



KANSAS CORPORATION COMMISSION 1074150
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 # 30717
Name: Downing-Nelson Oil Co Inc
Address 1: PO BOX 1019
Address 2: _____
City: HAYS State: KS Zip: 67601 + _____
Contact Person: Ron Nelson
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Marc Downing
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 #: _____
01/23/2012 01/30/2012 01/31/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-145-21664-00-00
Spot Description: _____
S2 SW NW SE Sec. 18 Twp. 20 S. R. 20 East West
1410 Feet from North / South Line of Section
2310 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Pawnee
Lease Name: Marvin Saxton Well #: 2-18
Field Name: Wildcat
Producing Formation: None
Elevation: Ground: 2201 Kelly Bushing: 2209
Total Depth: 4500 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 520 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: 16000 ppm Fluid volume: 320 bbls
Dewatering method used: Evaporated
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: Deanne Garbar Date: 03/12/2012



1074150

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Marvin Saxton Well #: 2-18
 Sec. 18 Twp. 20 S. R. 20 East West County: Pawnee

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

CASING RECORD <input checked="" 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
Surface Pipe	12.25	8.625	23	520	Common	250	2% Gel & 3% CC

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Marvin Saxton 2-18
Doc ID	1074150

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Neutron / Density

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Marvin Saxton 2-18
Doc ID	1074150

Tops

Top Anhydrite	1394'	+815
Base Anhydrite	1422'	+787
Heebner	3715'	-1506
LKC	3764'	-1555
BKC	4076'	-1867
Fort Scott	4264'	-2055
Cherokee Shale	4276'	-2114
Cherokee Sand	4323'	-2138
Mississippi	4347'	-2138
Osage	4373'	-2164
Gilmore City	4403'	-2194

QUALITY OILWELL CEMENTING, INC.

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

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

No. 452

Date	1-24-12	Sec.	18	Twp.	20	Range	20	County	Pawnee	State	Kansas	On Location	Finish
Lease	Marvin Sexton			Well No.	2-18			Location	Alexander HS 1 1/2 W Vista				
Contractor	Discovery Drilling Rig 4							Owner	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	Surface							Charge To	Danning Nelson				
Hole Size	12 1/4			T.D.	520			Street					
Csg.	8 3/8 23lb			Depth	520			City	State				
Tbg. Size								Depth					
Tool								Depth					
Cement Left in Csg.	10-15'			Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line				Displace	32 1/4			Cement Amount Ordered	250 Common				

EQUIPMENT

Pumptrk	9	No.	Cementer	Steve	3800 2 1/2" 2 1/2"	Common	250
Bulktrk	8	No.	Driver	Paul	Poz. Mix		
Bulktrk		No.	Driver	Michael	Gel.	5	

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

Cement and Circulate

Sand	Handling 264
	Mileage

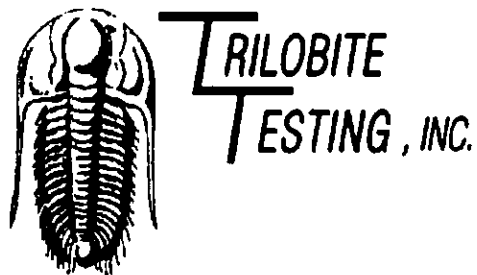
FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Long Surface
Mileage	33

Tax	
Discount	
Total Charge	

X Signature



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co. Inc.**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Marvin Saxton #2-18

18-20s-20w Pawnee,KS

Start Date: 2012.01.29 @ 08:30:07

End Date: 2012.01.29 @ 14:38:07

Job Ticket #: 46858 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.01 @ 13:07:44



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

18-20s-20w Pawnee, KS

PO Box 1019
Hays KS 67601

Marvin Saxton #2-18

Job Ticket: 46858

DST#: 1

ATTN: Marc Downing

Test Start: 2012.01.29 @ 08:30:07

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 10:49:37

Time Test Ended: 14:38:07

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Brett Dickinson**

Unit No: **59**

Interval: **4290.00 ft (KB) To 4356.00 ft (KB) (TVD)**

Reference Elevations: **2211.00 ft (KB)**

Total Depth: **4356.00 ft (KB) (TVD)**

2203.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **8.00 ft**

Serial #: **6753**

Inside

Press@RunDepth: **36.49 psig @ 4291.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.01.29**

End Date:

2012.01.29

Last Calib.: **2012.01.29**

Start Time: **08:30:12**

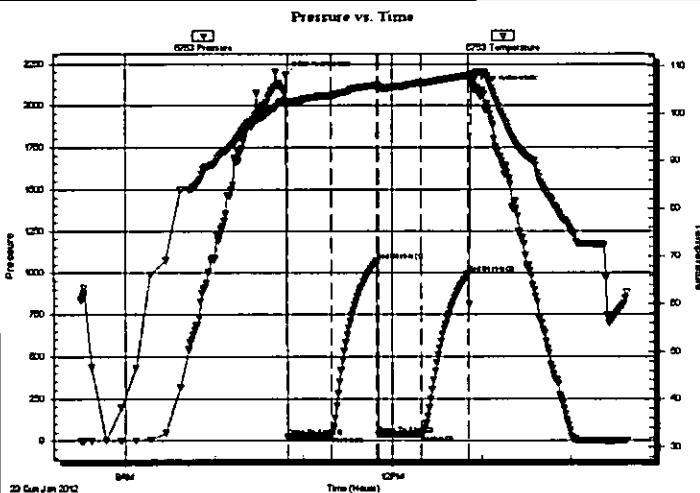
End Time:

14:38:06

Time On Btm: **2012.01.29 @ 10:48:37**

Time Off Btm: **2012.01.29 @ 12:54:37**

TEST COMMENT: IF-3/4" blow
IS-No blow
FF-Very weak surface blow
FS-No blow



PRESSURE SUMMARY

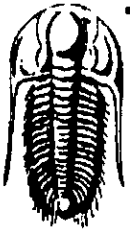
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.18	102.55	Initial Hydro-static
1	24.97	101.86	Open To Flow (1)
30	31.00	103.69	Shut-In(1)
61	1071.94	105.87	End Shut-In(1)
62	35.93	105.52	Open To Flow (2)
91	36.49	106.45	Shut-In(2)
123	994.92	107.97	End Shut-In(2)
126	2096.73	108.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOOM 5%O 95%M	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co. Inc.

