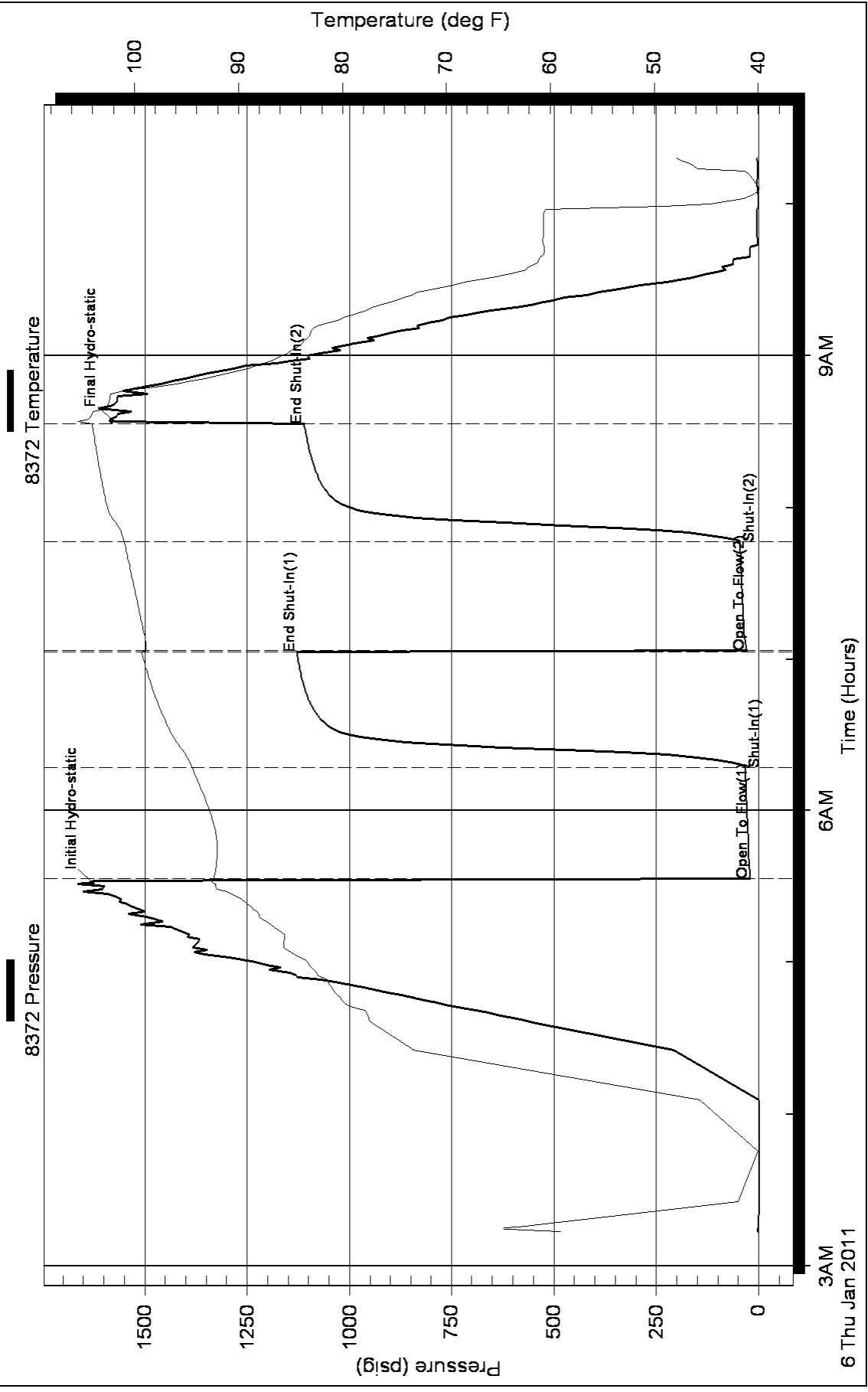
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC
 PO Box 372
 Hays, Ks
 67601
 ATTN: Marc Downing

Verna Herl 1-12
12-14-19/Ellis
 Job Ticket: 41408 **DST#: 2**
 Test Start: 2011.01.06 @ 16:37:55

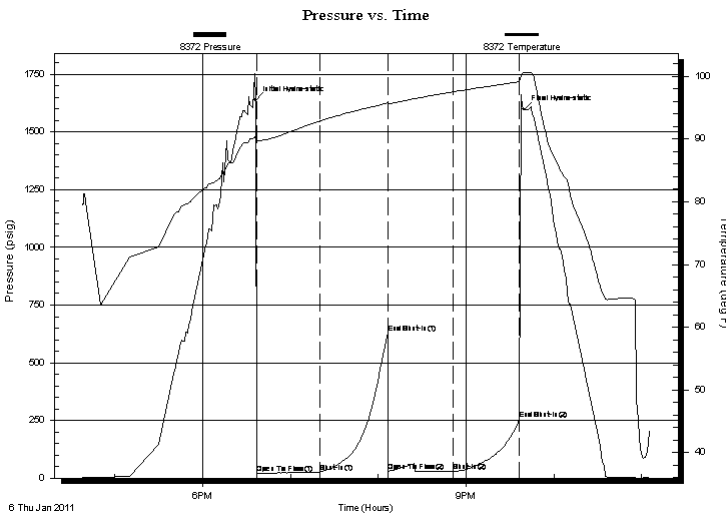
GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:36:54
 Time Test Ended: 23:05:24
Interval: 3426.00 ft (KB) To 3464.00 ft (KB) (TVD)
 Total Depth: 3464.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 2187.00 ft (KB)
 2180.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
 Press @ Run Depth: 30.57 psig @ 3429.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.06 End Date: 2011.01.06 Last Calib.: 2011.01.06
 Start Time: 16:37:55 End Time: 23:05:24 Time On Btm: 2011.01.06 @ 18:35:54
 Time Off Btm: 2011.01.06 @ 21:39:24

