



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

Vandenburg #1-6

6-21s-20w Pawnee,KS

Start Date: 2012.07.17 @ 09:20:00

End Date: 2012.07.17 @ 16:15:00

Job Ticket #: 49272 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.24 @ 09:50:58



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Vandenburg #1-6

Job Ticket: 49272

DST#: 1

ATTN: Alan Dow ning

Test Start: 2012.07.17 @ 09:20:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: 2196.00 ft (KB)

Time Tool Opened: 11:52:30

Time Test Ended: 16:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 59

Interval: 4310.00 ft (KB) To 4349.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 4349.00 ft (KB) (TVD)

2190.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8369 Outside

Press @ Run Depth: 322.93 psig @ 4314.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.17

End Date:

2012.07.17

Last Calib.:

2012.07.17

Start Time: 09:20:05

End Time:

16:14:59

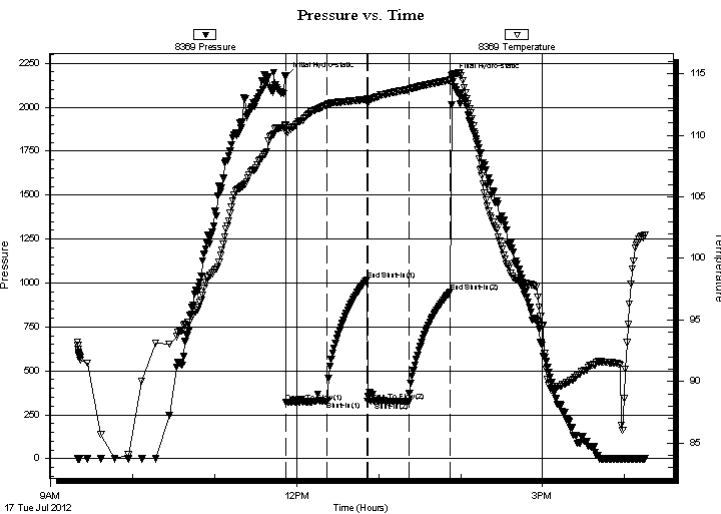
Time On Btm:

2012.07.17 @ 11:52:00

Time Off Btm:

2012.07.17 @ 13:54:00

TEST COMMENT: 30-IFP- Surface Blow Building to 1/4"
30-ISIP- No Blow
30-FFP- No Blow Flushed Good Surge No Blow
30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.72	110.82	Initial Hydro-static
1	320.03	110.30	Open To Flow (1)
31	326.18	112.46	Shut-In(1)
60	1017.40	112.92	End Shut-In(1)
60	326.92	112.54	Open To Flow (2)
90	322.93	113.70	Shut-In(2)
121	948.66	114.47	End Shut-In(2)
122	2166.96	114.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	CO 100%o	0.01
620.00	VS Oil Speck Mud	8.44

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Vandenburg #1-6

Job Ticket: 49272

DST#: 1

ATTN: Alan Dow ning

Test Start: 2012.07.17 @ 09:20:00

Tool Information

Drill Pipe:	Length: 4289.00 ft	Diameter: 3.80 inches	Volume: 60.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4310.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	39.00 ft			
Tool Length:	59.00 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			4291.00	
Shut In Tool	5.00			4296.00	
Hydraulic tool	5.00			4301.00	
Packer	4.00			4305.00	20.00 Bottom Of Top Packer
Packer	5.00			4310.00	
Stubb	1.00			4311.00	
Perforations	2.00			4313.00	
Change Over Sub	1.00			4314.00	
Recorder	0.00	8319	Inside	4314.00	
Recorder	0.00	8369	Outside	4314.00	
Blank Spacing	31.00			4345.00	
Change Over Sub	1.00			4346.00	
Bullnose	3.00			4349.00	39.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Vandenburg #1-6

Job Ticket: 49272

DST#: 1

ATTN: Alan Dow ning

Test Start: 2012.07.17 @ 09:20:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	CO 100%o	0.015
620.00	VS Oil Speck Mud	8.442

