



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1182975
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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
- Plug Back Conv. to GSW Conv. to Producer
- 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

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1182975

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7045

Date <u>1-11-14</u>	Sec. <u>18</u>	Twp. <u>9</u>	Range <u>23</u>	County <u>Graham</u>	State <u>KS</u>	On Location	Finish <u>730</u>
---------------------	----------------	---------------	-----------------	----------------------	-----------------	-------------	-------------------

Location Wakeeey Realine SW 220 2 1/8 N E into

Lease <u>CMKL</u>	Well No. <u>1-18</u>	Owner
Contractor <u>Discovery #1</u>		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.
Type Job <u>Surface</u>		
Hole Size <u>12 1/4</u>	T.D. <u>219'</u>	Charge To <u>Downing Nelson</u>
Csg. <u>8 5/8</u>	Depth <u>219'</u>	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <u>20'</u>	Shoe Joint	Cement Amount Ordered <u>150 com 3% cc 2% bel</u>
Meas Line	Displace <u>12 3/4 bbl</u>	

EQUIPMENT

Pumptrk <u>17</u> No.	Cementer Helper <u>Craig</u>	Common <u>150</u>
Bulktrk <u>9</u> No.	Driver <u>Doug</u>	Poz. Mix
Bulktrk <u>Pu</u> No.	Driver <u>Brett</u>	Gel. <u>3</u>
		Calcium <u>5</u>

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <u>158</u>
	Mileage

FLOAT EQUIPMENT

<u>Cement</u>	Guide Shoe
	Centralizer
	Baskets
<u>Circulated!!</u>	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge Surface
Mileage 41

X Signature W. Marshall

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7054

Date	1-16-14	Sec.	18	Twp.	9	Range	23	County	Graham	State	KS	On Location		Finish	11:30 P.M.
Lease								Location							
CKML								Well No. 1-18				Owner			
Contractor								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.			
Discovery #1								Charge To				Downing Nelson			
Type Job								T.D.				Street			
Plug								Depth				City			
Hole Size								Depth				State			
7 7/8								2075'				The above was done to satisfaction and supervision of owner agent or contractor.			
Csg. Drill Pipe								Shoe Joint				Cement Amount Ordered			
Tbg. Size								Cement Amount Ordered				220 6 3/4 4 1/2 w/ 1/4 flow			
Tool								Cement Left in Csg.							
Meas Line								Displace							
EQUIPMENT								Common				132			
Pumptrk 18 No. Cementer								Poz. Mix				88			
Helper Cody								Gel.				8			
Bulktrk 14 No. Driver								Calcium							
Driver Lonnie M								Hulls							
Bulktrk Du No. Driver								Salt							
Driver Brett								Flowseal				50ft			
JOB SERVICES & REMARKS								Kol-Seal				⊗			
Remarks:								Mud CLR 48							
Rat Hole 30sx								CFL-117 or CD110 CAF 38							
Mouse Hole 15sx								Sand							
Centralizers								Handling				228			
Baskets								Mileage							
D/V or Port Collar								FLOAT EQUIPMENT							
1st Plug @ 2075 w/ 25 sks								Guide Shoe							
2nd Plug @ 1215 w/ 100 sks								Centralizer							
3rd Plug @ 270 w/ 40 sks								Baskets							
4th Plug @ 40 w/ 10 sks								AFU Inserts							
Quality Oilwell Cementing								Float Shoe							
								Latch Down							
								1 8 3/8 wooden plug							
								Pumptrk Charge				plug			
								Mileage				41			
								Tax							
								Discount							
								Total Charge							
Signature															

X Signature *[Handwritten Signature]*



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

CMKL 1-18

18-9s-23w Graham KS

Start Date: 2014.01.15 @ 04:14:00

End Date: 2014.01.15 @ 10:23:15

Job Ticket #: 56054 DST #: 1

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

Printed: 2014.01.17 @ 14:12:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

18-9s-23w Graham KS

PO Box 1019
Hays, KS 67601

CMKL 1-18

Job Ticket: 56054

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.01.15 @ 04:14:00

GENERAL INFORMATION:

Formation: **LKC "C+D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:50:15

Time Test Ended: 10:23:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3780.00 ft (KB) To 3825.00 ft (KB) (TVD)

Reference Elevations: 2406.00 ft (KB)

Total Depth: 3825.00 ft (KB) (TVD)

2398.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6799

Inside

Press@RunDepth: 31.51 psig @ 3819.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.15

End Date:

2014.01.15

Last Calib.:

2014.01.15

Start Time: 04:14:05

End Time:

10:23:14

Time On Btm:

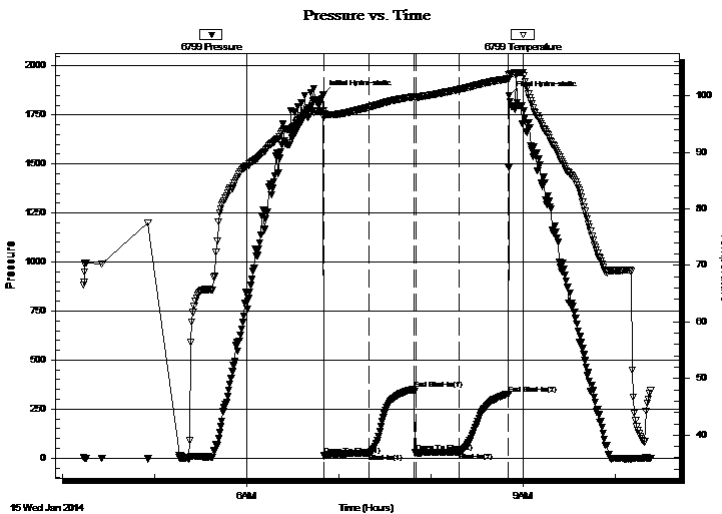
2014.01.15 @ 06:50:00

Time Off Btm:

2014.01.15 @ 08:51:00

TEST COMMENT: 30 - IF- 1 3/4" blow
30 - IS- No return
30 - FF-1" blow
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1854.80	97.25	Initial Hydro-static
1	11.73	96.10	Open To Flow (1)
30	25.31	98.00	Shut-In(1)
59	350.66	99.84	End Shut-In(1)
61	27.06	99.73	Open To Flow (2)
89	31.51	101.12	Shut-In(2)
121	327.28	102.97	End Shut-In(2)
121	1850.12	103.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	SOCM, 5%O, 95%M	0.36
10.00	OCM, 20%O, 80%M	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

18-9s-23w Graham KS

PO Box 1019
Hays, KS 67601

CMKL 1-18

Job Ticket: 56054

DST#: 1

ATTN: Marc Downing

Test Start: 2014.01.15 @ 04:14:00

Tool Information

Drill Pipe:	Length: 3757.00 ft	Diameter: 3.80 inches	Volume: 52.70 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 52.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3780.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	66.00 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			3760.00	
Shut In Tool	5.00			3765.00	
Hydraulic tool	5.00			3770.00	
Packer	5.00			3775.00	21.00 Bottom Of Top Packer
Packer	5.00			3780.00	
Stubb	1.00			3781.00	
Perforations	5.00			3786.00	
Change Over Sub	1.00			3787.00	
Drill Pipe	31.00			3818.00	
Change Over Sub	1.00			3819.00	
Recorder	0.00	6799	Inside	3819.00	
Recorder	0.00	8648	Outside	3819.00	
Perforations	3.00			3822.00	
Bullnose	3.00			3825.00	45.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

18-9s-23w Graham KS

PO Box 1019
Hays, KS 67601

CMKL 1-18

Job Ticket: 56054

DST#: 1

ATTN: Marc Downing

Test Start: 2014.01.15 @ 04:14:00

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: 59.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.59 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
45.00	SOCM, 5%O, 95%M	0.358
10.00	OCM, 20%O, 80%M	0.140

Total Length: 55.00 ft Total Volume: 0.498 bbl

Num Fluid Samples: 0

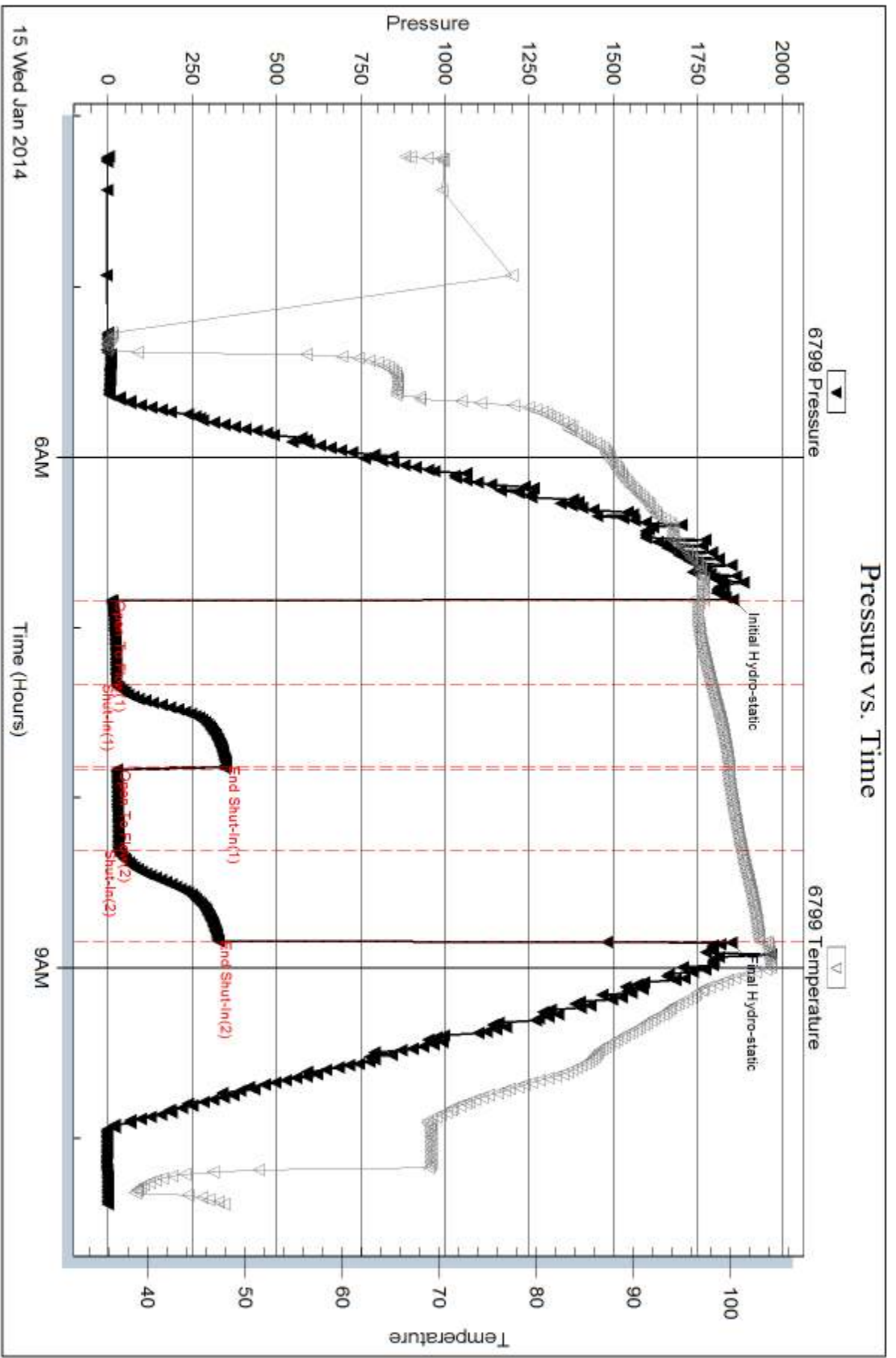
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