TEST COMMENT: IFP - weak blow throughout 1/4" - 2 1/4"
 ISI - no blow back
 FFP - weak to fair blow 1" - 4 1/2"
 FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.17	90.10	Initial Hydro-static
1	18.70	89.69	Open To Flow (1)
44	26.03	92.86	Shut-In(1)
91	627.78	95.74	End Shut-In(1)
91	30.01	95.58	Open To Flow (2)
135	30.57	97.54	Shut-In(2)
181	253.51	99.14	End Shut-In(2)
184	1598.26	100.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 20%O, 80%M	0.10
20.00	SOCM 10%O, 90%M	0.17
0.00	50' GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Verna Herl 1-12

PO Box 372
Hays, Ks
67601

12-14-19/Ellis

Job Ticket: 41408

DST#: 2

ATTN: Marc Downing

Test Start: 2011.01.06 @ 16:37:55

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	OCM 20%O, 80%M	0.098
20.00	SOCM 10%O, 90%M	0.171
0.00	50' GIP	0.000

Total Length: 40.00 ft Total Volume: 0.269 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

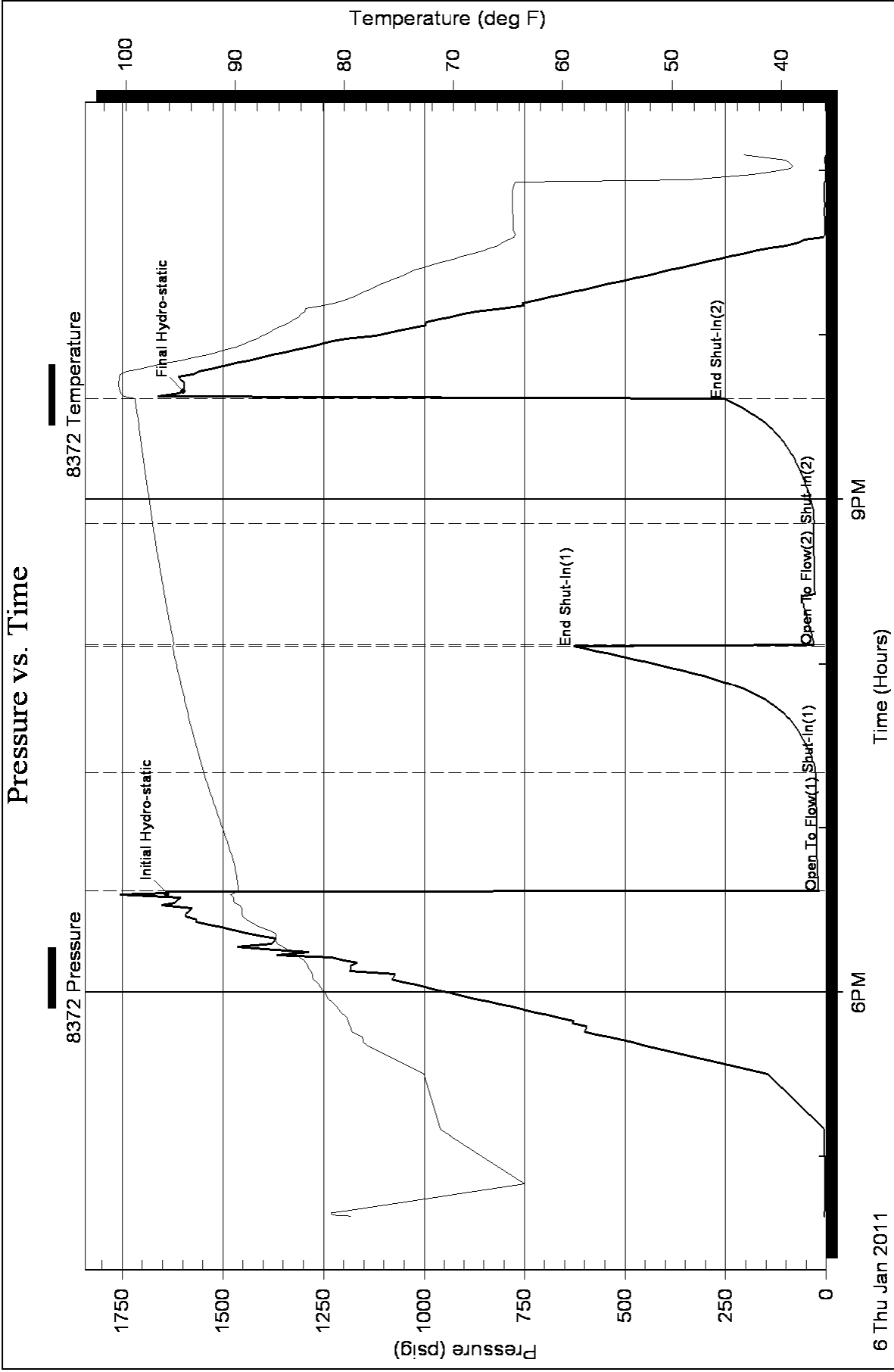
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

DNOC
PO Box 372
Hays, Ks
67601
ATTN: Marc Downing

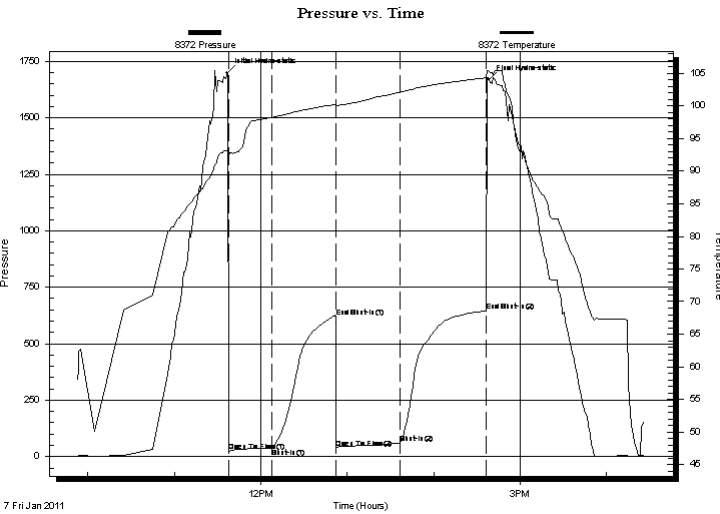
Verna Herl 1-12
12-14-19/Ellis
Job Ticket: 41409 **DST#: 3**
Test Start: 2011.01.07 @ 09:52:54