Total Length: 623.00 ft

Total Volume: 8.457 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

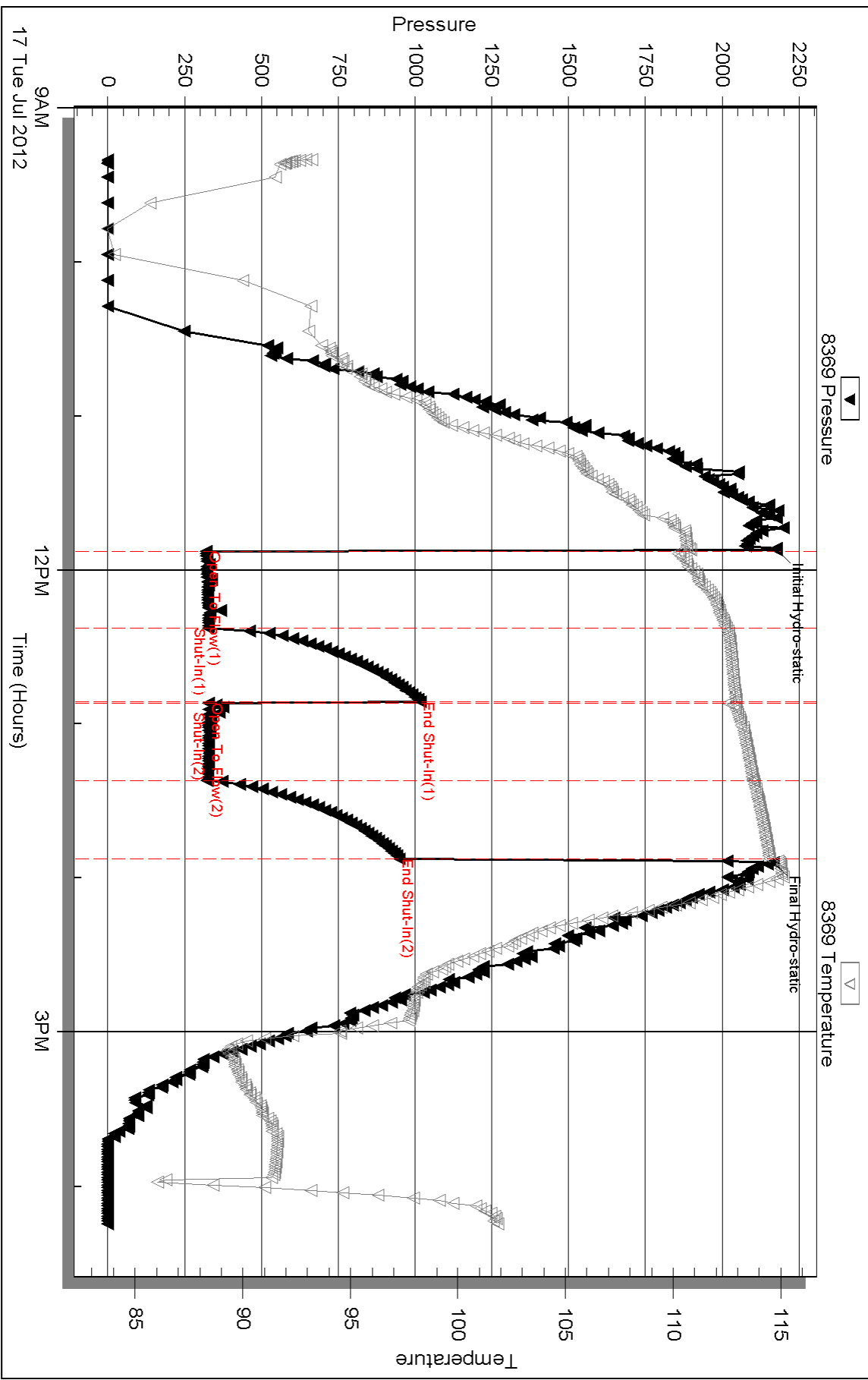
Serial #: 8369

Outside Dow nting-Nelson Oil Co Inc

Vanderburg #1-6

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49272

Printed: 2012.07.24 @ 09:51:00

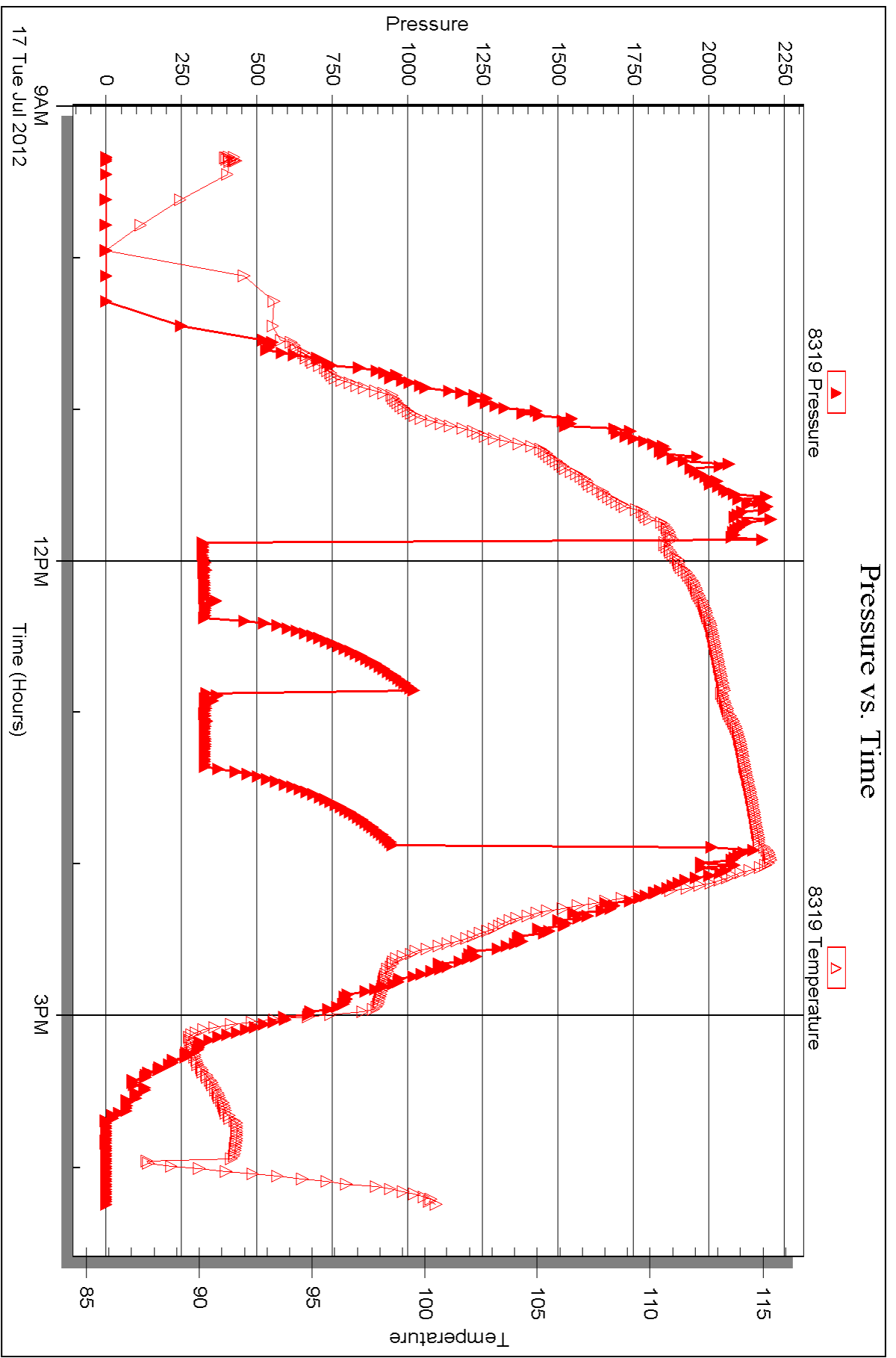
Serial #: 8319

Inside

Dow nung-Nelson Oil Co Inc

Vanderburg #1-6

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49272

Printed: 2012.07.24 @ 09:51:01



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

Vandenburg #1-6

6-21s-20w Pawnee,KS

Start Date: 2012.07.18 @ 01:10:00

End Date: 2012.07.18 @ 06:46:00

Job Ticket #: 49273 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.24 @ 09:50:07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Vandenburg #1-6

Job Ticket: 49273

DST#: 2

ATTN: Alan Dow ning

Test Start: 2012.07.18 @ 01:10:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: 2196.00 ft (KB)

Time Tool Opened: 03:01:00

Time Test Ended: 06:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 59

Interval: 4310.00 ft (KB) To 4353.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 4353.00 ft (KB) (TVD)

2190.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8369 Outside

Press @ RunDepth: 51.45 psig @ 4318.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.18

End Date:

2012.07.18

Last Calib.:

2012.07.18

Start Time: 01:10:05

End Time:

06:45:59

Time On Btm:

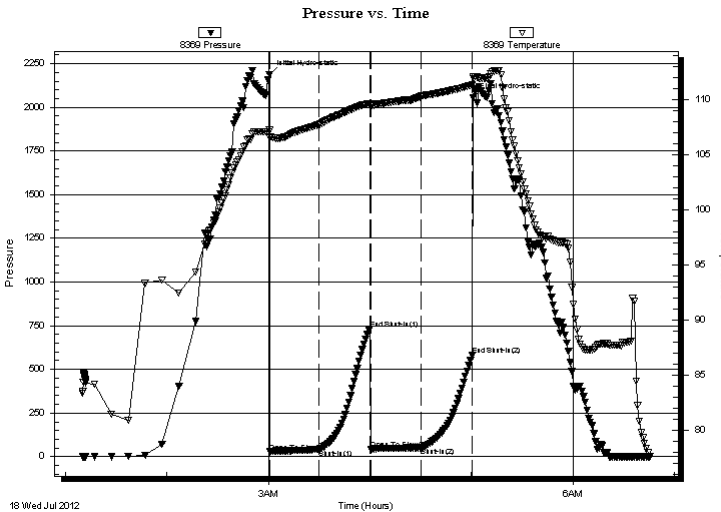
2012.07.18 @ 03:00:30

Time Off Btm:

2012.07.18 @ 05:01:00

TEST COMMENT: 30-IFP- Good Surge Surface Blow Died in 2 min
30-ISIP- No Blow
30-FFP- Surface Blow Died in 10 sec Flushed Blow Died in 30 sec
30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2187.35	107.22	Initial Hydro-static
1	27.69	106.56	Open To Flow (1)
30	41.68	107.73	Shut-In(1)
60	730.20	109.66	End Shut-In(1)
60	43.94	109.46	Open To Flow (2)
90	51.45	110.29	Shut-In(2)
120	579.30	111.32	End Shut-In(2)
121	2055.44	112.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	OCM 25%o 75%m	0.84

* 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 Inc

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Vandenburg #1-6

Job Ticket: 49273

DST#: 2

ATTN: Alan Dow ning

Test Start: 2012.07.18 @ 01:10:00

Tool Information

Drill Pipe:	Length: 4289.00 ft	Diameter: 3.80 inches	Volume: 60.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4310.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4291.00	
Shut In Tool	5.00			4296.00	
Hydraulic tool	5.00			4301.00	
Packer	4.00			4305.00	20.00 Bottom Of Top Packer
Packer	5.00			4310.00	
Stubb	1.00			4311.00	
Perforations	6.00			4317.00	
Change Over Sub	1.00			4318.00	
Recorder	0.00	8319	Inside	4318.00	
Recorder	0.00	8369	Outside	4318.00	
Blank Spacing	31.00			4349.00	
Change Over Sub	1.00			4350.00	
Bullnose	3.00			4353.00	43.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Vandenburg #1-6