18-20s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Marvin Saxton #2-18

Job Ticket: 46858

DST#: 1

ATTN: Marc Downing

Test Start: 2012.01.29 @ 08:30:07

Tool Information

Drill Pipe:	Length: 4266.00 ft	Diameter: 3.80 inches	Volume: 59.84 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4290.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 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			4263.00	
Shut In Tool	5.00			4268.00	
Hydraulic tool	5.00			4273.00	
Jars	5.00			4278.00	
Safety Joint	2.00			4280.00	
Packer	5.00			4285.00	28.00 Bottom Of Top Packer
Packer	5.00			4290.00	
Stubb	1.00			4291.00	
Recorder	0.00	6753	Inside	4291.00	
Recorder	0.00	8319	Outside	4291.00	
Perforations	4.00			4295.00	
Change Over Sub	1.00			4296.00	
Drill Pipe	31.00			4327.00	
Change Over Sub	1.00			4328.00	
Perforations	25.00			4353.00	
Bullnose	3.00			4356.00	66.00 Bottom Packers & Anchor
Total Tool Length:	94.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

18-20s-20w Pawnee, KS

PO Box 1019
Hays KS 67601

Marvin Saxton #2-18

Job Ticket: 46858

DST#: 1

ATTN: Marc Downing

Test Start: 2012.01.29 @ 08:30:07

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:

bbf

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	VSOOM 5%O 95%M	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbf

Num Fluid Samples: 0

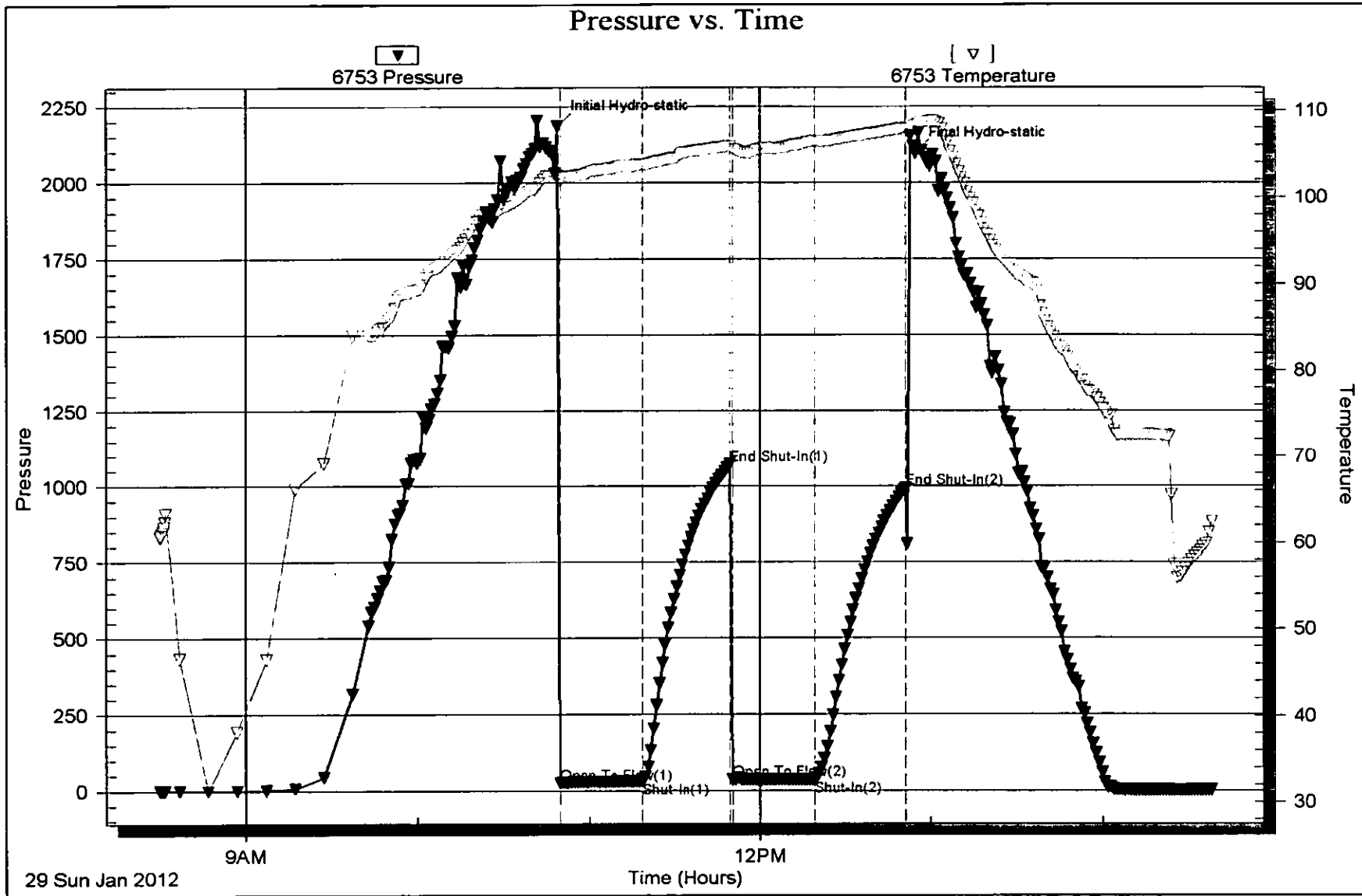
Num Gas Bombs: 0

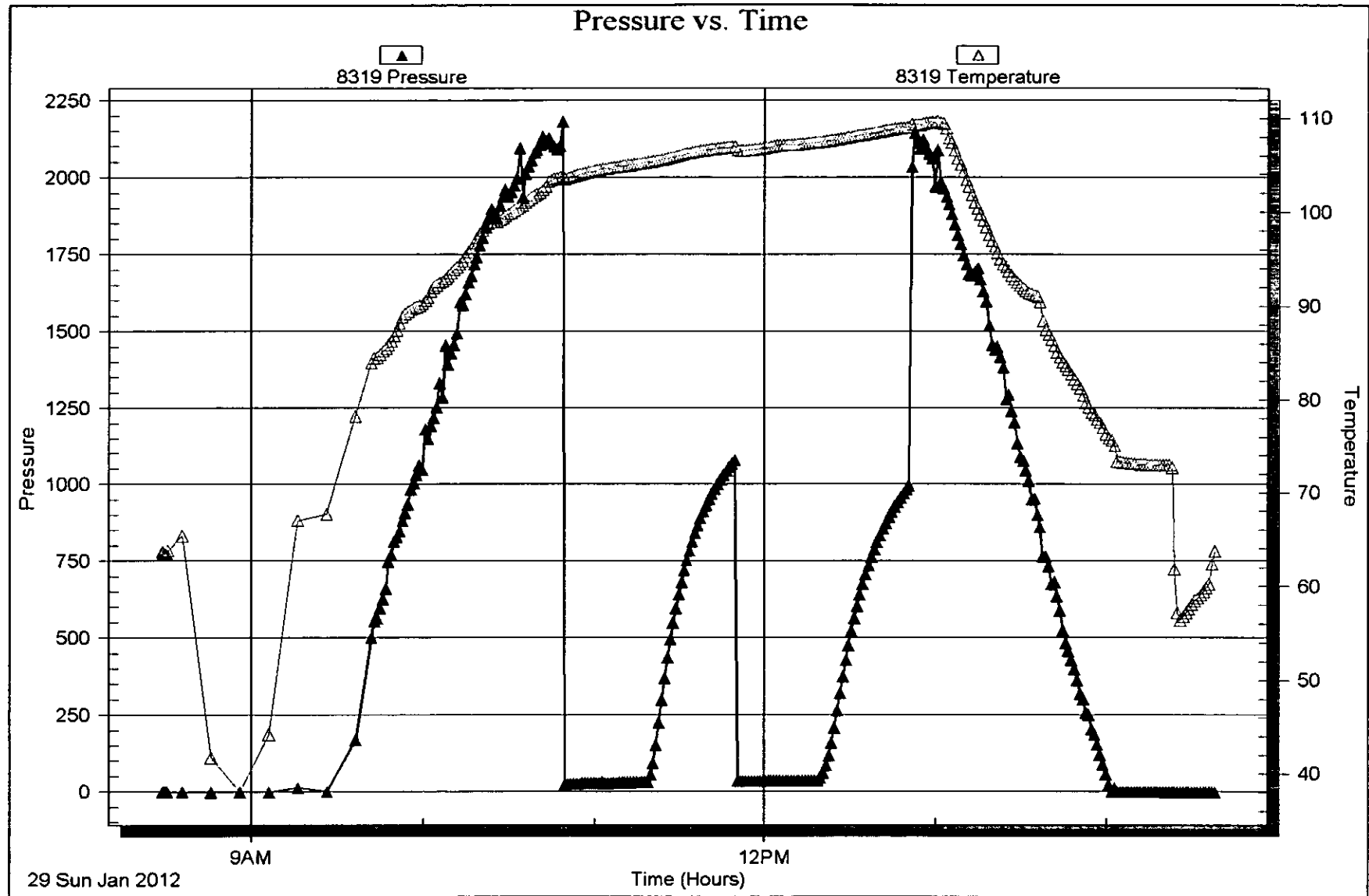
Serial #:

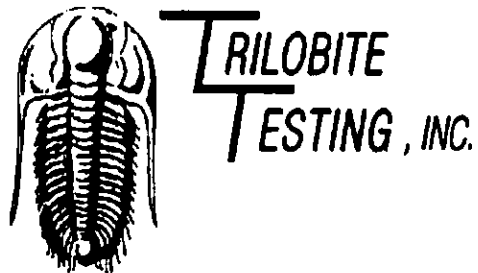
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co. Inc.**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Marvin Saxton #2-18

18-20s-20w Pawnee,KS

Start Date: 2012.01.29 @ 21:15:40

End Date: 2012.01.30 @ 03:47:10

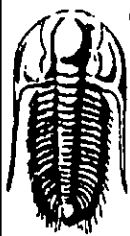
Job Ticket #: 46859 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.01 @ 13:06:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

18-20s-20w Pawnee, KS

PO Box 1019
Hays KS 67601

Marvin Saxton #2-18

Job Ticket: 46859

DST#: 2

ATTN: Marc Downing

Test Start: 2012.01.29 @ 21:15:40

GENERAL INFORMATION:

Formation: **Miss**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 00:03:40

Time Test Ended: 03:47:10

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Brett Dickinson**

Unit No: **59**

Interval: **4353.00 ft (KB) To 4371.00 ft (KB) (TVD)**

Total Depth: **4371.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2211.00 ft (KB)**

2203.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: **6753**

Inside

Press@RunDepth: **31.99 psig @ 4354.00 ft (KB)**

Start Date: **2012.01.29**

End Date:

2012.01.30

Start Time: **21:15:45**

End Time:

03:47:09

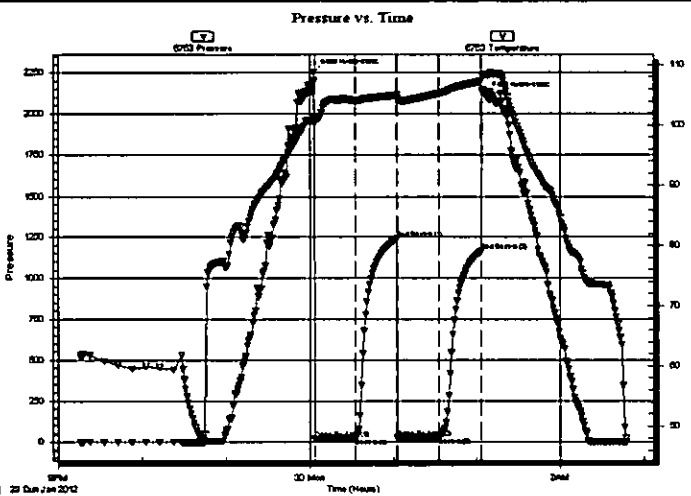
Capacity: **8000.00 psig**

Last Calib.: **2012.01.30**

Time On Btm: **2012.01.30 @ 00:02:40**

Time Off Btm: **2012.01.30 @ 02:06:40**

TEST COMMENT: **F-Very weak surface blow**
IS-No blow
FF-Very weak surface blow
FSl-No blow



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2252.12	101.03	Initial Hydro-static
1	20.18	100.30	Open To Flow (1)
30	24.28	104.08	Shut-In(1)
60	1241.22	104.95	End Shut-In(1)
61	27.75	104.46	Open To Flow (2)
91	31.99	105.23	Shut-In(2)
121	1162.55	107.24	End Shut-In(2)
124	2110.50	108.36	Final Hydro-static

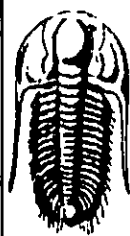
Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOOM 5%O 95%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co. Inc.