GENERAL INFORMATION:

Formation: **LKC "D-E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:37:53
Time Test Ended: 16:26:23
Interval: **3512.00 ft (KB) To 3552.00 ft (KB) (TVD)**
Total Depth: 3552.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 2187.00 ft (KB)
2180.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
Press @ Run Depth: 58.11 psig @ 3515.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.07 End Date: 2011.01.07 Last Calib.: 2011.01.07
Start Time: 09:52:54 End Time: 16:26:23 Time On Btm: 2011.01.07 @ 11:36:53
Time Off Btm: 2011.01.07 @ 14:38:23

TEST COMMENT: IFP - BOB 7 min
ISI - sur blow back - died 12 min
FFP - BOB 30 sec
FSI - sur blow back - died 9 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1698.82	93.26	Initial Hydro-static
1	21.92	92.28	Open To Flow (1)
31	38.03	98.23	Shut-In(1)
75	618.26	100.24	End Shut-In(1)
76	38.16	100.08	Open To Flow (2)
120	58.11	102.10	Shut-In(2)
180	643.95	104.34	End Shut-In(2)
182	1671.31	105.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GMCO 30%G, 40%O, 30%M	0.27
20.00	GMO 55%G, 30%O, 15%M	0.28
55.00	GHOCM 5%G, 30%O, 65%M	0.77
0.00	1120' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Verna Herl 1-12

PO Box 372
Hays, Ks
67601

12-14-19/Ellis

Job Ticket: 41409

DST#: 3

ATTN: Marc Downing

Test Start: 2011.01.07 @ 09:52:54

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:

bbbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	GMCO 30%G, 40%O, 30%M	0.270
20.00	GMO 55%G, 30%O, 15%M	0.281
55.00	GHOCM 5%G, 30%O, 65%M	0.772
0.00	1120' GIP	0.000

Total Length: 115.00 ft

Total Volume: 1.323 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

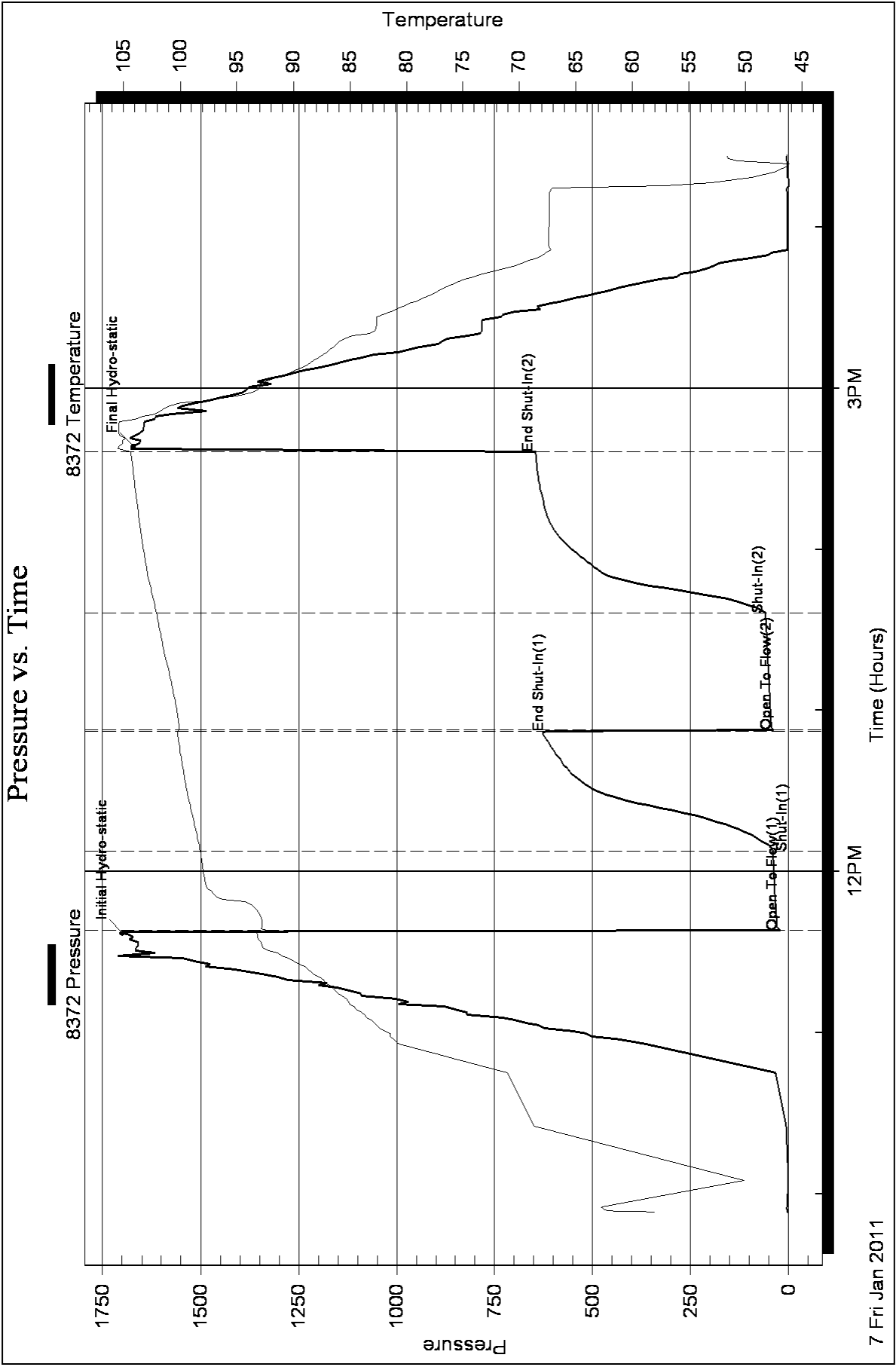
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

