



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company Inc**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Penka #1-30

30-17S-18W/ Rush,KS

Start Date: 2016.04.13 @ 09:19:12

End Date: 2016.04.13 @ 17:28:42

Job Ticket #: 65089 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.05.06 @ 08:43:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company Inc

30-17S-18W/ Rush,KS

PO Box 1019
Hays KS 67601

Penka #1-30

Job Ticket: 65089

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.04.13 @ 09:19:12

GENERAL INFORMATION:

Formation: **Conglomerate Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:53:42

Time Test Ended: 17:28:42

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Sw inney

Unit No: 72

Interval: 3825.00 ft (KB) To 3848.00 ft (KB) (TVD)

Reference Elevations: 2124.00 ft (KB)

Total Depth: 3848.00 ft (KB) (TVD)

2113.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6741

Inside

Press@RunDepth: 147.68 psig @ 3844.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.16

End Date:

2016.05.16

Last Calib.:

2016.05.04

Start Time:

02:37:05

End Time:

10:46:29

Time On Btm:

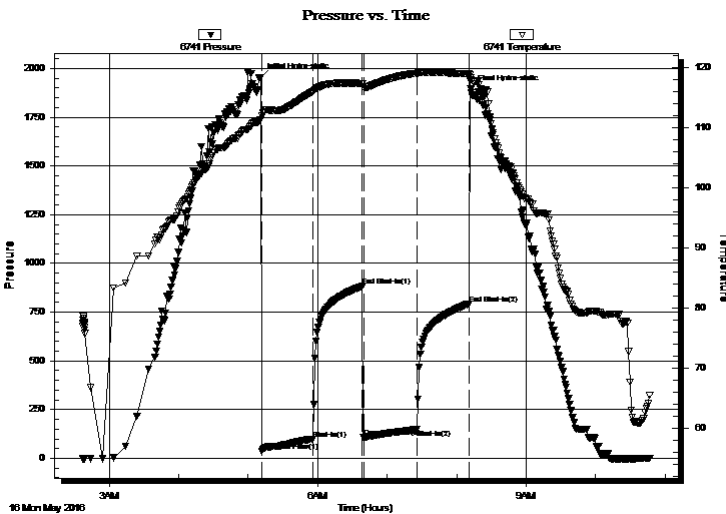
2016.05.16 @ 05:10:30

Time Off Btm:

2016.05.16 @ 08:12:00

TEST COMMENT: IFP BOB in 36 minutes
ISI No blow back
FFP -Blow built to 8 1/2"
FSI No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.58	111.25	Initial Hydro-static
1	35.21	111.89	Open To Flow (1)
45	99.09	115.92	Shut-In(1)
88	883.26	117.29	End Shut-In(1)
89	105.76	116.81	Open To Flow (2)
135	147.68	118.98	Shut-In(2)
180	793.18	118.84	End Shut-In(2)
182	1894.25	118.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	OCMW Oil 5% Mud 30% Water 65%	3.33
30.00	Clean oil	0.42

Gas Rates

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



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Tester: Ken Sw inney

Unit No: 72

Interval: 3825.00 ft (KB) To 3848.00 ft (KB) (TVD)

Reference Elevations: 2124.00 ft (KB)

Total Depth: 3848.00 ft (KB) (TVD)

2113.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8960 Outside

Press@RunDepth: 796.05 psig @ 3845.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.16

End Date:

2016.05.16

Last Calib.: 2016.05.04

Start Time: 02:37:05

End Time:

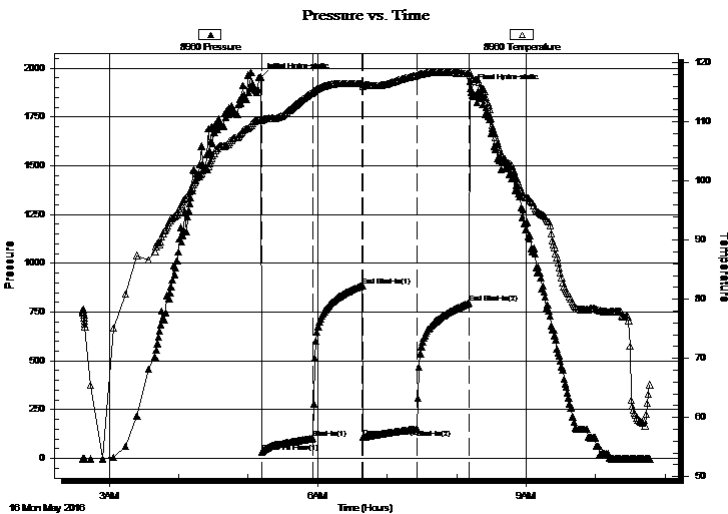
10:46:29

Time On Btm: 2016.05.16 @ 05:10:30

Time Off Btm: 2016.05.16 @ 08:12:00

TEST COMMENT: IFP BOB in 36 minutes
ISI No blow back
FFP -Blow built to 8 1/2"
FSI No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.14	110.42	Initial Hydro-static
1	31.62	110.17	Open To Flow (1)
45	102.34	114.98	Shut-In(1)
88	886.09	116.46	End Shut-In(1)
89	108.40	115.99	Open To Flow (2)
135	151.40	117.85	Shut-In(2)
180	796.05	118.16	End Shut-In(2)
182	1895.26	117.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	OCMW Oil 5% Mud 30% Water 65%	3.33
30.00	Clean oil	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Company Inc