18-20s-20w Pawnee, KS

PO Box 1019
Hays KS 67601

Marvin Saxton #2-18

Job Ticket: 46859

DST#: 2

ATTN: Marc Downing

Test Start: 2012.01.29 @ 21:15:40

Tool Information

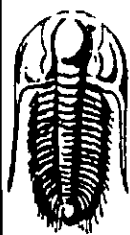
Drill Pipe:	Length: 4324.00 ft	Diameter: 3.80 inches	Volume: 60.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4353.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 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			4326.00	
Shut In Tool	5.00			4331.00	
Hydraulic tool	5.00			4336.00	
Jars	5.00			4341.00	
Safety Joint	2.00			4343.00	
Packer	5.00			4348.00	28.00 Bottom Of Top Packer
Packer	5.00			4353.00	
Stubb	1.00			4354.00	
Recorder	0.00	6753	Inside	4354.00	
Recorder	0.00	8319	Outside	4354.00	
Perforations	14.00			4368.00	
Bullnose	3.00			4371.00	18.00 Bottom Packers & Anchor

Total Tool Length: 46.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

18-20s-20w Pawnee, KS

PO Box 1019
Hays KS 67601

Marvin Saxton #2-18

Job Ticket: 46859

DST#: 2

ATTN: Marc Downing

Test Start: 2012.01.29 @ 21:15:40

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:	bbl		
Water Loss:	7.96 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4600.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	VSOOM 5%O 95%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