DNOC
PO Box 372
Hays, Ks
67601
ATTN: Marc Downing

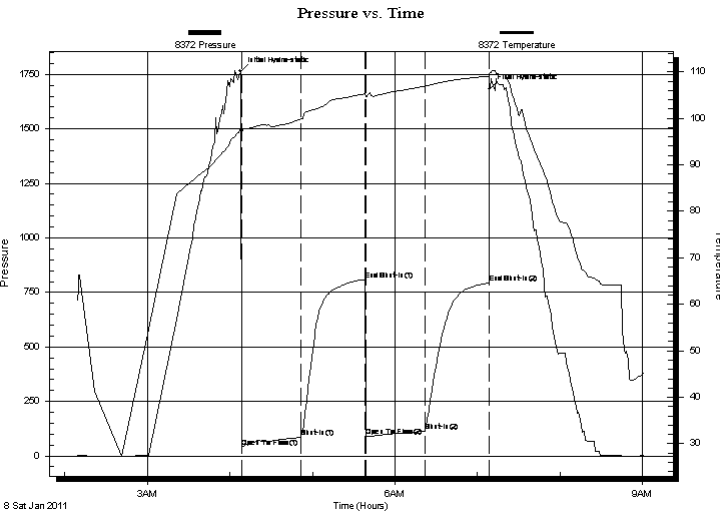
Verna Herl 1-12
12-14-19/Ellis
Job Ticket: 41410 **DST#: 4**
Test Start: 2011.01.08 @ 02:09:11

GENERAL INFORMATION:

Formation: **LKC "H-I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:08:40
Time Test Ended: 09:02:10
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41
Interval: **3581.00 ft (KB) To 3638.00 ft (KB) (TVD)**
Reference Elevations: 2187.00 ft (KB)
Total Depth: 3638.00 ft (KB) (TVD) 2180.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
Press @ Run Depth: 113.48 psig @ 3587.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.08 End Date: 2011.01.08 Last Calib.: 2011.01.08
Start Time: 02:09:11 End Time: 09:02:10 Time On Btm: 2011.01.08 @ 04:07:40
Time Off Btm: 2011.01.08 @ 07:09:10

TEST COMMENT: IFP - BOB 17 min
ISI 1/2" blow back throughout
FFP - BOB 10 min
FSI - 2 1/2" blow back throughout



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.88	97.83	Initial Hydro-static
1	40.86	97.10	Open To Flow (1)
44	84.98	99.82	Shut-In(1)
91	809.81	105.28	End Shut-In(1)
92	88.75	104.72	Open To Flow (2)
134	113.48	106.93	Shut-In(2)
181	793.61	109.07	End Shut-In(2)
182	1684.32	109.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSO & WCM 27%G, 3%O, 5%W, 65%M	0.55
40.00	GOCM 40%G, 10%O, 50%M	0.56
70.00	VSO CM 10%G, 3%O, 87%M	0.98
5.00	FREE OIL 95%O, 5%M	0.07
0.00	375' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Verna Herl 1-12

PO Box 372
Hays, Ks
67601

12-14-19/Ellis

Job Ticket: 41410

DST#: 4

ATTN: Marc Downing

Test Start: 2011.01.08 @ 02:09:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	VSO & WCM 27%G, 3%O, 5%W, 65%M	0.550
40.00	GOCM 40%G, 10%O, 50%M	0.561
70.00	VSOCM 10%G, 3%O, 87%M	0.982
5.00	FREE OIL 95%O, 5%M	0.070
0.00	375' GIP	0.000

Total Length: 175.00 ft

Total Volume: 2.163 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

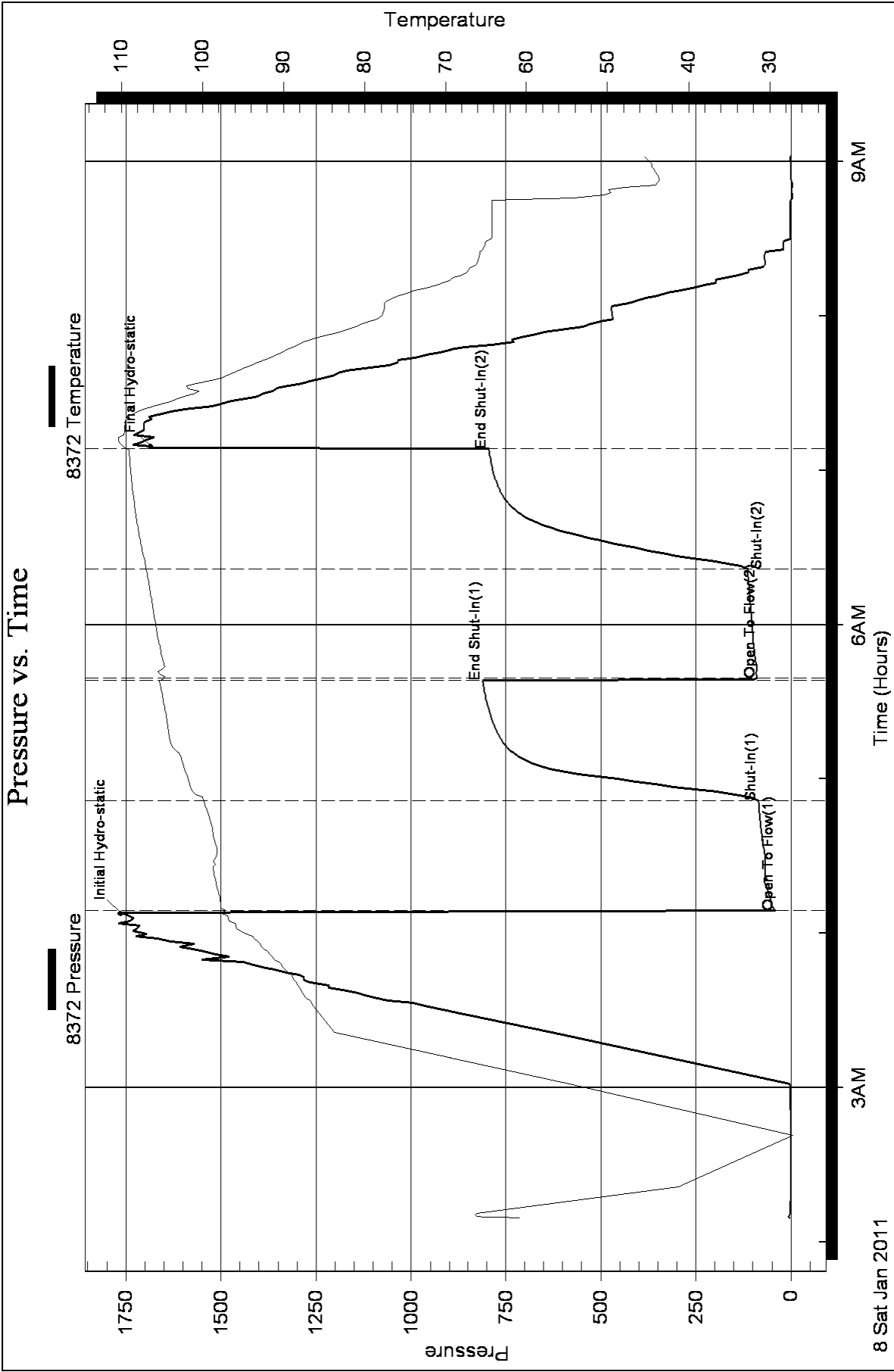
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Verna Herl 1-12