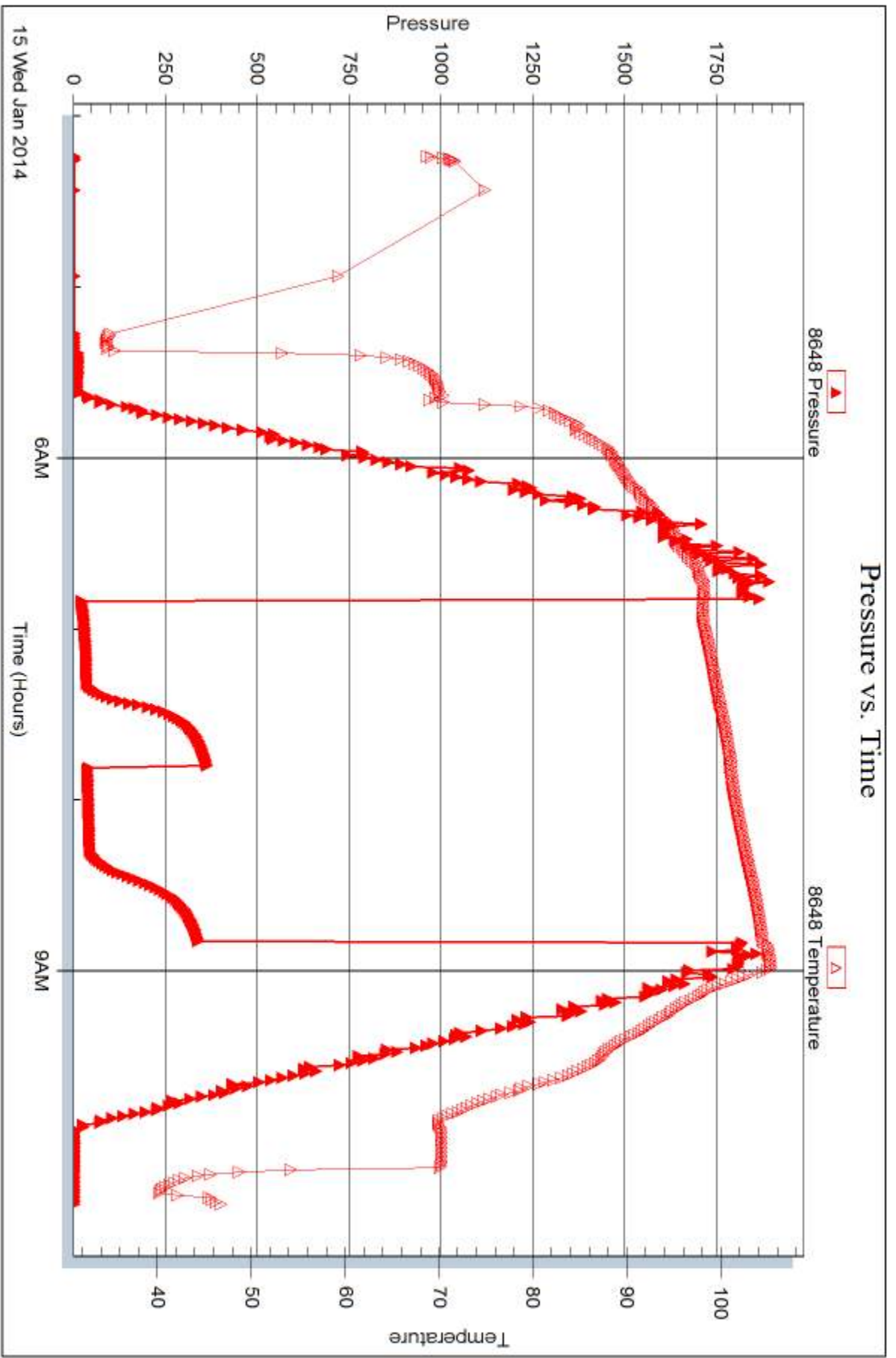


Serial #: 8648

Outside Dow ning Nelson Oil Co

CMKL 1-18

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56054

Printed: 2014.01.17 @ 14:12:38



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

CMKL 1-18

18-9s-23w Graham KS

Start Date: 2014.01.16 @ 09:00:00

End Date: 2014.01.16 @ 16:28:30

Job Ticket #: 56055 DST #: 2

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

Printed: 2014.01.17 @ 14:11:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

18-9s-23w Graham KS

PO Box 1019
Hays, KS 67601

CMKL 1-18

Job Ticket: 56055

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.01.16 @ 09:00:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:49:30

Time Test Ended: 16:28:30

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3870.00 ft (KB) To 3976.00 ft (KB) (TVD)

Reference Elevations: 2406.00 ft (KB)

Total Depth: 4024.00 ft (KB) (TVD)

2398.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Outside

Press@RunDepth: 33.51 psig @ 3875.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.16

End Date:

2014.01.16

Last Calib.:

2014.01.16

Start Time: 09:00:05

End Time:

16:28:29

Time On Btm:

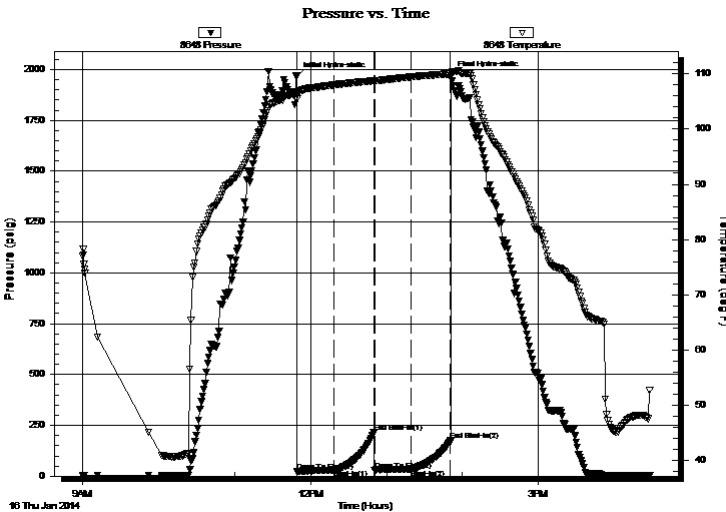
2014.01.16 @ 11:49:15

Time Off Btm:

2014.01.16 @ 13:51:15

TEST COMMENT: 30 - IF- 1" blow
30 - IS- No return
30 - FF- 1 1/4" blow
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.12	106.51	Initial Hydro-static
1	21.96	105.54	Open To Flow (1)
30	31.37	108.03	Shut-In(1)
61	214.36	108.77	End Shut-In(1)
62	27.74	108.68	Open To Flow (2)
90	33.51	109.45	Shut-In(2)
122	174.77	110.02	End Shut-In(2)