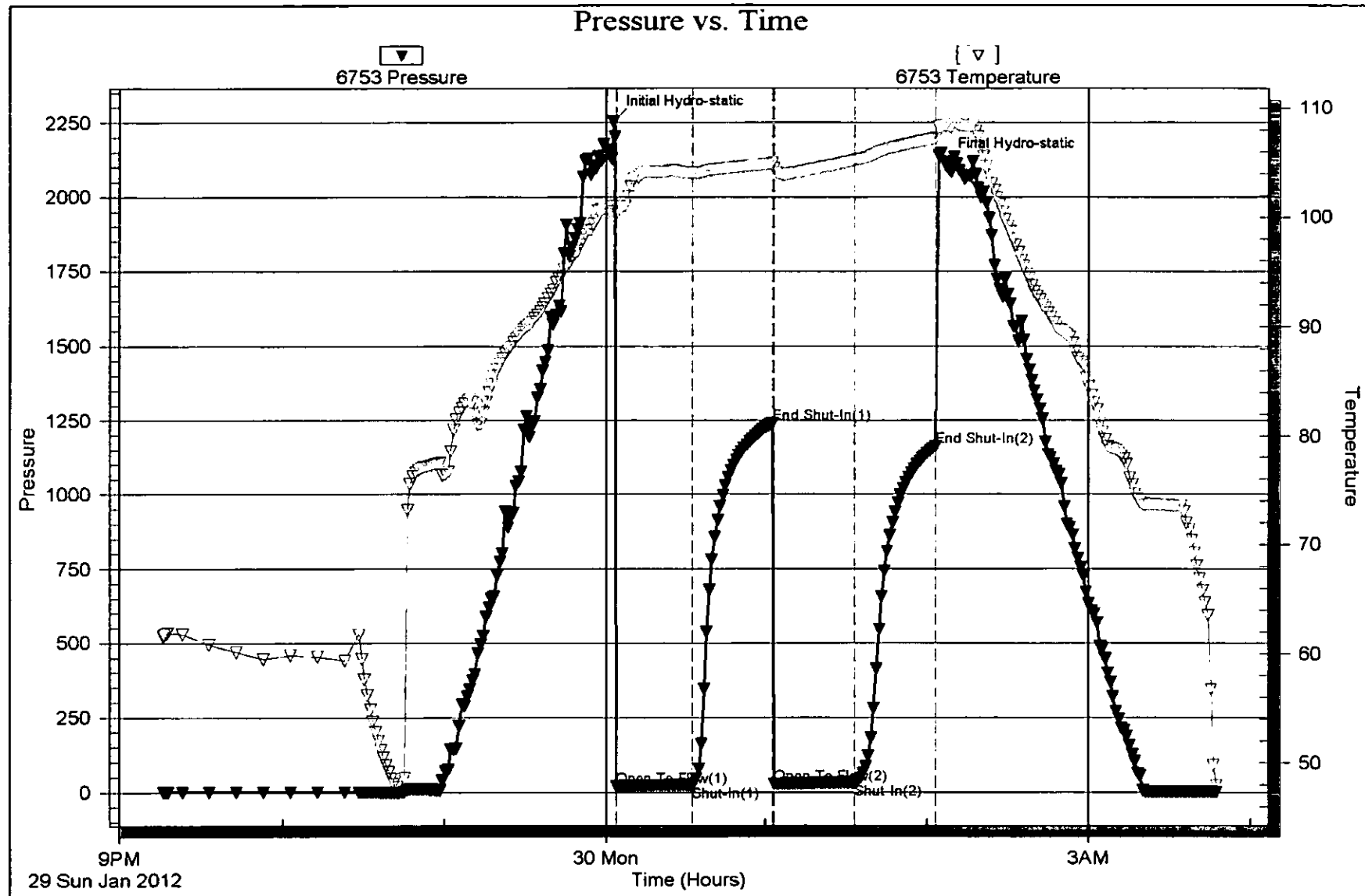
Num Gas Bombs: 0

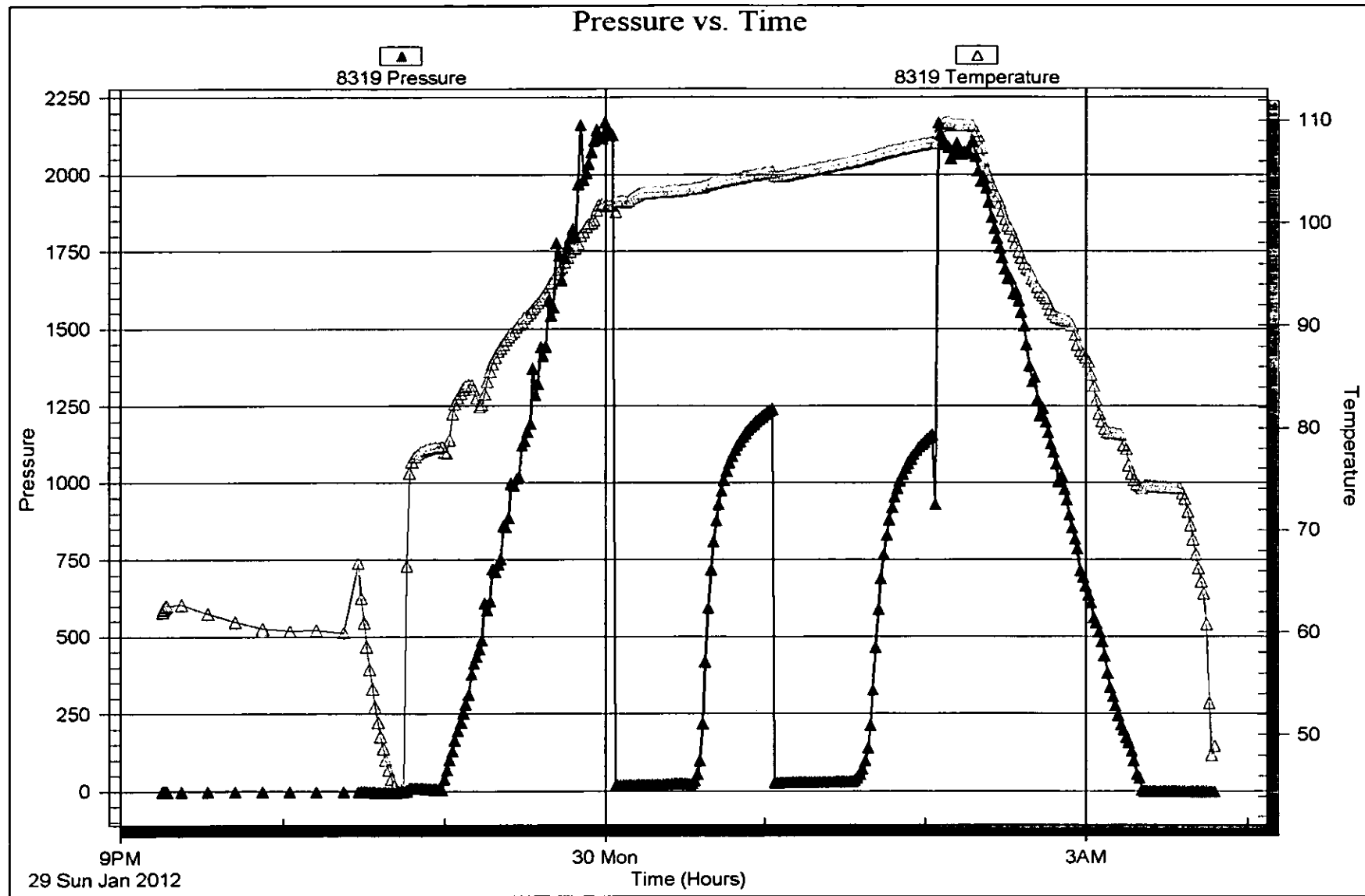
Serial #:

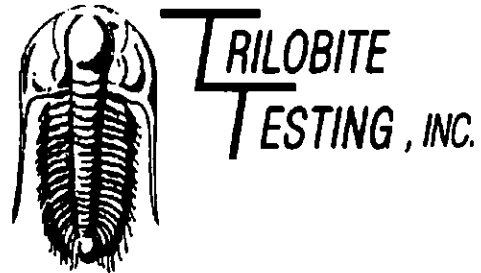
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co. Inc.**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Marvin Saxton #2-18

18-20s-20w Pawnee,KS

Start Date: 2012.01.30 @ 21:45:55

End Date: 2012.01.31 @ 04:30:10

Job Ticket #: 46860 DST #: 3

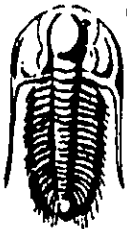
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.01 @ 13:05:11

Downing-Nelson Oil Co. Inc. 18-20s-20w Pawnee,KS Marvin Saxton #2-18 DST # 3 Miss. 2012.01.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

18-20s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Marvin Saxton #2-18

Job Ticket: 46860

DST#: 3

ATTN: Marc Dow ning

Test Start: 2012.01.30 @ 21:45:55

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 23:56:55

Time Test Ended: 04:30:10

Test Type: **Conventional Straddle (Initial)**

Tester: **Brett Dickinson**

Unit No: **59**

Interval: **4365.00 ft (KB) To 4380.00 ft (KB) (TVD)**

Total Depth: **4500.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2211.00 ft (KB)**

2203.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 6755

Outside

Press@RunDepth: **1135.19 psig @ 4376.00 ft (KB)**

Start Date: **2012.01.30**

End Date:

2012.01.31

Start Time: **21:45:57**

End Time:

04:30:10

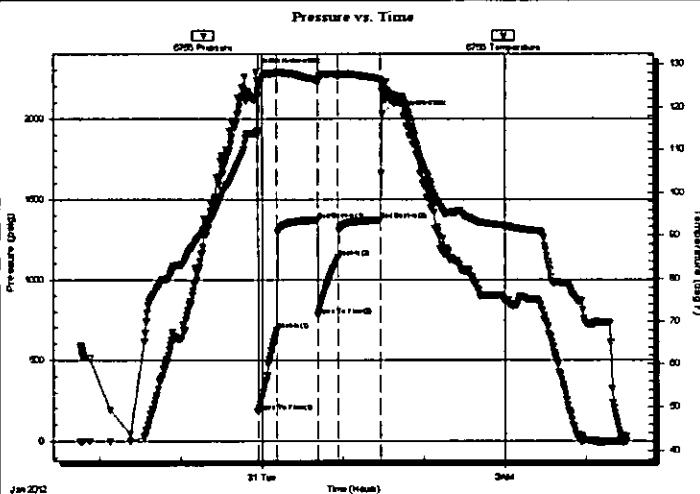
Capacity: **8000.00 psig**

Last Calib.: **2012.01.31**

Time On Btm: **2012.01.30 @ 23:55:40**

Time Off Btm: **2012.01.31 @ 01:29:10**

TEST COMMENT: **IF-BOB in 1 min
ISI-No blow
FF-BOB in 1 min
FSI-No blow**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2290.82	113.90	Initial Hydro-static
2	179.10	113.67	Open To Flow (1)
16	684.98	128.01	Shut-In(1)
46	1368.21	126.24	End Shut-In(1)
46	776.40	125.92	Open To Flow (2)
61	1135.19	127.61	Shut-In(2)
93	1367.45	126.55	End Shut-In(2)
94	2026.33	123.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1885.00	w ater	26.17
300.00	VSOCW 2%O 98%W	4.21
120.00	VSOWCM 5%O 40%W 55%M	1.68
120.00	VSOWCM 5%O 5%W 90%M	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co. Inc.