PO Box 372
Hays, Ks
67601

12-14-19/Ellis

Job Ticket: 41411

DST#: 5

ATTN: Marc Downing

Test Start: 2011.01.08 @ 15:34:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 88.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GMCO 30%G, 55%O, 15%M	1.392
60.00	FREE OIL 95%O, 5%M	0.842
0.00	1460' GIP	0.000

Total Length: 180.00 ft

Total Volume: 2.234 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

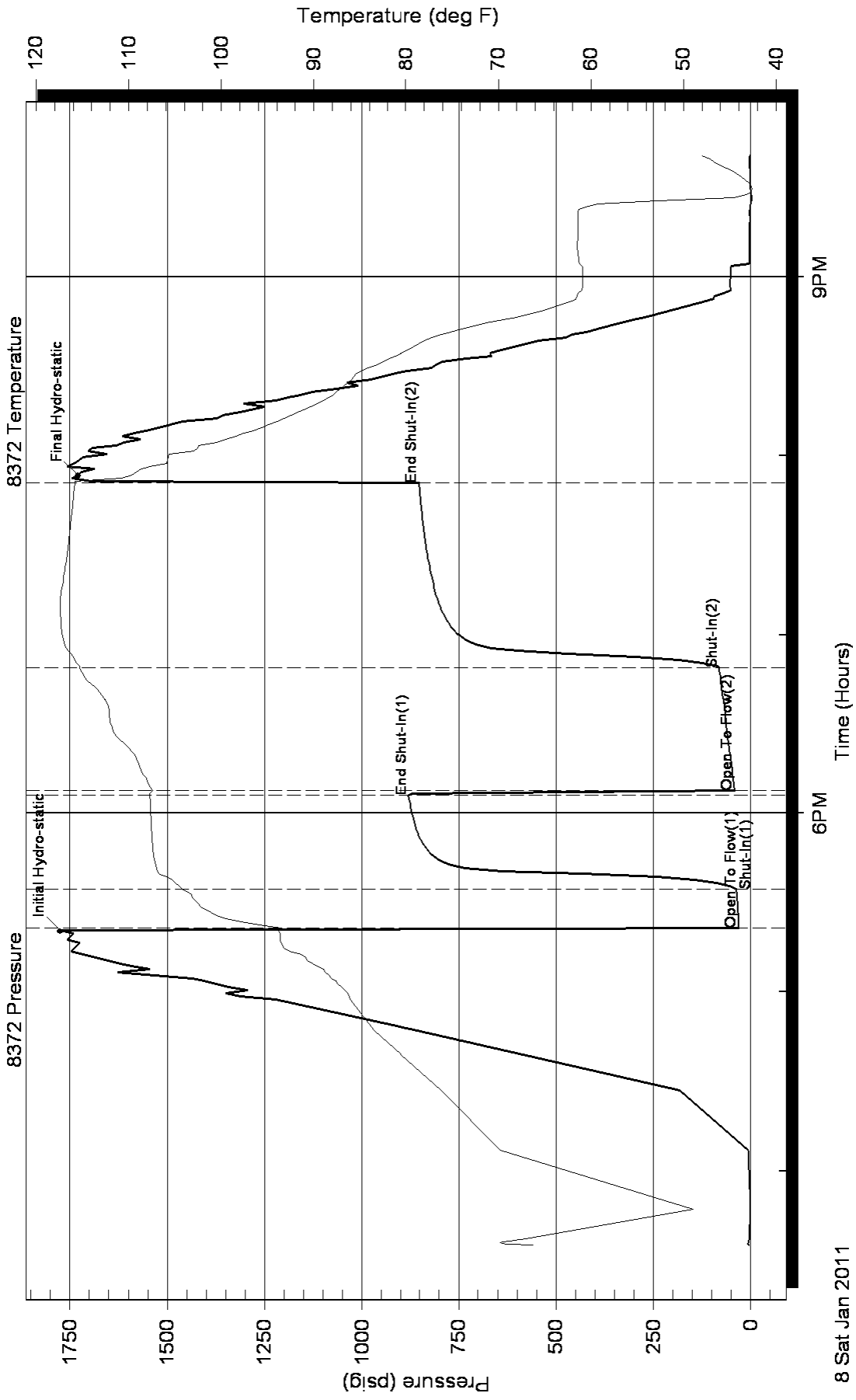
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