30-17S-18W/ Rush,KS

PO Box 1019
Hays KS 67601

Penka #1-30

Job Ticket: 65089

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.04.13 @ 09:19:12

Tool Information

Drill Pipe:	Length: 3714.00 ft	Diameter: 3.80 inches	Volume: 52.10 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:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 52.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3825.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	23.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3810.00	
Hydraulic tool	5.00			3815.00	
Top Packer	5.00			3820.00	
Packer	5.00			3825.00	20.00 Bottom Of Top Packer
Anchor	18.00			3843.00	
Recorder	1.00	6741	Inside	3844.00	
Recorder	1.00	8960	Outside	3845.00	
Bullnose	3.00			3848.00	23.00 Anchor Tool

Total Tool Length: 43.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company Inc

30-17S-18W/ Rush,KS

PO Box 1019
Hays KS 67601

Penka #1-30

Job Ticket: 65089

DST#: 1

ATTN: Marc Downing

Test Start: 2016.04.13 @ 09:19:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
315.00	OCMW Oil 5% Mud 30% Water 65%	3.325
30.00	Clean oil	0.421

Total Length: 345.00 ft Total Volume: 3.746 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

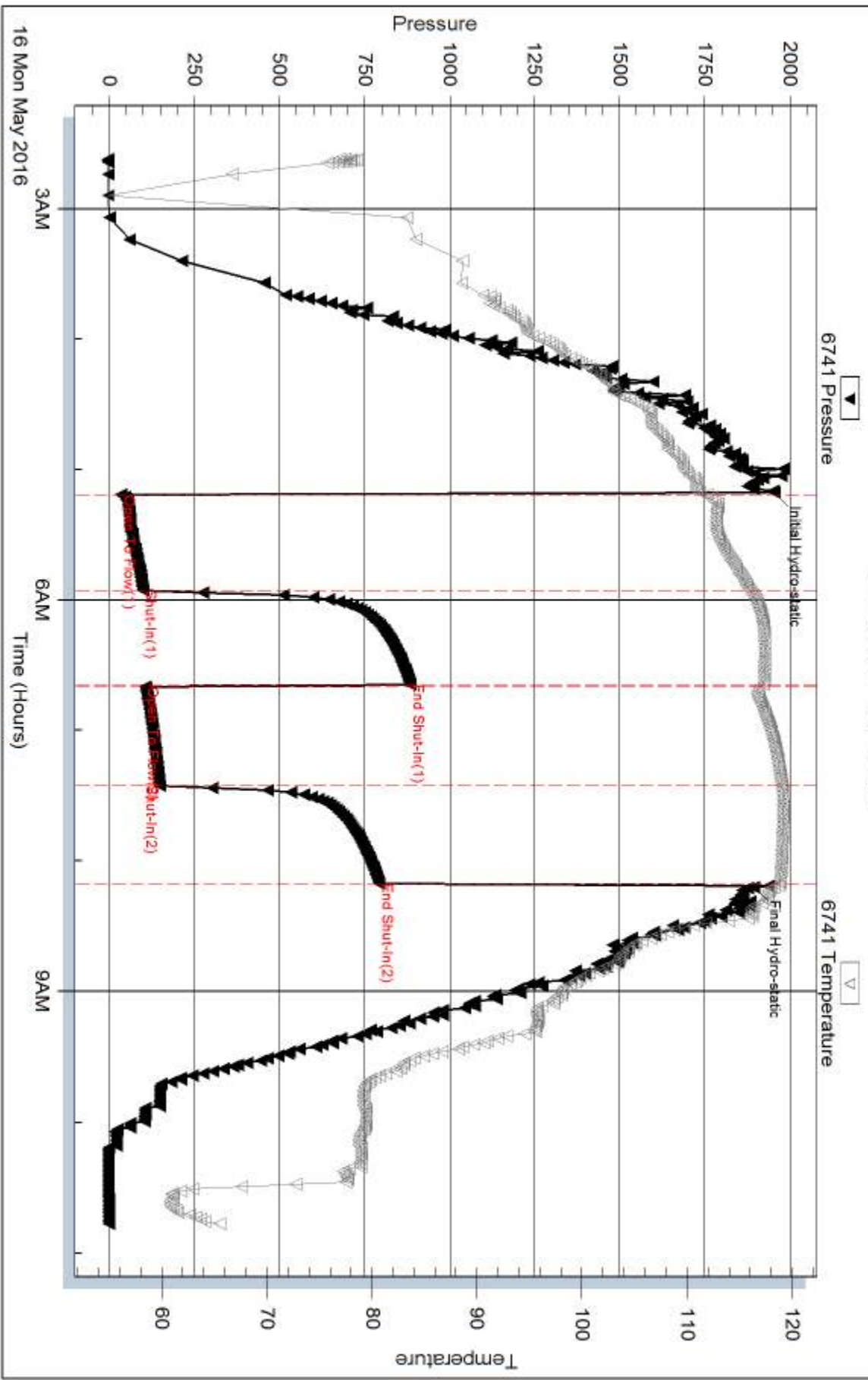
Inside

Downing Nelson Oil Company Inc

Penka #1-30

DST Test Number: 1

Pressure vs. Time

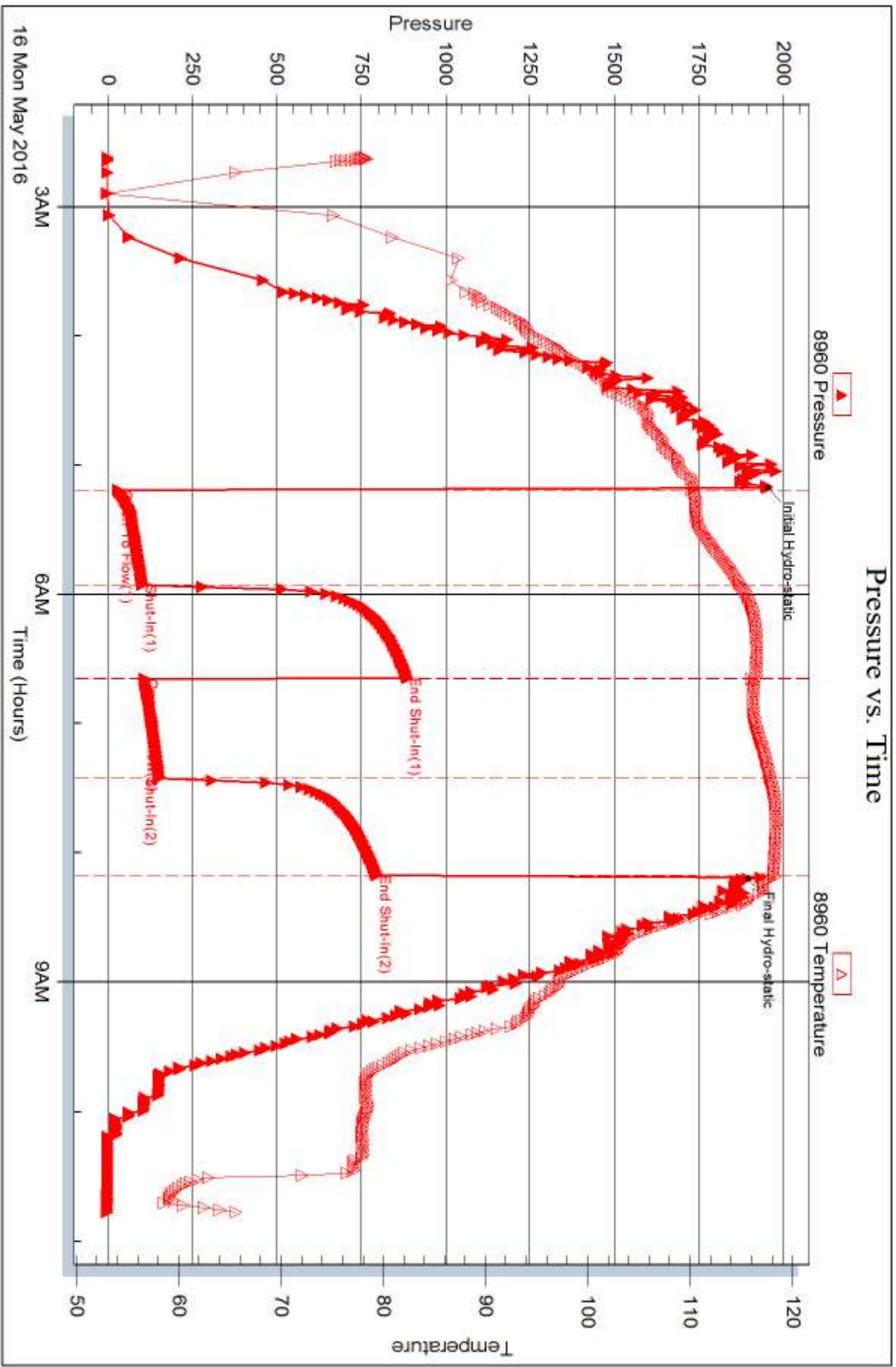


Serial #: 8960

Outside Dow n ing Nelson Oil Company Inc

Penka #1-30

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company Inc**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Penka #1-30