Job Ticket: 49273

DST#: 2

ATTN: Alan Dow ning

Test Start: 2012.07.18 @ 01:10:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	OCM 25%o 75%m	0.840

Total Length: 80.00 ft Total Volume: 0.840 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

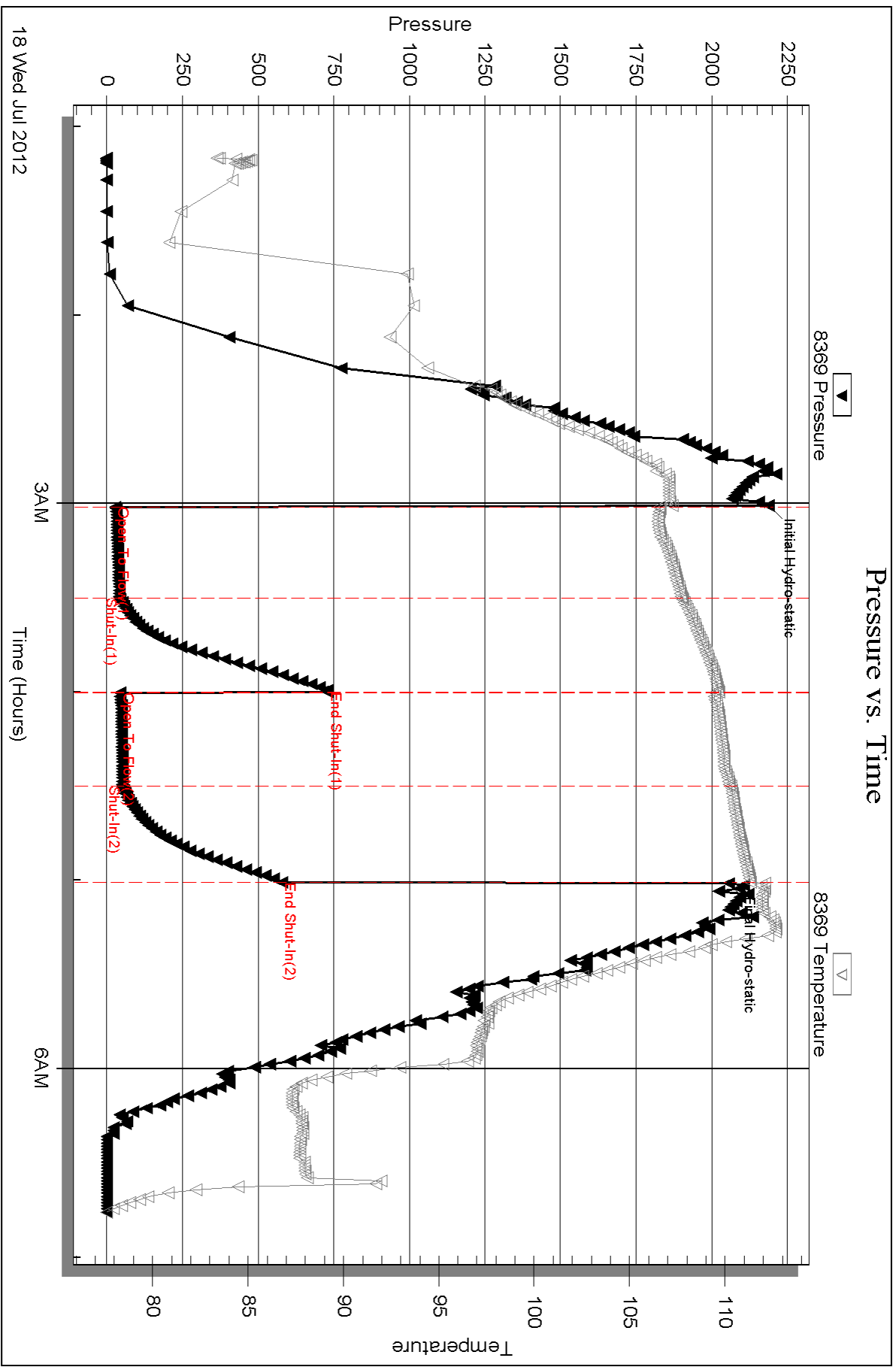
Recovery Comments:

Serial #: 8369

Outside Dow nung-Nelson Oil Co Inc

Vanderburg #1-6

DST Test Number: 2



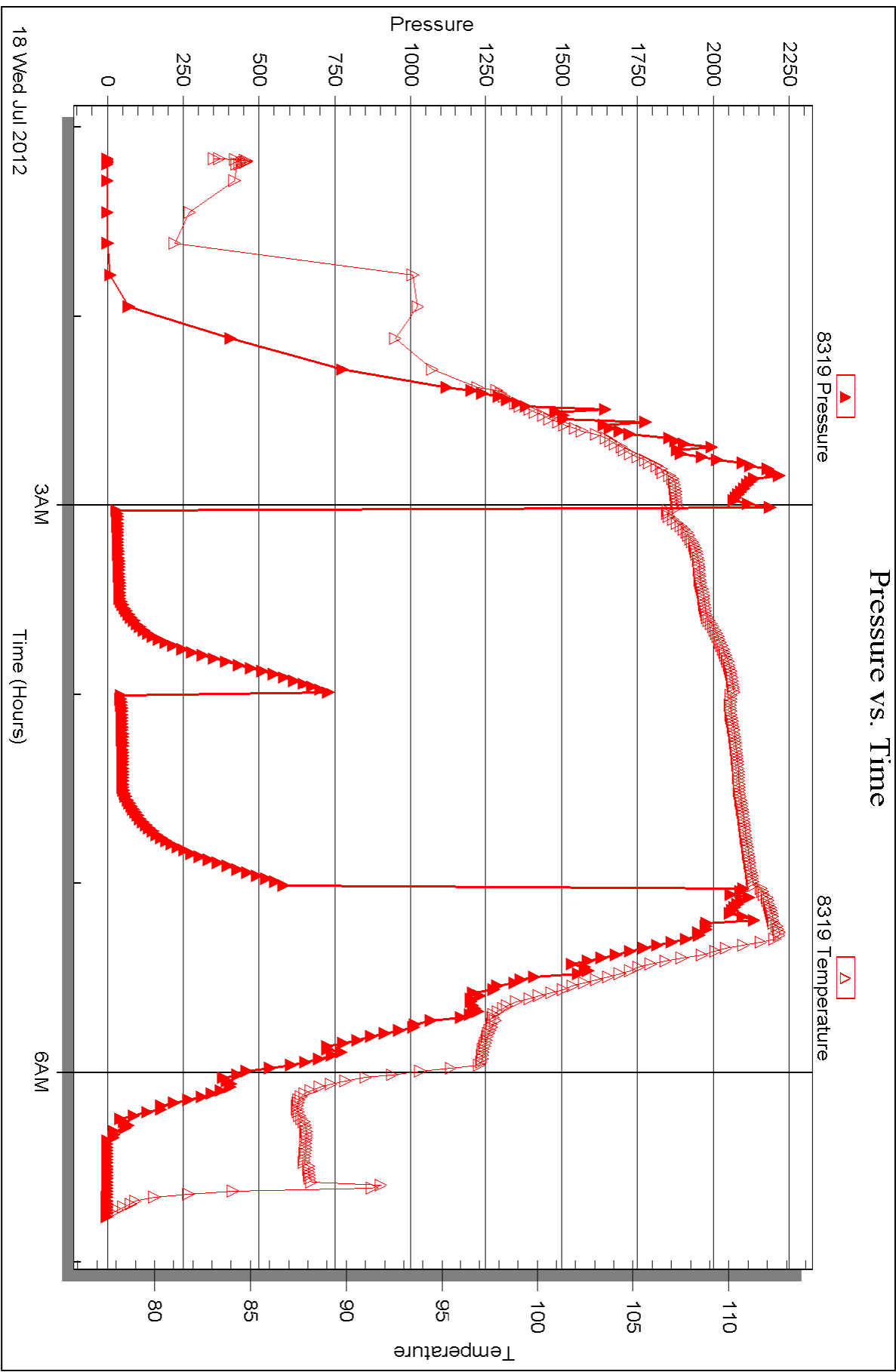
Serial #: 8319

Inside

Dow nung-Nelson Oil Co Inc

Vanderburg #1-6

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

Vandenburg #1-6

6-21s-20w Pawnee,KS

Start Date: 2012.07.18 @ 14:00:00

End Date: 2012.07.18 @ 21:20:30

Job Ticket #: 49274 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.24 @ 09:49:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Vandenburg #1-6

Job Ticket: 49274

DST#: 3

ATTN: Alan Dow ning

Test Start: 2012.07.18 @ 14:00:00

GENERAL INFORMATION:

Formation: **Miss-Osage**

Deviated: No Whipstock: 2196.00 ft (KB)

Time Tool Opened: 16:24:30

Time Test Ended: 21:20:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 4345.00 ft (KB) To 4361.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 4361.00 ft (KB) (TVD)

2190.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8369 Outside

Press @ RunDepth: 829.03 psig @ 4358.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.18

End Date:

2012.07.18

Last Calib.:

2012.07.18

Start Time: 14:00:05

End Time:

21:20:29

Time On Btm:

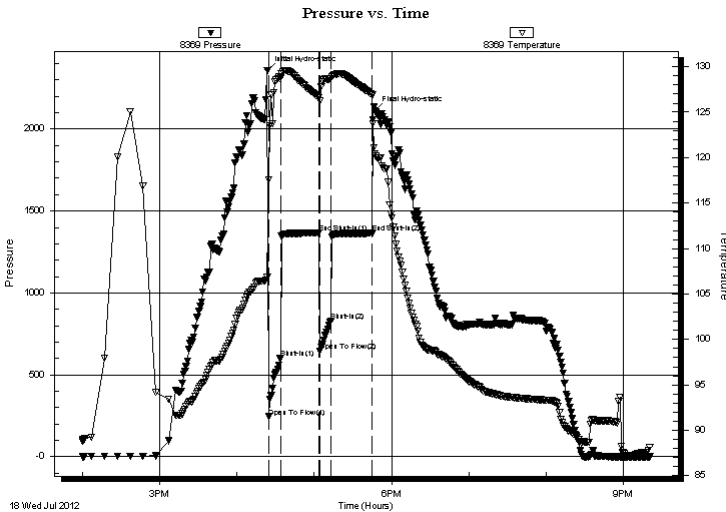
2012.07.18 @ 16:23:30

Time Off Btm:

2012.07.18 @ 17:47:00

TEST COMMENT: IF-BOB in 30 sec
ISI-BOB in 26 min
FF-BOB in 30 sec
FSI-8" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2358.73	106.83	Initial Hydro-static
1	244.04	117.59	Open To Flow (1)
11	603.43	128.80	Shut-In(1)
40	1365.76	126.62	End Shut-In(1)
41	647.03	126.23	Open To Flow (2)
50	829.03	128.71	Shut-In(2)
82	1364.63	126.90	End Shut-In(2)
84	2112.10	120.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1715.00	GO 15%G 85%O	23.77
0.00	675ft GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Vandenburg #1-6

Job Ticket: 49274

DST#: 3

ATTN: Alan Dow ning

Test Start: 2012.07.18 @ 14:00:00

Tool Information

Drill Pipe:	Length: 4322.00 ft	Diameter: 3.80 inches	Volume: 60.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.78 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4345.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	16.00 ft			
Tool Length:	36.00 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	
Packer	4.00			4340.00	20.00 Bottom Of Top Packer
Packer	5.00			4345.00	
Stubb	1.00			4346.00	
Perforations	12.00			4358.00	
Recorder	0.00	8319	Inside	4358.00	
Recorder	0.00	8369	Outside	4358.00	
Bullnose	3.00			4361.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Vandenburg #1-6

Job Ticket: 49274

DST#: 3

ATTN: Alan Dow ning

Test Start: 2012.07.18 @ 14:00:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1715.00	GO 15%G 85%O	23.775
0.00	675ft GIP	0.000

Total Length: 1715.00 ft Total Volume: 23.775 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