ALLIED CEMENTING CO., LLC. 034049

Federal Tax I.D.# 20-5975804

SHIP TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

DATE <u>12-16-16</u>	SEC. <u>12</u>	TWP. <u>14</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START COUNTY <u>Ellis</u>	JOB FINISH STATE <u>Ks.</u>
LEASE <u>Vernon Well # 1-12</u>				LOCATION <u>Highway + 183 Hwy 15</u>			
OFF OR NEW (Circle one)				LOCATION <u>2 1/2 mi Wink</u>			

CONTRACTOR Discovery Drilling Rig # 3 OWNER _____

TYPE OF JOB Seismic Sub

HOLE SIZE 12 1/4 T.D. 225

CASING SIZE 8 7/8 DEPTH 223.64

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15.

PERFS. _____

DISPLACEMENT 13,296.61

CEMENT AMOUNT ORDERED 150 Con 32.11
22.62

COMMON 150 @ 13.50 2025.00

POZMIX @ _____

GEL 3 @ 20.25 60.75

CHLORIDE 5 @ 57.50 287.50

ASC @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Shane, Head

917 HELPER Ken

BULK TRUCK _____

910 DRIVER Kevin

BULK TRUCK _____

_____ DRIVER _____

HANDLING 150 @ 2.25 337.50

MILEAGE 110.66 @ _____ 200.00

TOTAL 2980.25

REMARKS:

Ken 5 hrs & Candy 1 hr.

Est Circulation

Mixed 150 lbs

Cement Circulated

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 991.00

EXTRA FOOTAGE 3 @ 7.00 21.00

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

CHARGE TO: Roanig Nelson

STREET _____

TOTAL 1012.00

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment

JOB LOG

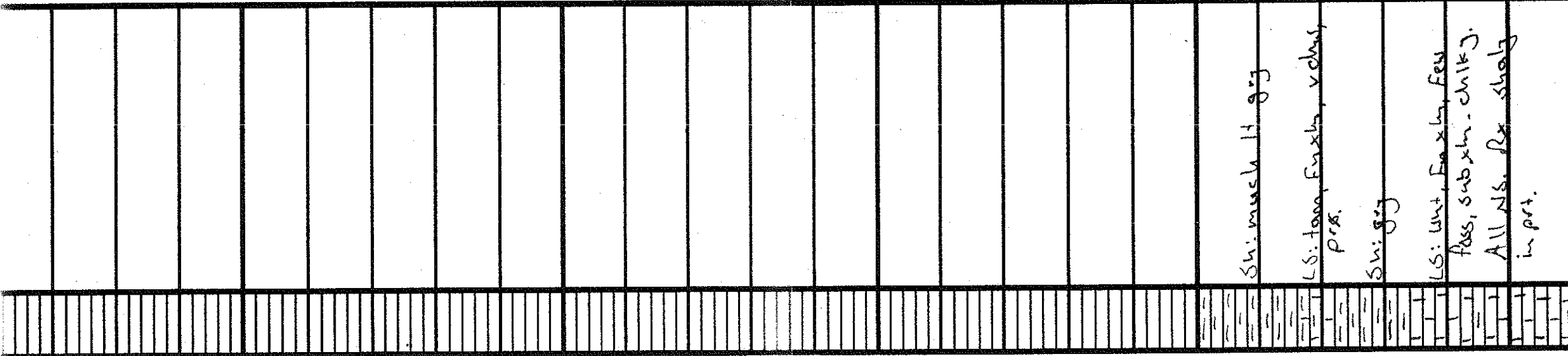
SWIFT Services, Inc.

DATE 01-10-11

PAGE NO. 1

CUSTOMER <u>DOUGLAS NELSON</u>	WELL NO. <u>1-12</u>	LEASE <u>VERVA HELL</u>	JOB TYPE <u>2-STAGE</u>	TICKET NO. <u>19278</u>
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)	CASING	DESCRIPTION OF OPERATION AND MATERIALS
				T	C			
	0230							ONLOCATION
								CMT: BOTTOM ASDS-S 520 EAR3
								TOP 18050 SMO
								R203880 SET PAPER 3877 SJ 43-03 INSET 3834
								5 1/2 H/A DIV. DTP 59, 406 FT
								CMT: 1.3.5.79.11.58 BAYETS: 59
								JENTS OUT: 78.9294, 95.97
	0300							START CS 40 FLOATED
								TAG BOTTOM - DROP BALL
	0305							BREAKING W/ RIG
	0745	5.0	12	-		300		MUD FRESH 500 GALS
			20	-				MCL "
			36.5	-				STD EA 2 CMT
			0					DROPPED PLUG, WASHOUT PL
			60.0	-		300		START DEP W/ H2O
			79.0	-		450		" " " / mud
			85.0	-		500		" " " / MCL
			90.0	-		600		
	0800		93.5	-		1400		LAND PLUG - RELEASER; -DRY
			7					DROP DIV. OPENING PART
								PLUG RH 43050S SMO
								OPEN D.U.
	0810	7.0	0	-		300		START CMT SMO
			82	-				
			0					DROP CLOSING PLUG
			15	-		300		START W/SP
			25	-				
			30	-		450		CIRC CMT TO PT 3050S
	0830		343	-		1400		CLOSE DIV. - PLUG DOWN
	0830							JOB COMPLETE
								THANK YOU!
								DAVE TRASH, FOUR