18-20s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Marvin Saxton #2-18

Job Ticket: 46860

DST#: 3

ATTN: Marc Downing

Test Start: 2012.01.30 @ 21:45:55

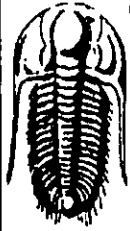
Tool Information

Drill Pipe:	Length: 4353.00 ft	Diameter: 3.80 inches	Volume: 61.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	50.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4365.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	4380.00 ft			
Interval between Packers:	15.00 ft			
Tool Length:	167.00 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	5.00			4338.00	
Shut In Tool	5.00			4343.00	
Hydraulic tool	5.00			4348.00	
Jars	5.00			4353.00	
Safety Joint	2.00			4355.00	
Packer	5.00			4360.00	32.00 Bottom Of Top Packer
Packer	5.00			4365.00	
Stubb	1.00			4366.00	
Perforations	10.00			4376.00	
Recorder	0.00	8289	Inside	4376.00	
Recorder	0.00	6755	Outside	4376.00	
Blank Off Sub	1.00			4377.00	
Blank Spacing	3.00			4380.00	15.00 Tool Interval
Packer	1.00			4381.00	
Perforations	21.00			4402.00	
Change Over Sub	1.00			4403.00	
Recorder	0.00	8736	Below	4403.00	
Blank Spacing	93.00			4496.00	
Change Over Sub	1.00			4497.00	
Bullnose	3.00			4500.00	120.00 Bottom Packers & Anchor

Total Tool Length: 167.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

18-20s-20w Pawnee, KS

PO Box 1019
Hays KS 67601

Marvin Saxton #2-18

Job Ticket: 46860

DST#: 3

ATTN: Marc Downing

Test Start: 2012.01.30 @ 21:45:55

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: 59.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1885.00	water	26.168
300.00	VSOCW 2%O 98%W	4.208
120.00	VSOWCM 5%O 40%W 55%M	1.683
120.00	VSOWCM 5%O 5%W 90%M	1.683