30-17S-18W/ Rush,KS

Start Date: 2016.05.05 @ 10:00:00

End Date: 2016.05.05 @ 16:05:30

Job Ticket #: 65090 DST #: 2

Trilobite Testing, Inc

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

Printed: 2016.05.06 @ 08:43:00



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DRILL STEM TEST REPORT

Downing Nelson Oil Company Inc

30-17S-18W/ Rush,KS

PO Box 1019
Hays KS 67601

Penka #1-30

Job Ticket: 65090

DST#: 2

ATTN: Marc Downing

Test Start: 2016.05.05 @ 10:00:00

GENERAL INFORMATION:

Formation: **Conglomerate Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:15:30

Time Test Ended: 16:05:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3823.00 ft (KB) To 3894.00 ft (KB) (TVD)

Reference Elevations: 2124.00 ft (KB)

Total Depth: 3977.00 ft (KB) (TVD)

2113.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6741

Inside

Press@RunDepth: psig @ 3823.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.05

End Date:

2016.05.05

Last Calib.:

2016.05.05

Start Time: 10:00:05

End Time:

16:05:29

Time On Btm:

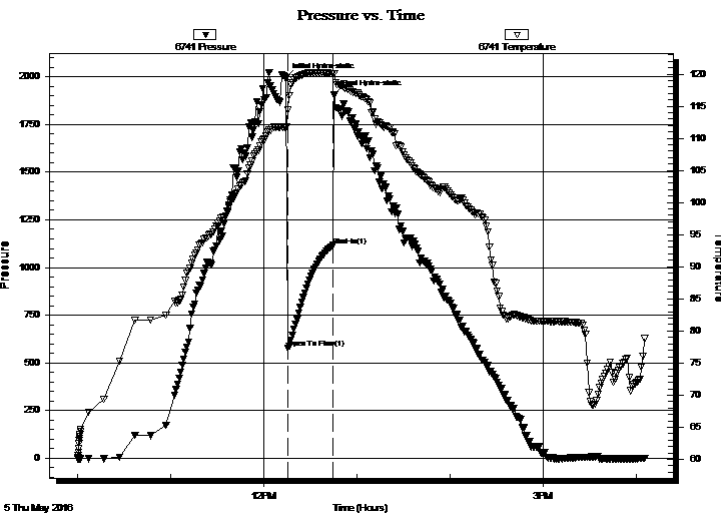
2016.05.05 @ 12:14:00

Time Off Btm:

2016.05.05 @ 12:45:30

TEST COMMENT: IFP 30 minutes BOB in 30 seconds

Pull test after initial flow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1993.31	111.72	Initial Hydro-static
2	577.86	114.36	Open To Flow (1)
31	1115.57	120.06	Shut-In(1)
32	1904.70	120.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2360.00	MW Mud 15% Water 85%	32.01

Gas Rates

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



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DRILL STEM TEST REPORT

Downing Nelson Oil Company Inc

30-17S-18W/ Rush,KS

PO Box 1019
Hays KS 67601

Penka #1-30

Job Ticket: 65090

DST#: 2

ATTN: Marc Downing

Test Start: 2016.05.05 @ 10:00:00

GENERAL INFORMATION:

Formation: **Conglomerate Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:15:30

Time Test Ended: 16:05:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3823.00 ft (KB) To 3894.00 ft (KB) (TVD)

Reference Elevations: 2124.00 ft (KB)

Total Depth: 3977.00 ft (KB) (TVD)

2113.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8960 Outside

Press@RunDepth: psig @ 3823.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.05 End Date: 2016.05.05