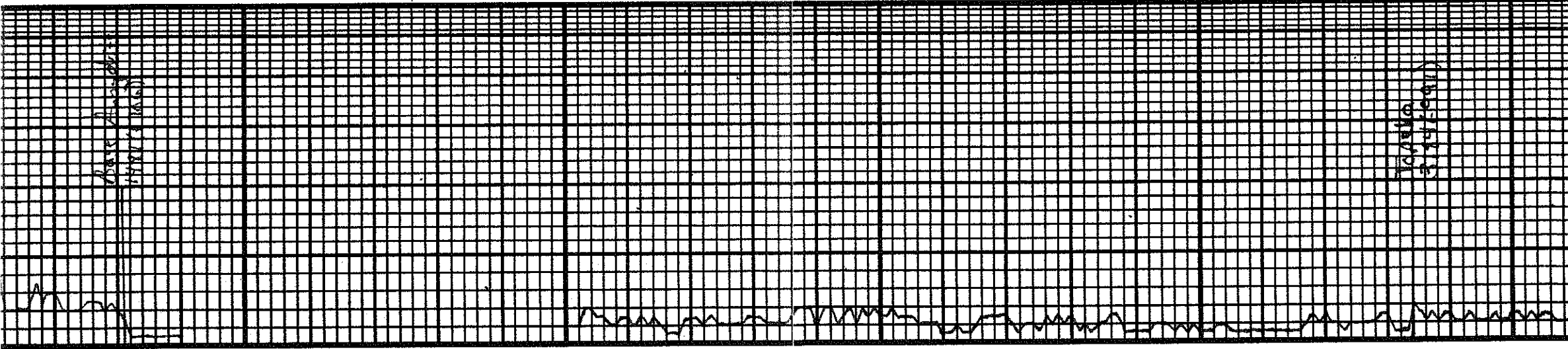
1500

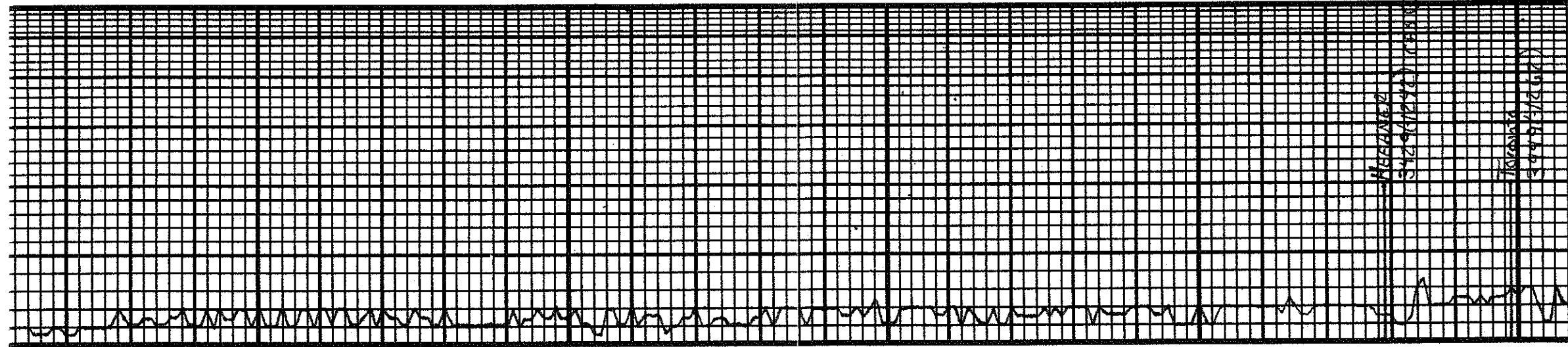
3050

3160

50

3200





Sh: grey
LS: tan-wht, fu-wd xln, fr A, sub xln. All NS.
LS: tan, trng wtd. fr int xln &, sub xln.
LS: Mostly AIA.
Sh: dk grey
LS: wht-tan, fu-wd xln, intld, fr &, sub xln, NS.
Sh: Black Carb
Sh: brn w/ red & grey
LS: lt tan, fu one xln. fr- gd int xln & 1/4 resid str. NSFO, Fut Od.
LS: wtd, fu-wd xln, strly intld. sub xln - chky, All NS.
LS: tan, fu-wd xln, fr intld str, Fut Od. NSFO
Sh: Black Carb
Sh: grey
LS: wtd - lt tan, fu-wd xln. fr owl fess. fr int fess, sub xln - chky. Tot barren.
Sh: grey
LS: Some AIA, prx w/ mrg fess. All NS w/ NSFO. fu-wd xln, str w/ few sub xln, fr intld str & vngs. Few one or. gd sat str, seat str, lt. Fr Od.
LS: tan-brn, fu-wd xln. chas w/ prx. All NS.
Sh: Black Carb
Sh: lt grey w/ brn
LS: lt tan, fu-wd xln, fr intld & prx. fr-gd sat str, spotted fess, fr Od. FO one up. fr owl chky ex.