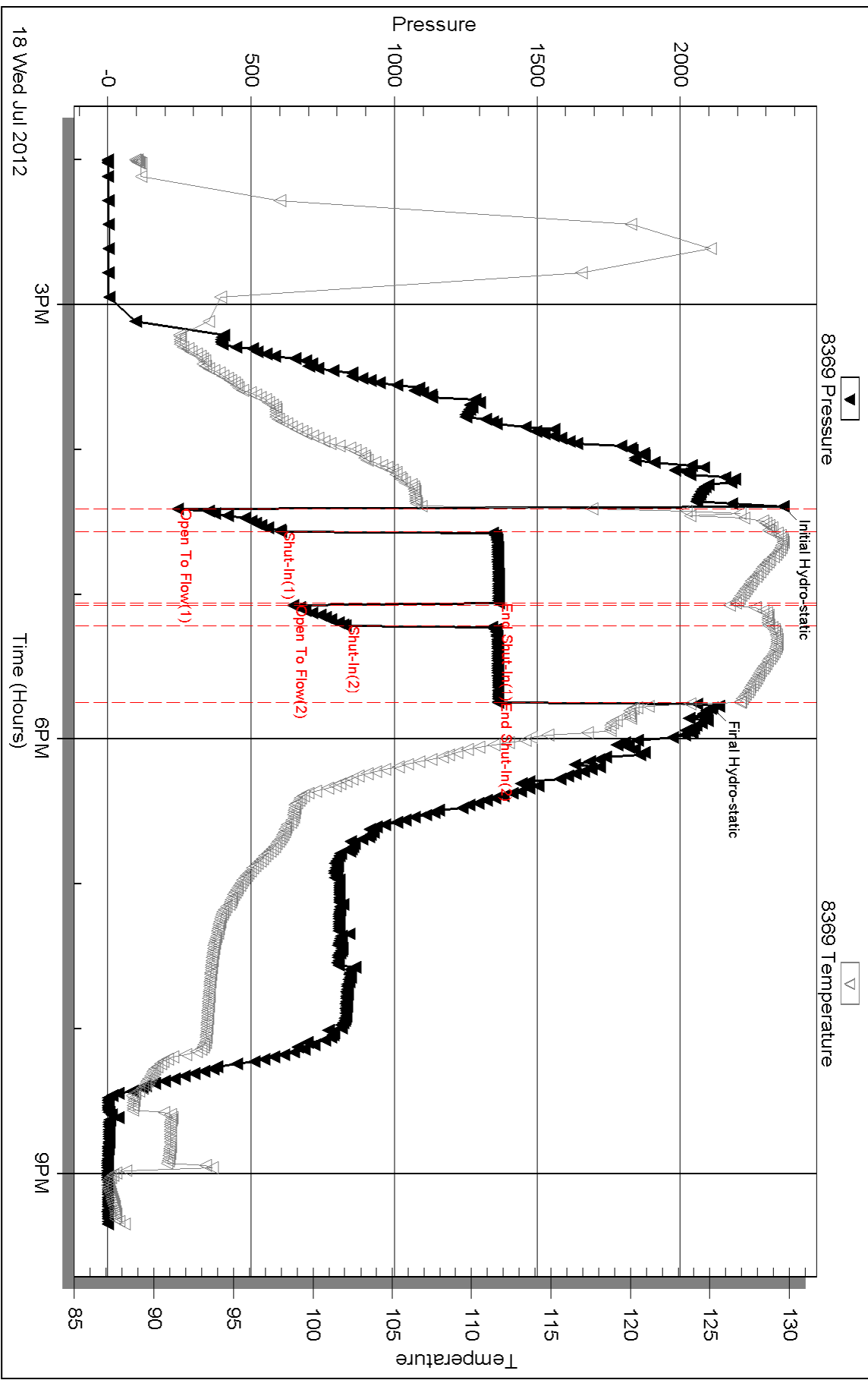
Serial #: 8369

Outside Dow nung-Nelson Oil Co Inc

Vanderburg #1-6

DST Test Number: 3

Pressure vs. Time



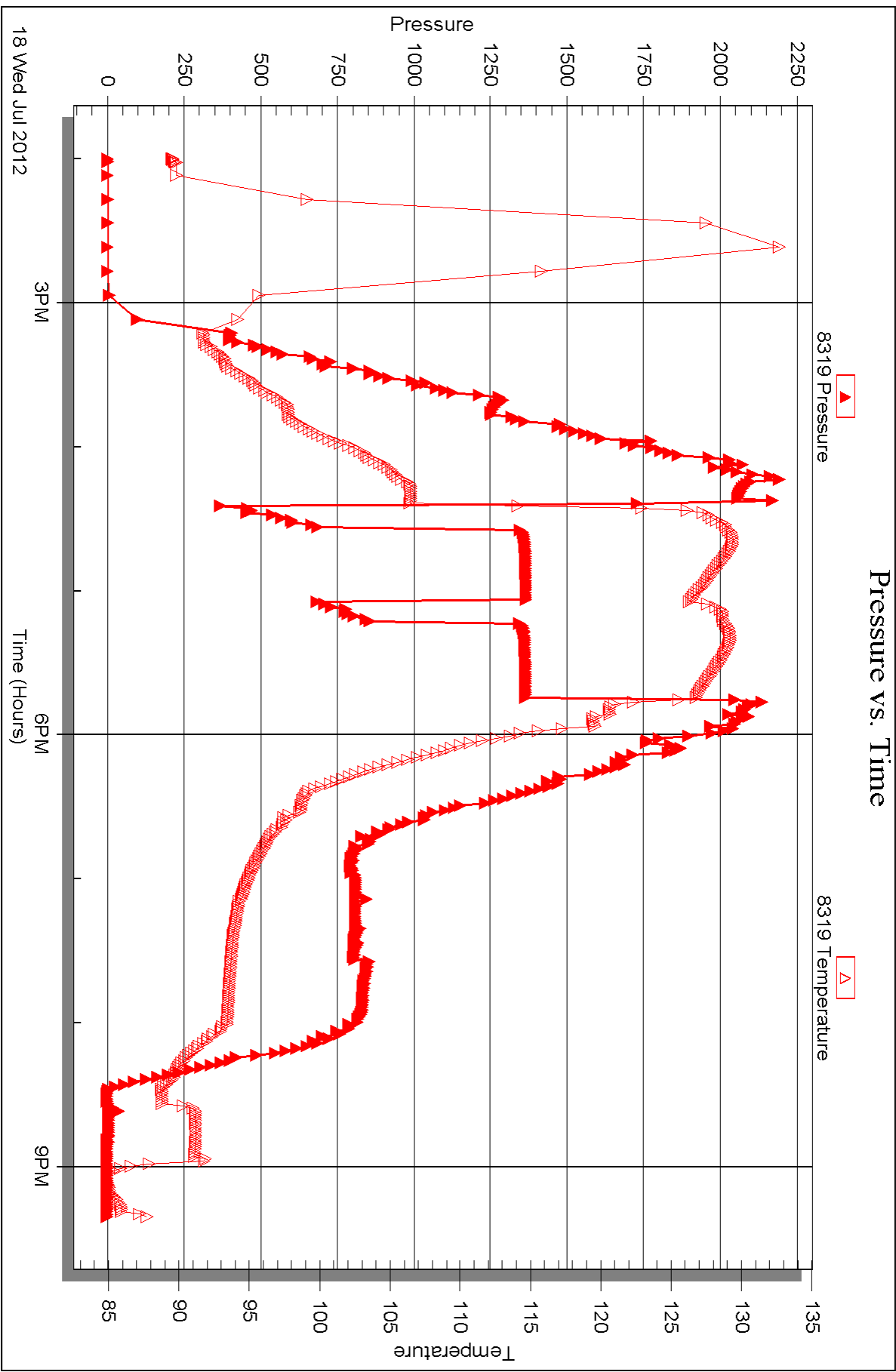
Serial #: 8319

Inside

Dow nung-Nelson Oil Co Inc

Vanderburg #1-6

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49272

Well Name & No. Vardenburg # 1-6 Test No. 1 Date 7-17-12
 Company Downing-Nelson Oil Co. Inc. Elevation 2196 KB 2190 GL
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. AI Downing Rig Discovery Rig #4
 Location: Sec. 6 Twp. 21^s Rge. 20^w Co. Rawnee State KS