Last Calib.: 2016.05.05

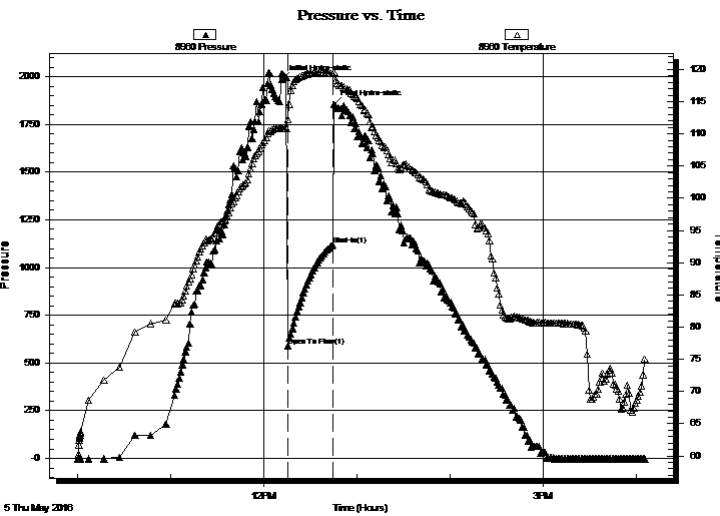
Start Time: 10:00:05 End Time: 16:05:29

Time On Btm: 2016.05.05 @ 12:12:00

Time Off Btm: 2016.05.05 @ 12:45:30

TEST COMMENT: IFP 30 minutes BOB in 30 seconds

Pull test after initial flow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.33	110.84	Initial Hydro-static
4	590.63	112.28	Open To Flow (1)
33	1118.63	119.37	Shut-In(1)
34	1852.76	119.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2360.00	MW Mud 15% Water 85%	32.01

Gas Rates

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



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Downing Nelson Oil Company Inc

30-17S-18W/ Rush,KS

PO Box 1019
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Penka #1-30

Job Ticket: 65090

DST#: 2

ATTN: Marc Downing

Test Start: 2016.05.05 @ 10:00:00

GENERAL INFORMATION:

Formation: **Conglomerate Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:15:30

Time Test Ended: 16:05:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3823.00 ft (KB) To 3894.00 ft (KB) (TVD)

Reference Elevations: 2124.00 ft (KB)

Total Depth: 3977.00 ft (KB) (TVD)

2113.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8521 Below (Straddle)

Press@RunDepth: psig @ 3908.82 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.05 End Date: 2016.05.05

Last Calib.: 2016.05.05

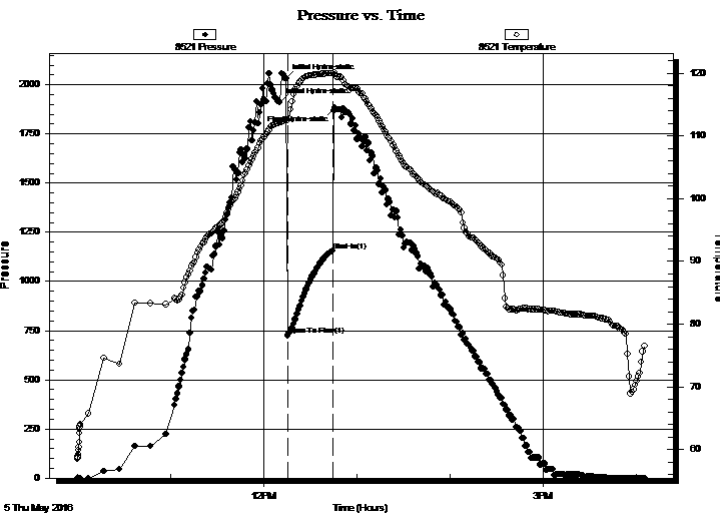
Start Time: 10:00:05 End Time: 16:05:29

Time On Btm: 2016.05.05 @ 12:10:30

Time Off Btm: 2016.05.05 @ 12:46:00

TEST COMMENT: IFP 30 minutes BOB in 30 seconds

Pull test after initial flow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.19	112.12	Initial Hydro-static
4	2031.45	112.49	Initial Hydro-static
5	725.26	112.43	Open To Flow (1)
34	1156.89	119.93	Shut-In(1)
36	1883.56	119.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2360.00	MW Mud 15% Water 85%	32.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Company Inc

30-17S-18W/ Rush,KS

PO Box 1019
Hays KS 67601

Penka #1-30

Job Ticket: 65090

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.05.05 @ 10:00:00

Tool Information

Drill Pipe:	Length: 3717.00 ft	Diameter: 3.80 inches	Volume: 52.14 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:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 52.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.85 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3823.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	3892.37 ft				
Interval betw een Packers:	69.37 ft				
Tool Length:	170.06 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3811.15	
Hydraulic tool	5.00			3816.15	
Top Packer	5.00			3821.15	
Packer	1.85			3823.00	16.85 Bottom Of Top Packer
Recorder	0.00	8960	Outside	3823.00	
Recorder	0.00	6741	Inside	3823.00	
Anchor	32.00			3855.00	
Change Over Sub	1.02			3856.02	
Drill Pipe	31.55			3887.57	
Change Over Sub	0.85			3888.42	
Blank Off Sub	1.00			3889.42	
Packer (anchor side)	2.95			3892.37	69.37 Tool Interval
Packer	1.00			3893.37	
Stubb	1.60			3894.97	
Anchor	13.00			3907.97	
Change Over Sub	0.85			3908.82	
Recorder	0.00	8521	Below	3908.82	
Drill Pipe	63.47			3972.29	
Change Over Sub	0.92			3973.21	
Bullnose	3.00			3976.21	83.84 Bottom Packers & Anchor