Total Length: 2425.00 ft

Total Volume: 33.742 bbf

Num Fluid Samples: 0

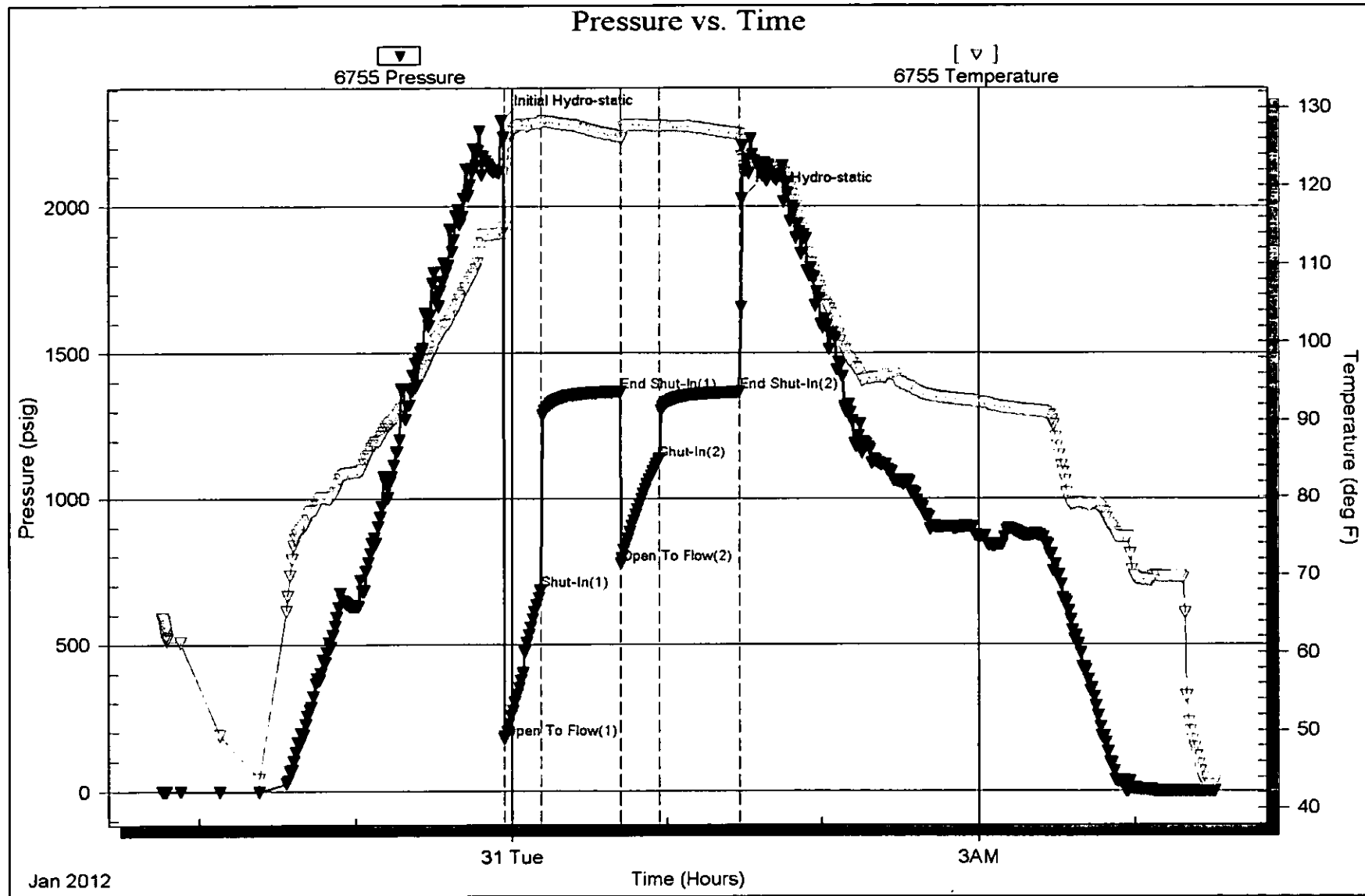
Num Gas Bombs: 0

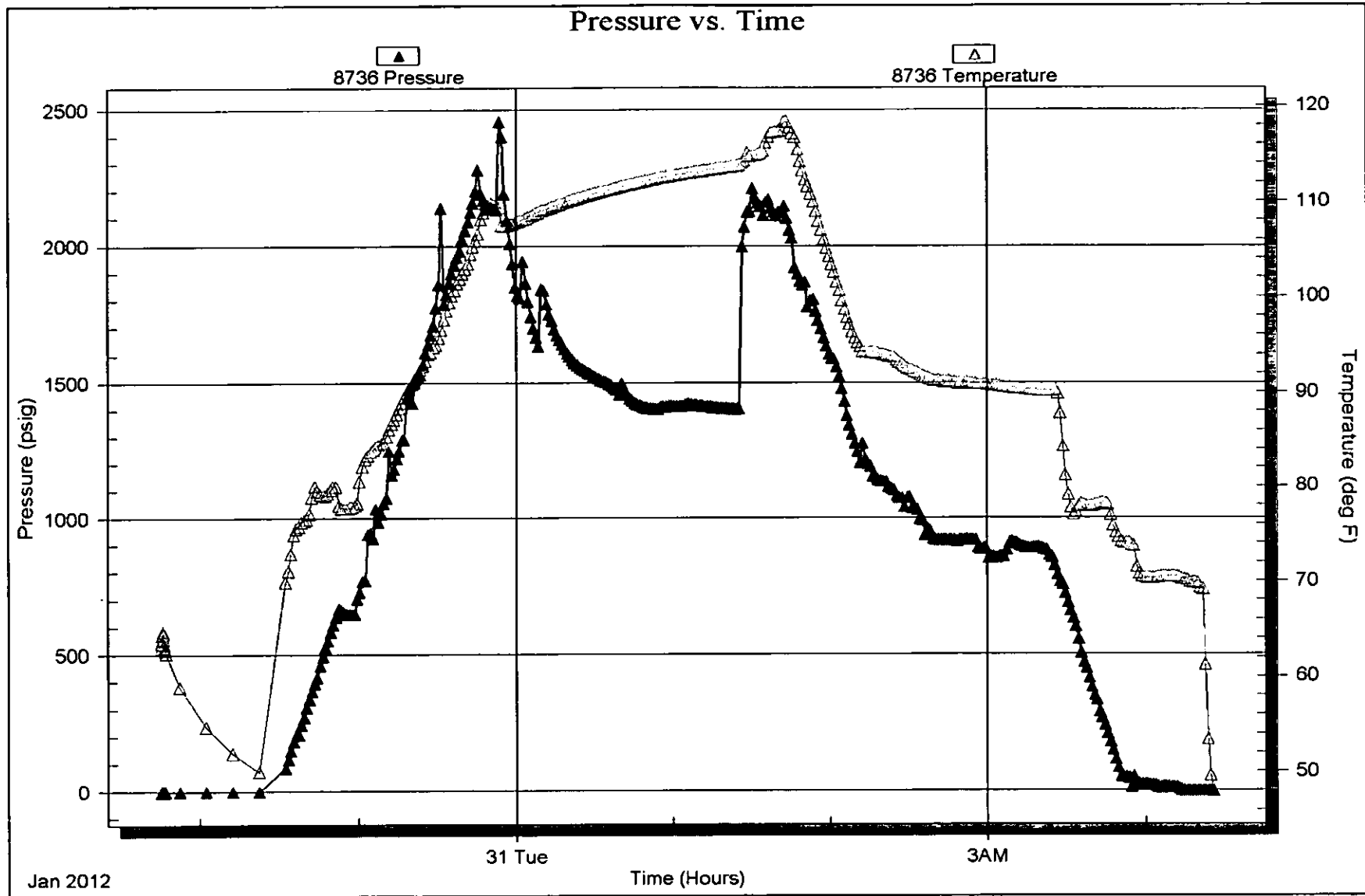
Serial #:

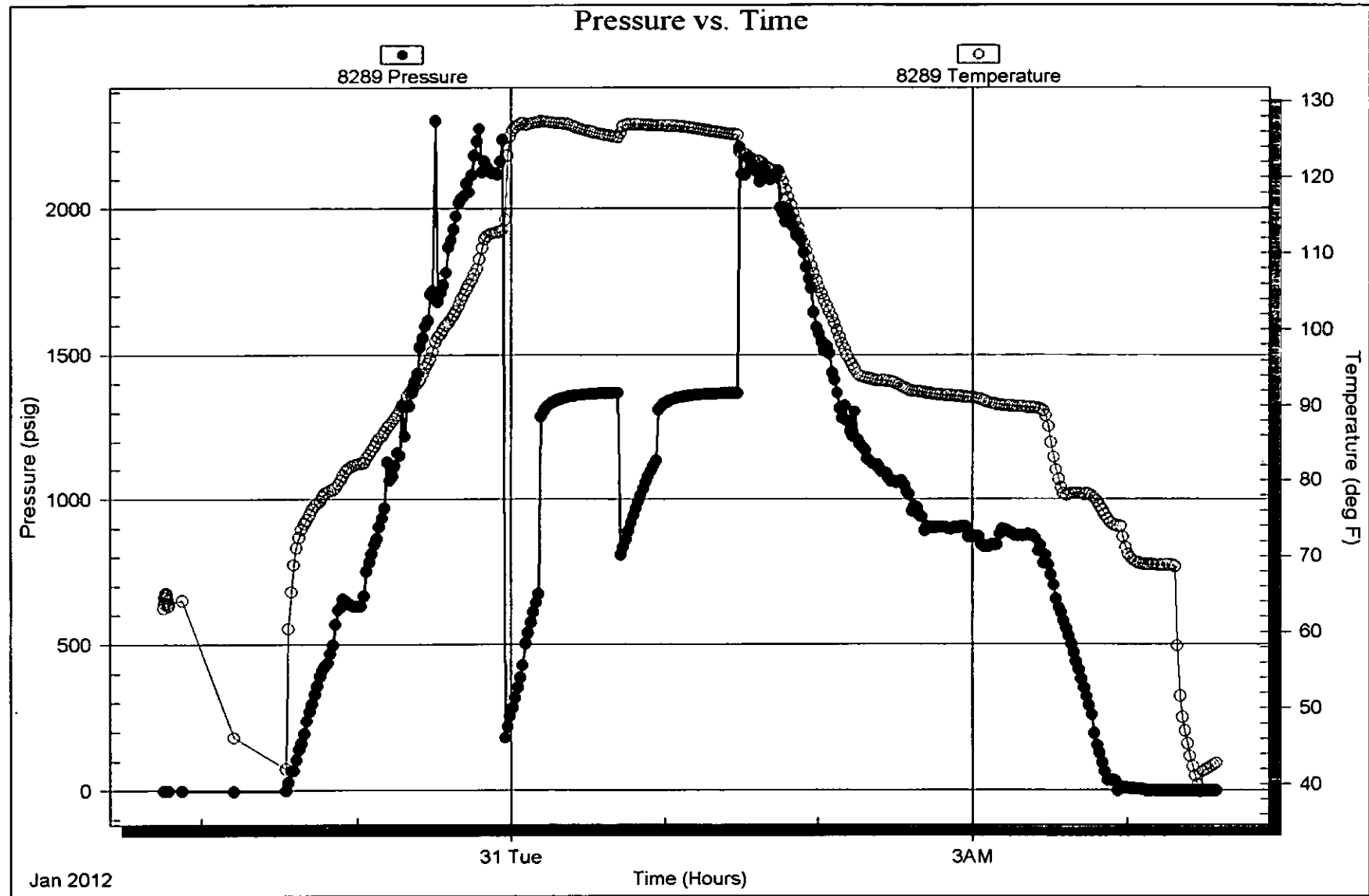
Laboratory Name:

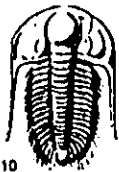
Laboratory Location:

Recovery Comments:









TRILOBITE TESTING INC.

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RECEIVED
JAN 31 2012

Test Ticket

NO. 46858

Well Name & No. Martin Saxton 2-18 BY: _____ Test No. 1 Date 1/29/12
 Company Downing-Nelson Oil Co Inc. Elevation 2211 KB 2203 GL _____
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #14
 Location: Sec. 18 Twp. 20 Rge. 20 Co. Pawnee State KS

Interval Tested 4290-4356 Zone Tested Miss.
 Anchor Length 66 Drill Pipe Run 4266 Mud Wt. 9.2
 Top Packer Depth 4285 Drill Collars Run 30 Vis 53
 Bottom Packer Depth 4290 Wt. Pipe Run _____ WL 8.0
 Total Depth 4356 Chlorides 4,600 ppm System LCM 157
 Blow Description IF - 3/4 in blow
ISF - No blow
FF - very weak surface blow
FSF - No blow

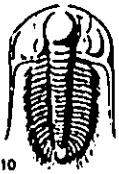
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>VSOCM</u>		<u>5</u>		<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 108 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,185 Test 1225 T-On Location 7:40
 (B) First Initial Flow 25 Jars 250 T-Started 8:30
 (C) First Final Flow 31 Safety Joint 15 T-Open 10:45
 (D) Initial Shut-In 1,072 Circ Sub _____ T-Pulled 12:45
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 14:40
 (F) Second Final Flow 36 Mileage 55x2 11.4 Comments _____
 (G) Final Shut-In 995 Sampler _____
 (H) Final Hydrostatic 2,097 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 17104
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 17104

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, too's lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



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RECEIVED
JAN 29 1912

Test Ticket

NO. 46859

Well Name & No. Marvin Sexton #2-18 BY: _____ Test No. 2 Date 1/29/12
 Company Downing-Nelson Oil Co Inc. Elevation 2211 KB 2203 GL _____
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 18 Twp. 20 Rge. 20 Co. Pawnee State KS

Interval Tested 4353 - 4371 Zone Tested MISS
 Anchor Length 18 Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 4348 Drill Collars Run 30 Vis 53
 Bottom Packer Depth 4353 Wt. Pipe Run _____ WI. 8.0
 Total Depth 4371 Chlorides 4600 ppm System LCM 1 1/2
 Blow Description IF - very weak surface bb -
ISE - No blow
FF - very weak surface blow
FSE - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>VSDCM</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 Total	BHT
<u>15</u>	<u>107</u>
(A) Initial Hydrostatic <u>2,252</u>	<u>20</u>
(B) First Initial Flow _____	<u>24</u>
(C) First Final Flow _____	<u>1,241</u>
(D) Initial Shut-In _____	<u>28</u>
(E) Second Initial Flow _____	<u>32</u>
(F) Second Final Flow _____	<u>1,163</u>
(G) Final Shut-In _____	<u>2,111</u>
(H) Final Hydrostatic _____	

Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

Test 1225
 Jars 250
 Safety Joint 115
 Circ Sub _____
 Hourly Standby _____
 Mileage 53 x 2 154
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1104

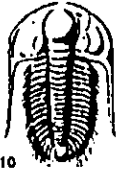
T-On Location 19:30
 T-Started ~~00:10~~ 21:15
 T-Open 00:10
 T-Pulled 2:10
 T-Out 3:50

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total (S)
 Total 1104
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 31 2012

Test Ticket

NO. 46860

Well Name & No. Marvin Saxton #12-18 Test No. 3 Date 1/30/12
 Company Downing-Nelson Oil Co. Inc. Elevation 2211 KB 2203 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 18 Twp. 20 Rge. 20 Co. Pawnee State KS

Interval Tested 4365-4380 Zone Tested Miss.
 Anchor Length 15 Drill Pipe Run 4357 Mud Wt. 9.2
 Top Packer Depth 4360, 4365 Drill Collars Run 30 Vis 5.1
 Bottom Packer Depth 4380 Wt. Pipe Run — WL 10.4
 Total Depth 4500 Chlorides _____ ppm System LCM _____
 Blow Description IF - BOB in line
ISL - No blow
FF - BOB in line
FSL - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>VSO WCM</u>	<u>5</u>	<u>5</u>	<u>90</u>	
<u>120</u>	<u>VSO WCM</u>	<u>5</u>	<u>40</u>	<u>55</u>	
<u>300</u>	<u>VSO CW</u>	<u>2</u>	<u>98</u>		
<u>1885</u>	<u>water</u>				
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2425 BHT 126 Gravity _____ API RW 43 @ 35 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic <u>2291</u>	<input checked="" type="checkbox"/> Test <u>1025</u>	T-On Location <u>21:20</u>
(B) First Initial Flow <u>179</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>21:46</u>
(C) First Final Flow <u>685</u>	<input checked="" type="checkbox"/> Safety Joint <u>115</u>	T-Open <u>23:55</u>
(D) Initial Shut-In <u>1,368</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1:25</u>
(E) Second Initial Flow <u>776</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:30</u>
(F) Second Final Flow <u>6135</u>	<input checked="" type="checkbox"/> Mileage <u>55x2</u>	Comments _____
(G) Final Shut-In <u>1,387</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2,026</u>	<input checked="" type="checkbox"/> Straddle <u>1000</u>	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>6</u>
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>2304</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc'l _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>2304</u>	

Approved By _____ Our Representative Paul DeR...

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