Interval Tested 4310 - 4349 Zone Tested MIST
 Anchor Length 39 Drill Pipe Run 4289 Mud Wt. 8.9
 Top Packer Depth 4305 Drill Collars Run 31 Vis 49
 Bottom Packer Depth 4310 Wt. Pipe Run ⊖ WL 12
 Total Depth 4349 Chlorides 9000 ppm System LCM 2

Blow Description IFP - Surface Blow Building to 1/4"
ISIP - No Blow
FFP - No Blow Flushed No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>CO</u>	<u>100</u>			
<u>620</u>	<u>VS 05 m</u>				

Rec Total 623 BHT 114 Gravity 35 API RW @ _____ °F Chlorides _____ ppm

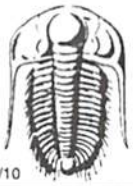
(A) Initial Hydrostatic 2176 Test 1250 T-On Location 07:56
 (B) First Initial Flow 320 Jars _____ T-Started 09:20
 (C) First Final Flow 326 Safety Joint _____ T-Open 11:52
 (D) Initial Shut-In 1017 Circ Sub _____ T-Pulled 13:52
 (E) Second Initial Flow 326 Hourly Standby _____ T-Out 16:15
 (F) Second Final Flow 322 Mileage 158 RT ^{244.90} Comments Found dime size hole in Drill Pipe when going back in hole w/ bit
 (G) Final Shut-In 948 Sampler _____ Ruined Shale Packer _____
 (H) Final Hydrostatic 2166 Straddle _____ Ruined Packer _____
 Shale Packer _____ Extra Copies _____
 Extra Packer _____ Extra Recorder _____
 Extra Recorder _____ Day Standby _____
 Accessibility _____

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

Sub Total 1494.90 Total 1494.90 MP/DST Disc't _____

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, 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49273

Well Name & No. Vanderburg #1-6 Test No. 2 Date 7-17-12
 Company Downing-Nelson Oil Co Inc. Elevation 2196 KB 2190 GL
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. Al Downing Rig Discovery #4
 Location: Sec. 6 Twp. 29^s Rge. 20^w Co. PAWNEE State KS

Interval Tested 4310 - 4353 Zone Tested MISS
 Anchor Length 43 Drill Pipe Run 4289 Mud Wt. 8.8
 Top Packer Depth 4305 Drill Collars Run 31 Vis 58
 Bottom Packer Depth 4310 Wt. Pipe Run 0 WL 10
 Total Depth 4253 Chlorides 5000 ppm System LCM 2

Blow Description IFP - Good Surge Surface Blow Died in 2min
ISIP - No Blow
FFP - Surface Blow Died in 10sec. Flush S.B. Died in 30sec.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>0 CM</u>	<u>25</u>		<u>75</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 80 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2187 Test 1250 T-On Location 23:10
 (B) First Initial Flow 27 Jars _____ T-Started 01:10
 (C) First Final Flow 41 Safety Joint _____ T-Open 03:00
 (D) Initial Shut-In 730 Circ Sub _____ T-Pulled 05:00
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 06:46
 (F) Second Final Flow 51 Mileage 244.90 Comments _____
 (G) Final Shut-In 579 Sampler _____
 (H) Final Hydrostatic 2055 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1494.90
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1494.90

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, 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49274

Well Name & No. Vanden burg #1-6 Test No. 3 Date 7/18/12
 Company Downing-Nelson Oil Co. Inc. Elevation 2196 KB 2190 GL
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. A1 Downing Rig Discovery #4
 Location: Sec. 6 Twp. 21^s Rge. 20^w Co. Pawnee State KS

Interval Tested 4345 - 4361 Zone Tested Miss-Osage
 Anchor Length 16 Drill Pipe Run 4322 Mud Wt. _____
 Top Packer Depth 4340 Drill Collars Run 31 Vis _____
 Bottom Packer Depth 4345 Wt. Pipe Run _____ WL _____
 Total Depth 4361 Chlorides _____ ppm System LCM _____
 Blow Description IF - BOB in 1/2 min
FSI - BOB in 26 min
FF - BOB in 1/2 min
FSI - 8 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1715</u>	<u>60</u>	<u>15</u>	<u>85</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>675-4 GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1715 BHT 120 Gravity 35 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,359 Test 1250 T-On Location 13:35
 (B) First Initial Flow 244 Jars _____ T-Started 14:00
 (C) First Final Flow 603 Safety Joint _____ T-Open 16:20
 (D) Initial Shut-In 1,366 Circ Sub _____ T-Pulled 18:40
 (E) Second Initial Flow 647 Hourly Standby _____ T-Out 21:23
 (F) Second Final Flow 829 Mileage 158 RT 244.90 Comments _____
 (G) Final Shut-In 1,365 Sampler _____
 (H) Final Hydrostatic 2,112 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 10
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In 30

Sub Total 1494.90

MP/DST Disc't _____

Approved By _____ Our Representative Brian Jones

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