122	1969.20	110.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	SOCM, 5%O, 95%M	0.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co

18-9s-23w Graham KS

PO Box 1019
Hays, KS 67601

CMKL 1-18

Job Ticket: 56055

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.01.16 @ 09:00:00

Tool Information

Drill Pipe:	Length: 3824.00 ft	Diameter: 3.80 inches	Volume: 53.64 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 53.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3870.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3976.00 ft			
Interval betw een Packers:	106.00 ft			
Tool Length:	178.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3850.00	
Shut In Tool	5.00			3855.00	
Hydraulic tool	5.00			3860.00	
Packer	5.00			3865.00	21.00 Bottom Of Top Packer
Packer	5.00			3870.00	
Stubb	1.00			3871.00	
Perforations	3.00			3874.00	
Change Over Sub	1.00			3875.00	
Recorder	0.00	6799	Inside	3875.00	
Recorder	0.00	8648	Outside	3875.00	
Drill Pipe	93.00			3968.00	
Change Over Sub	1.00			3969.00	
Perforations	6.00			3975.00	
Blank Off Sub	1.00			3976.00	106.00 Tool Interval
Packer	4.00			3980.00	
Change Over Sub	1.00			3981.00	
Drill Pipe	31.00			4012.00	
Change Over Sub	1.00			4013.00	
Recorder	0.00	8655	Below	4013.00	
Perforations	11.00			4024.00	
Bullnose	3.00			4027.00	51.00 Bottom Packers & Anchor

Total Tool Length: 178.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

18-9s-23w Graham KS

PO Box 1019
Hays, KS 67601

CMKL 1-18

Job Ticket: 56055

DST#: 2

ATTN: Marc Downing

Test Start: 2014.01.16 @ 09:00:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 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 bbbl
40.00	SOCM, 5%O, 95%M	0.288