50

3300

50

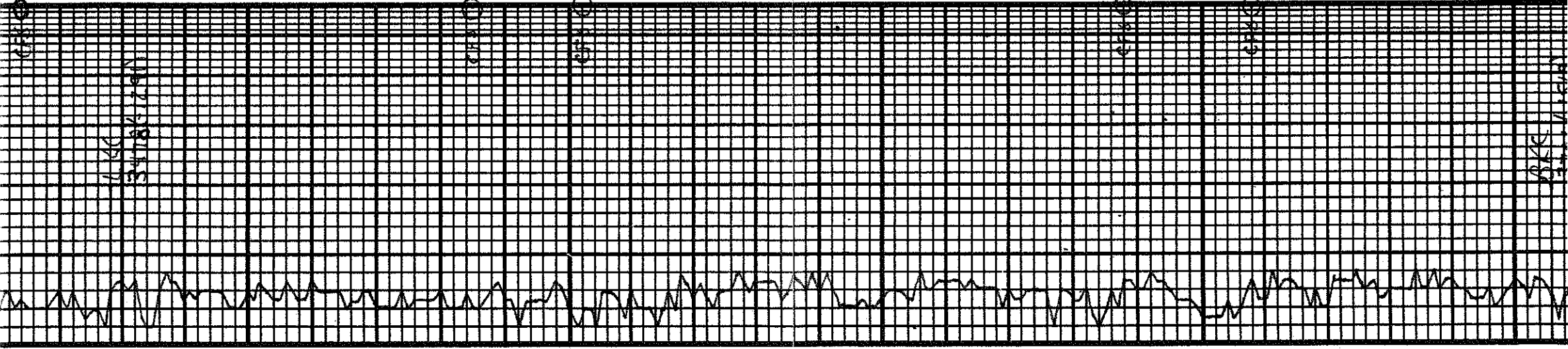
3400

50

OST # 1

OST # 2

Vis: 73 Wt: 8.7
OST # 1
3391-3433
45-45-45-45
IF-808 13 min. / 1/2" SIB
F.F-808 6 min. / 1/4" SIB
IFP: 21-32
FFP: 29-45
SIP: 1128-1110
HP: 1628-1580
RCL:
530' GIP
30' FO
60' 10' g, 55%a
BHT: 104' G=39
Vis: 53 Wt: 8.8
OST # 2
3424-3464
45-45-45-45
L.F. 2 1/4" bla
F.F. 4 1/2" bla
IFP: 19-24
FFP: 30-81
SIP: 628-254



3500

DST # 3

50

3600

DST # 4

50

DST # 5

3700

Rec:	50' GIP	20' SACM 10% 20' ACM 20% BHT: 90'
Vis: SS	Wt: 8.9	
	DST # 3	
	3512-3552	
	30-45-45-60	
	I.F. BOB 7min/Surf SIB	
	F.F. BOB 30sec/Surf SIB	
	IFP: 22-38	
	FFP: 38-58	
	SIF: 618-644	
	HP: 1699-1671	
Rec:	1120' GIP	
	55' GACM 5% 20' GAO 55% 40' GAO 30% BHT: 104'	
Vis: SS	Wt: 8.9	
	DST # 4	
	3581-3638	
	45-45-45-45	
	I.F. BOB 17min / 1/2" SIB	
	F.F. BOB 6min / 2 1/2" SIB	
	IFP: 41-45	
	FFP: 87-114	
	SIF: 810-794	
	HP: 1764-1674	
Rec:	375' GIP	
	5' FO	
	70' GACM 10% 40' GACM 40% 60' GACM 27% G=31 Chlor: 42K BHT: 109'	
	DST # 5	
	3642-3658	
	15-30-45-60	
	I.F. BOB 3 min / 1" SIB	
	F.F. BOB 30sec / 1000 15 min SIB	
	IFA: 31-37	
	FFP: 42-90	
	SIF: 878-851	
	HP: 1774-1729	
Rec:	1460' GIP	
	60' FO	
	120' GAO 30% G=35 BHT: 116'	

Sh: gy	
LS: tan-wt, fin-med xln, dms	
LS: AIA	
Sh: gy	
LS: tan-wt, fin-med xln, few sub xln ex, mostly dms w/ prg, ns.	
Sh: gy	
LS: tan, fin-med xln, Fass. dolom in prt, fr int and scat vngs, slth tite. Fr sat str, spth sfo, H od.	
Sh: dark gry-blk	
Sh: gy	
LS: wt-tan, fin-med xln, dolom. fr int xln & sandvngs, slth tite. slth, in prt. Fr-gd sat, spth sfo, fr od.	
LS: wt, fin-v fin xln, sub xln-chlk, mostly barren. 1-2 pcs w/ reid str.	
LS: wt, v fin xln, v dms w/ no vis r. wt-8ry ool str.	
Sh: gy	
Sh: gy-drk gy	
LS: tan, fin-med xln, ool. Fr int xln r, ool in prt. Fr-gd sat str, slt sfo. H od.	
LS: fmg v dms w/ prg.	
Sh: gry	
LS: tan, med xln, few Fass. fr int xln & sandvngs. Fr ben sat. Fmg sat w/ Fr oo-g. gd ben sat str, spth sfo, it. fr od.	
Sh: gy	
LS: tan, fat ool, gd Fass. friable scat chlk, ax. gd sat w/ v prg sfo when broken. Fr-gd od. prg sat on emp.	
Sh: gry	
LS: wt, fin xln, fr int xln. few ool vngs, spth sfo, no few sat pcs. fr sub xln, no od. Fmg v dms w/ prg.	
Sh: gry	
LS: wt-cum, fin-med xln, slth med. sub xln, scat fr int xln. 2-3 pcs w/ fr str. rare sfo, fr od.	

LS: tan-wt, fin-med xln, dms

LS: tan-wt, fin-med xln, few sub xln ex, mostly dms w/ prg, ns.

LS: tan, fin-med xln, Fass. dolom in prt, fr int and scat vngs, slth tite. Fr sat str, spth sfo, H od.

LS: wt-tan, fin-med xln, dolom. fr int xln & sandvngs, slth tite. slth, in prt. Fr-gd sat, spth sfo, fr od.

LS: wt, fin-v fin xln, sub xln-chlk, mostly barren. 1-2 pcs w/ reid str.

LS: wt, v fin xln, v dms w/ no vis r. wt-8ry ool str.

LS: tan, fin-med xln, ool. Fr int xln r, ool in prt. Fr-gd sat str, slt sfo. H od.

LS: fmg v dms w/ prg.

LS: tan, med xln, few Fass. fr int xln & sandvngs. Fr ben sat. Fmg sat w/ Fr oo-g. gd ben sat str, spth sfo, it. fr od.

LS: tan, fat ool, gd Fass. friable scat chlk, ax. gd sat w/ v prg sfo when broken. Fr-gd od. prg sat on emp.

LS: wt, fin xln, fr int xln. few ool vngs, spth sfo, no few sat pcs. fr sub xln, no od. Fmg v dms w/ prg.

LS: wt-cum, fin-med xln, slth med. sub xln, scat fr int xln. 2-3 pcs w/ fr str. rare sfo, fr od.