Total Tool Length: 170.06



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company Inc

30-17S-18W/ Rush,KS

PO Box 1019
Hays KS 67601

Penka #1-30

Job Ticket: 65090

DST#: 2

ATTN: Marc Downing

Test Start: 2016.05.05 @ 10:00:00

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:

26000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2360.00	MW Mud 15% Water 85%	32.011

Total Length: 2360.00 ft Total Volume: 32.011 bbl

Num Fluid Samples: 0

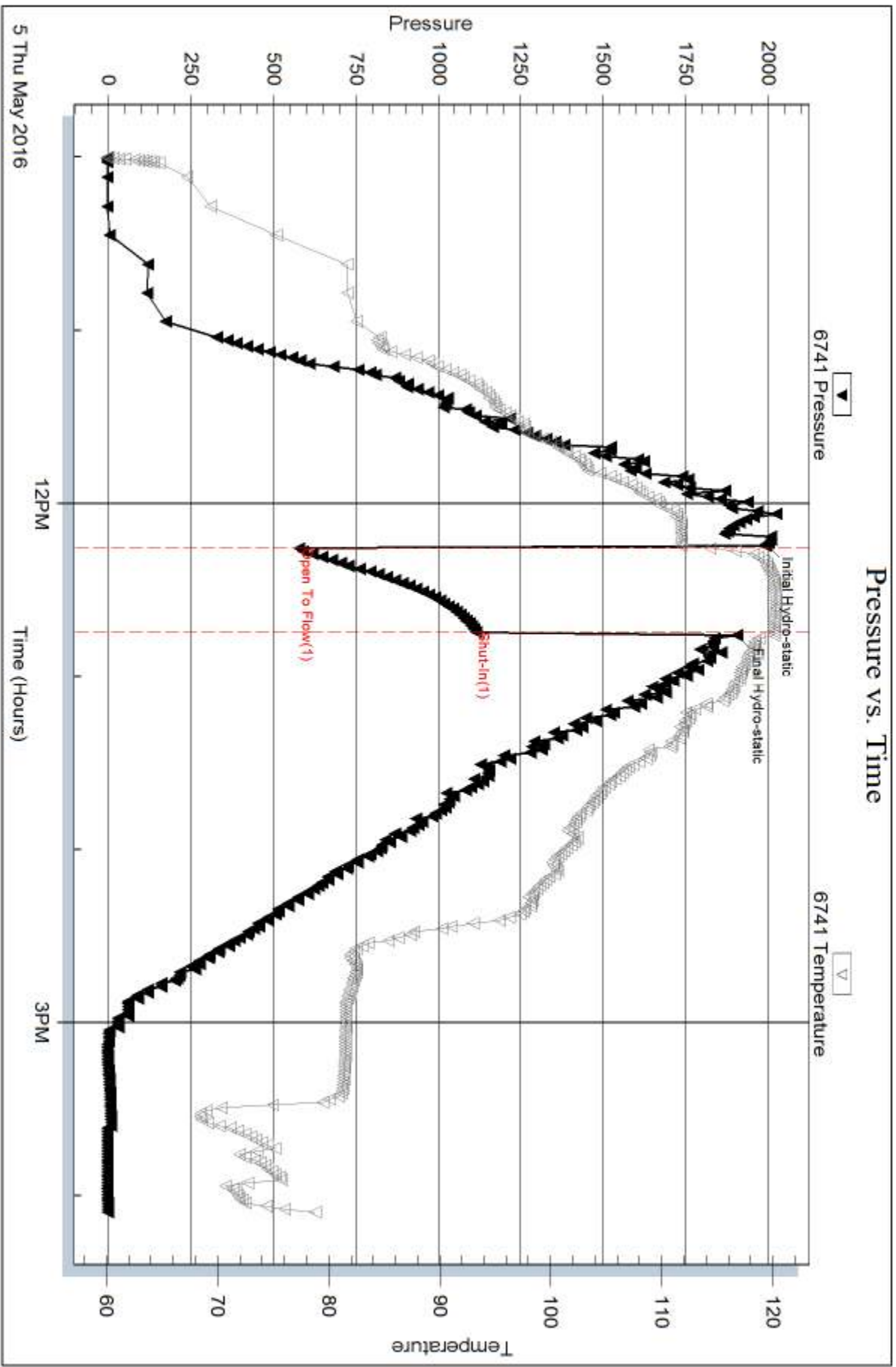
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