Total Length: 40.00 ft Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

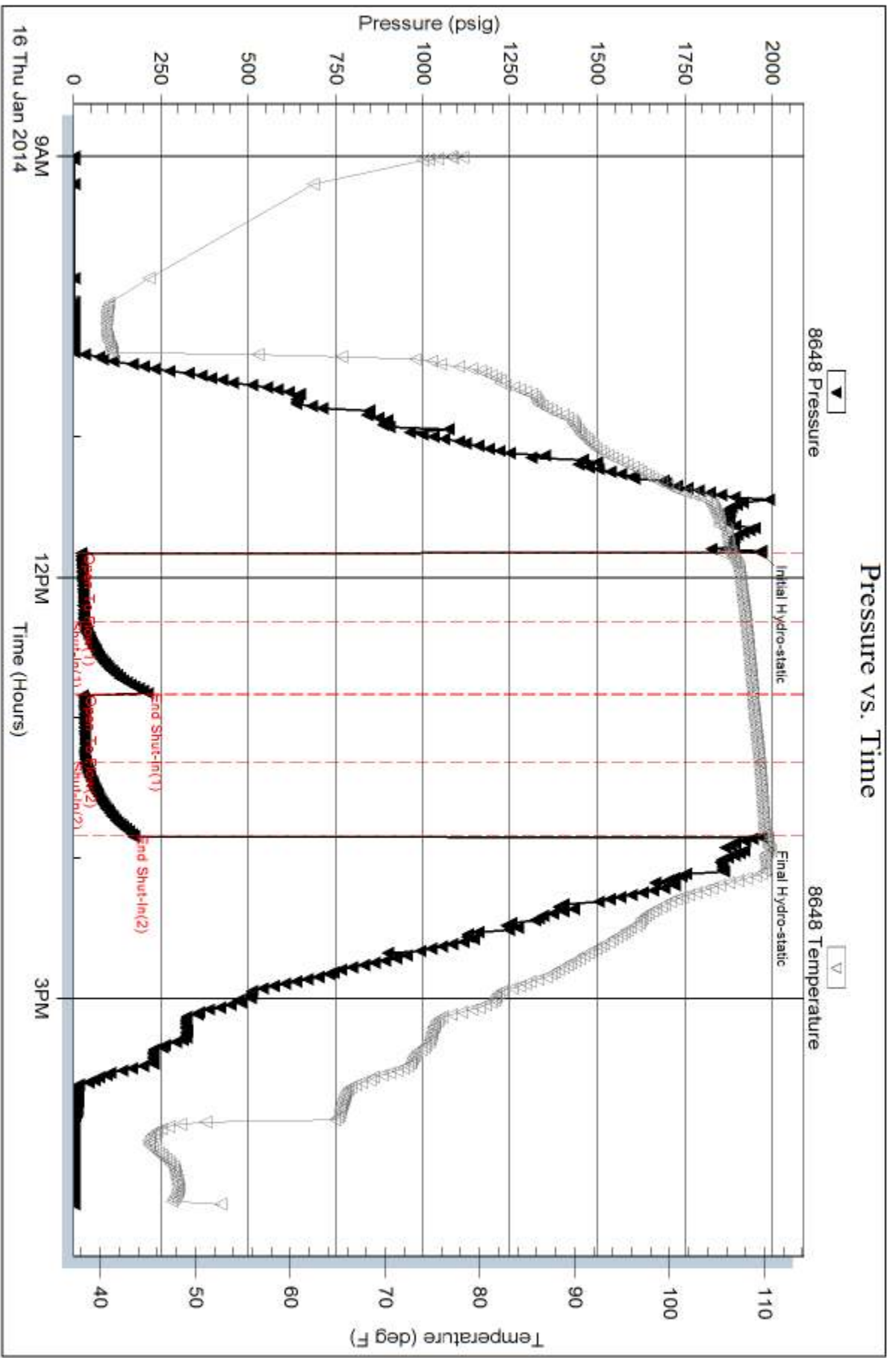
Recovery Comments:

Serial #: 8648

Outside Dow n ing Nelson Oil Co

CMKL 1-18

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 56055

Printed: 2014.01.17 @ 14:11:59

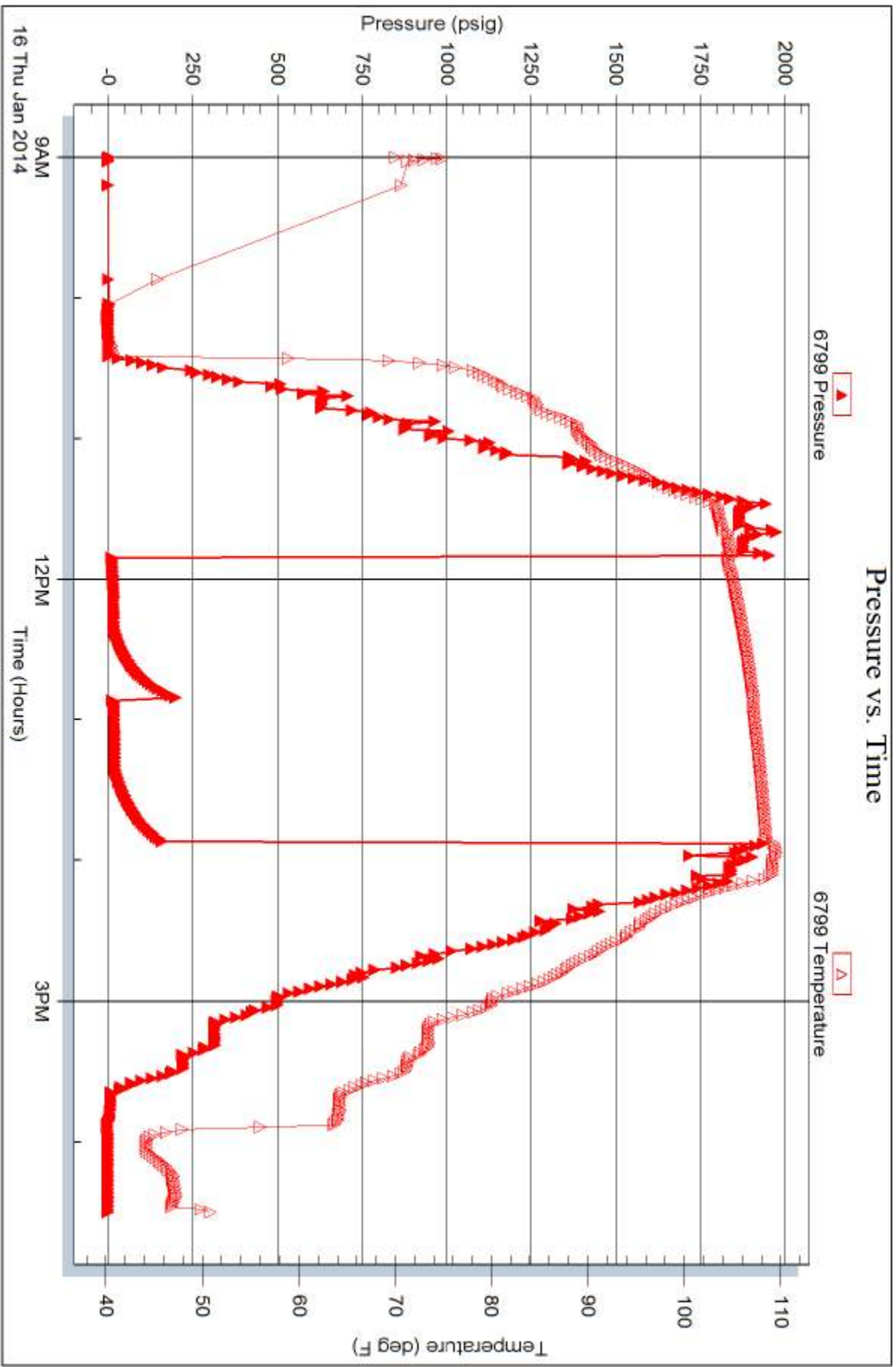
Serial #: 6799

Inside

Dow nng Nelson Oil Co

CMKL 1-18

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 56055

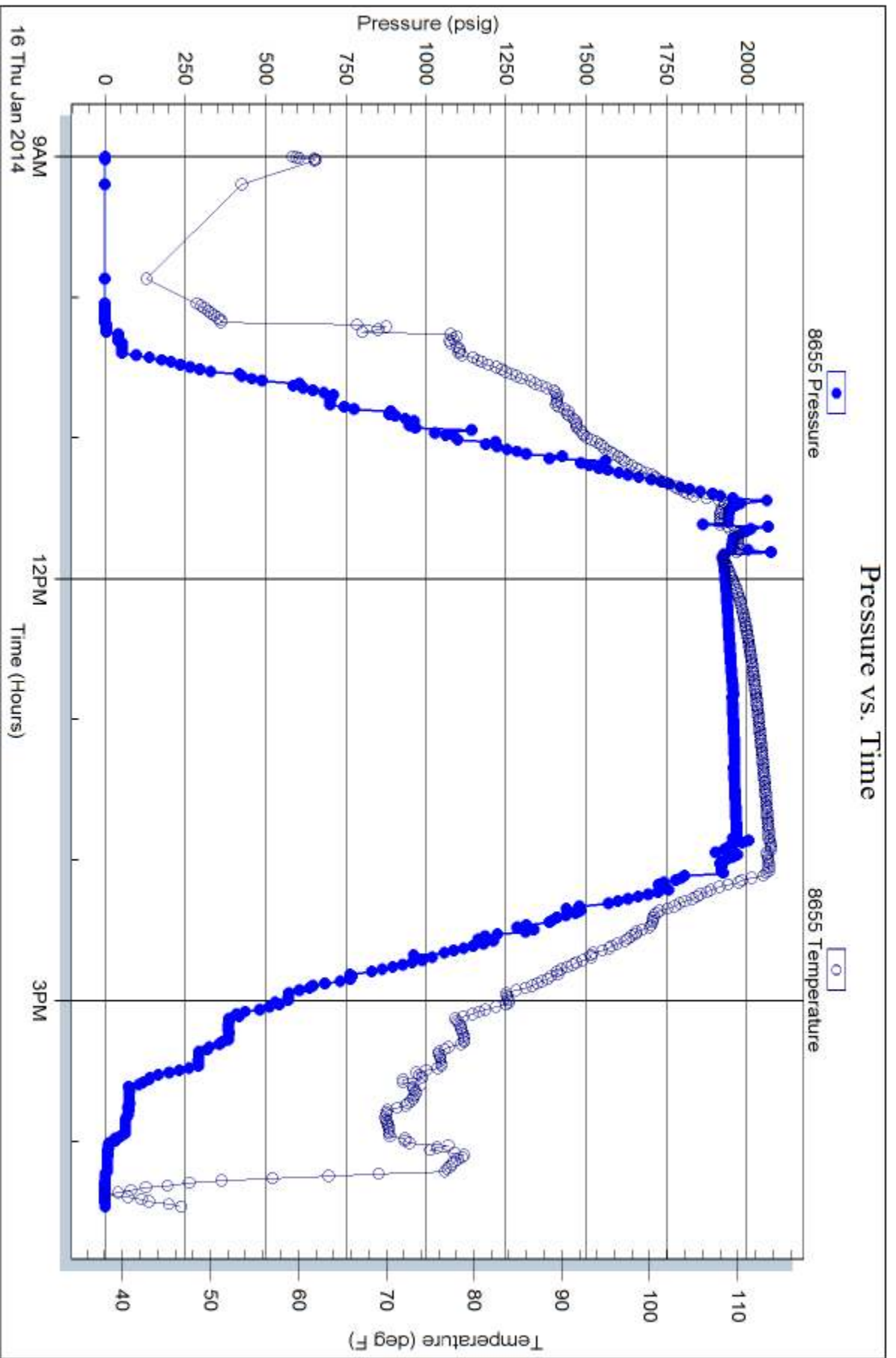
Printed: 2014.01.17 @ 14:12:00

Serial #: 8655

Below (Stratton) Nelson Oil Co

CMKL 1-18

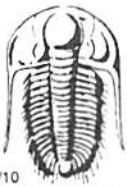
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56055

Printed: 2014.01.17 @ 14:12:00



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56054**

Well Name & No. CMKL 1-18 Test No. 1 Date 1-15-14
 Company Downing-Nelson oil Co Elevation 2406 KB 2401 GL
 Address Po Box 1019, Hays KS. 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 18 Twp. 9S Rge. 23W Co. Graham State Ks

Interval Tested 3780 - 3825 Zone Tested LKC "C&D"
 Anchor Length 45' Drill Pipe Run 3757 Mud Wt. 8.7
 Top Packer Depth 3775 Drill Collars Run 30' Vis 59
 Bottom Packer Depth 3780 Wt. Pipe Run - WL 7.6
 Total Depth 3825 Chlorides 1500 ppm System LCM -
 Blow Description IF-1.75" blow
ISI- No return
FF-1" blow
FSI- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>50CM</u>	<u>5</u>		<u>95</u>	
<u>10</u>	<u>OCM</u>	<u>20</u>		<u>80</u>	

Rec Total 55 BHT 102° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1854 Test 1150 T-On Location 0335
 (B) First Initial Flow 11 Jars - T-Started 0414
 (C) First Final Flow 25 Safety Joint - T-Open 0650
 (D) Initial Shut-In 350 Circ Sub - T-Pulled 0850
 (E) Second Initial Flow 27 Hourly Standby - T-Out 10:25
 (F) Second Final Flow 31 Mileage 119RT 184.45
 (G) Final Shut-In 327 Sampler -
 (H) Final Hydrostatic 1850 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Initial Open 30 Extra Recorder - Sub Total 0
 Initial Shut-In 30 Day Standby - Total 1334.45
 Final Flow 30 Accessibility - MP/DST Disc't -
 Final Shut-In 30 Sub Total 1334.45

Approved By _____

Our Representative Cody Rejn

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. 56055

Well Name & No. CMKL 1-18 Test No. 2 Date 1-16-14
 Company Downing-Nelson oil Co Elevation 2406 KB 2398 GL
 Address Po Box 1019, Hays KS, 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 18 Twp. 9s Rge. 23w Co. Graham State KS

Interval Tested 3870 - 3976 TD=4024 Zone Tested _____
 Anchor Length 106' 48' tail Drill Pipe Run 3824' Mud Wt. 8.7
 Top Packer Depth 3865' Drill Collars Run 30' Vis 59
 Bottom Packer Depth 3870 Wt. Pipe Run _____ WL 7.6
 Total Depth 3976 Chlorides 1500 ppm System LCM _____

Blow Description IF-1" blow
ISI- No return
FF-1.25" blow
FSI- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>50CM</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

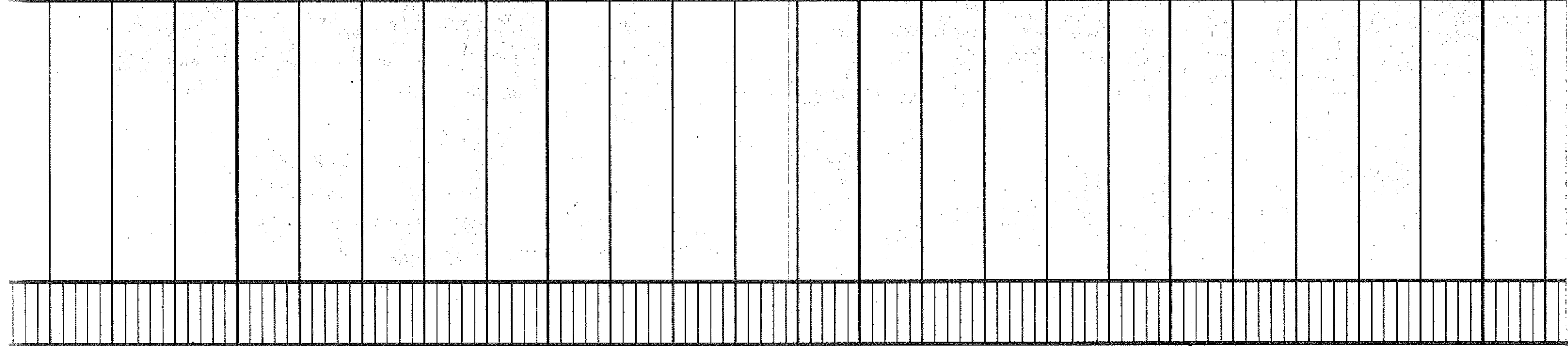
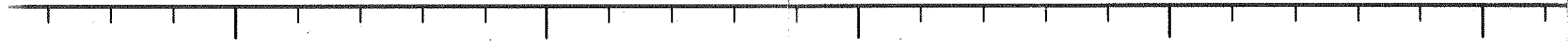
Rec Total 40' BHT 110° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1967 Test 1250 T-On Location 0819
 (B) First Initial Flow 21 Jars _____ T-Started 0900
 (C) First Final Flow 31 Safety Joint _____ T-Open 1150
 (D) Initial Shut-In 214 Circ Sub _____ T-Pulled 1350
 (E) Second Initial Flow 27 Hourly Standby _____ T-Out 1630
 (F) Second Final Flow 33 Mileage 119RT 184.45 Comments _____
 (G) Final Shut-In 174 Sampler _____
 (H) Final Hydrostatic 1969 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 2034.45
 Final Shut-In 30 Accessibility _____ MP/DST Disc't _____
 Sub Total 2034.45

Approved By _____ Our Representative Cody Black

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.



2100

3400

50

3500

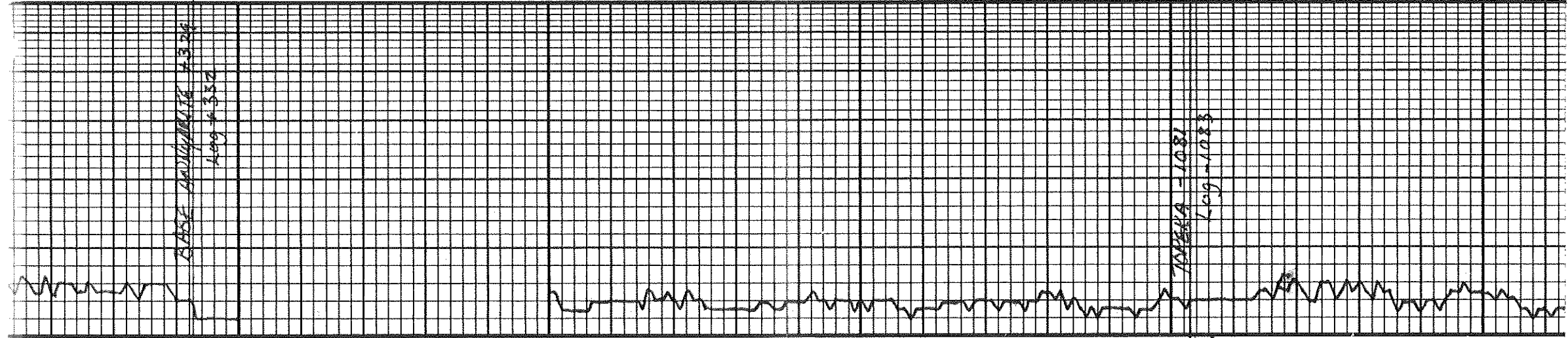
50

BASE ANOMALY +3.2%

Log-1081

BASE ANOMALY -10.81

Log-1083



3600

50

3700

50

3800

HCEBNER

3722-1324

LOG - 1300

PARONIA - 1324

LOG - 1324

ARCA - 1324

LOG - 1324

DST #1
 3780 - 3825'
 30" 30" 30" 30"
 1500' 1 3/4" BLOW
 2.25 op 1" BLOW
 I.F.P. 11-25
 F.F.P. 27-31
 S.I.P. 350-327
 H.P. 1654-1850
 REC. 10.20.00

DST #1

Sh: Black Carb

Sh: brn col 14 gra

LS: whit, med xln sel fass
pex, tom crista

Sh: ggy sel brn

LS: whit, f-xln, scat fass
Peb tang cms + Na

visc, AS

Dns manus

Sh: brn

gry

LS: whit, f-xln, scat fass, fr-
gd vng, scat life cr. fr. gd
8 ton sel fr. gd SFO, g. 80d.

LS: whit, f-xln, few cr. AIA
pass carry: Tang substra-