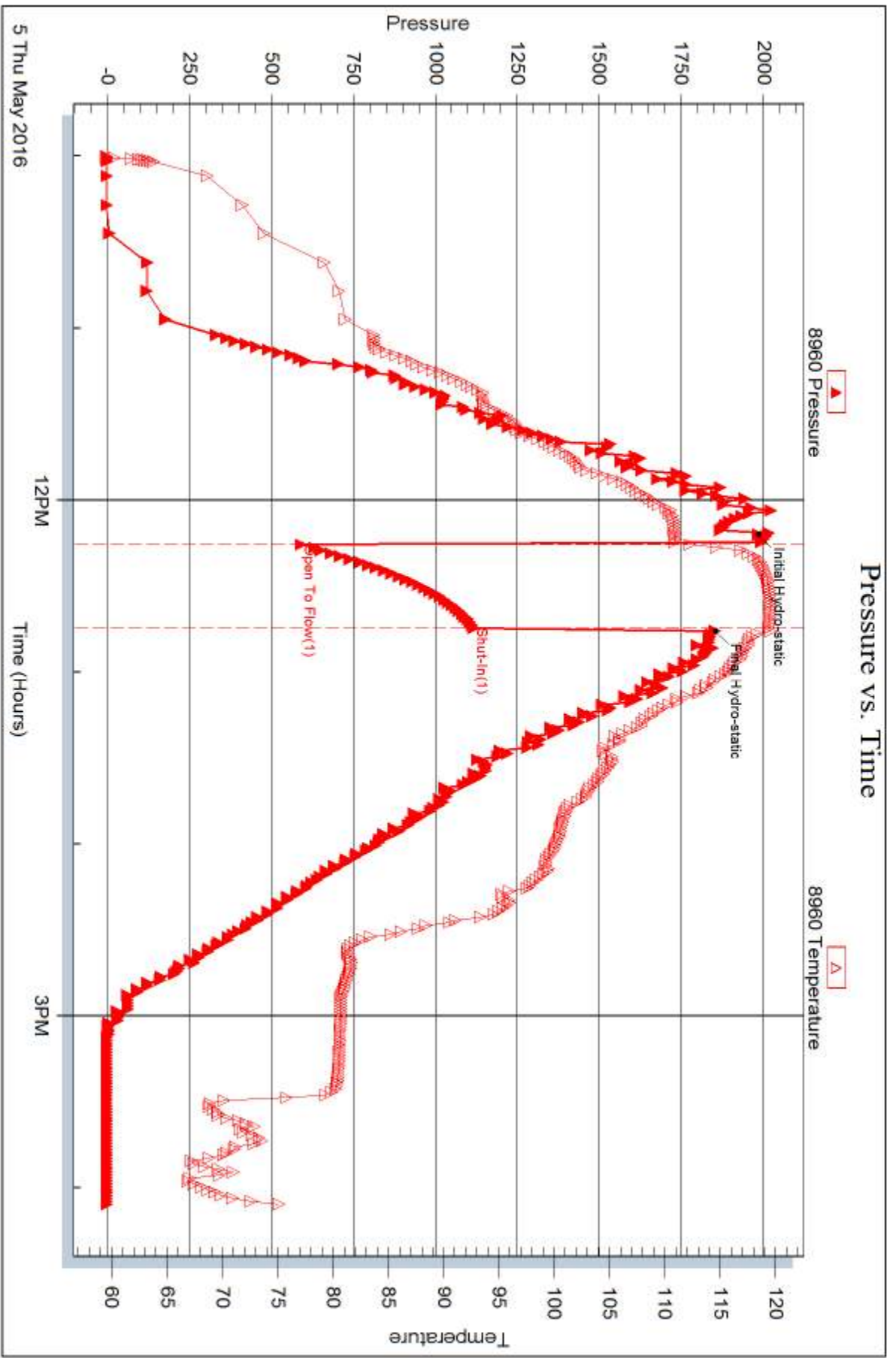


Serial #: 8960

Outside Dow ning Nelson Oil Company Inc

Penka #1-30

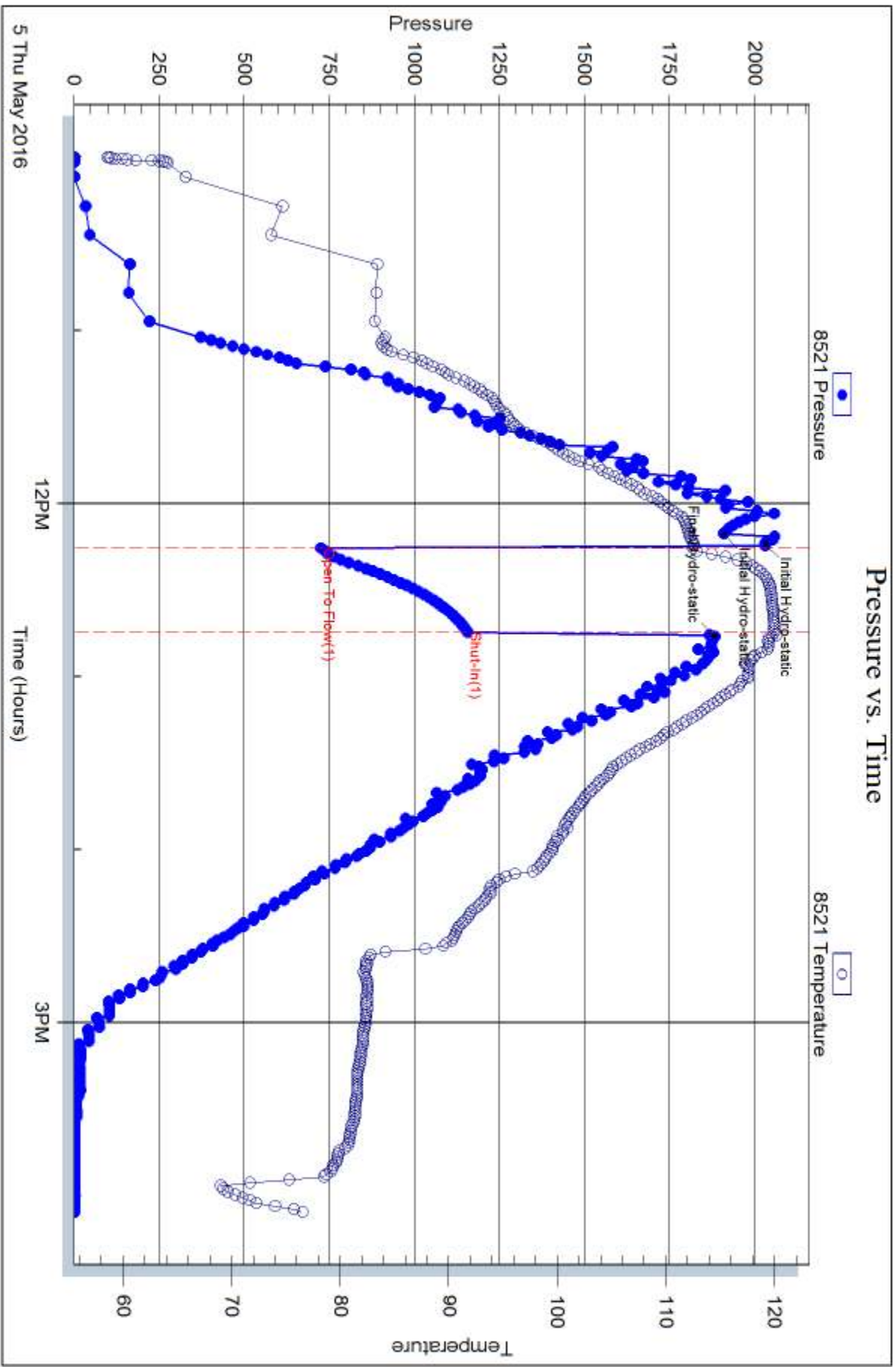
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65090

Printed: 2016.05.06 @ 08:43:02





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65089**

Well Name & No. Penka #1-30 Test No. 1 Date 4 MAY 16
 Company Downing-Nelson Oil Company Inc. Elevation 2124 KB 213 GL
 Address PO Box 1019 Hays Kansas 67601
 Co. Rep/Geo. Marc Downing Rig Integrity Rig 7
 Location: Sec. 30 Twp. 17S Rge. 18W Co. Rush State KS

Interval Tested 3825-3848 Zone Tested Conglomerate Sand
 Anchor Length 23 Drill Pipe Run 3714 Mud Wt. 9.6
 Top Packer Depth 3820 Drill Collars Run 120 Vis 6.0
 Bottom Packer Depth 3825 Wt. Pipe Run 420 WL 8.0
 Total Depth 3848 Chlorides 2500 ppm System LCM 1#
 Blow Description Initial flow-blow built to bottom of bucket in 36 minutes
Initial shut in-no blow back
Final flow-blow built to 8 1/2 inches
Final shut in-no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>0.1 out Muddy Water</u>	<u>5</u>	<u>65</u>	<u>30</u>	<u></u>
<u>30</u>	<u>Clean 0.1</u>	<u>100</u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

Rec Total 3415 BHT 119 Gravity 34 API RW .2 @ 70 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic <u>1954</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1:18 am</u>
(B) First Initial Flow <u>35</u>	<input type="checkbox"/> Jars	T-Started <u>2:30 am</u>
(C) First Final Flow <u>99</u>	<input type="checkbox"/> Safety Joint	T-Open <u>5:10 am</u>
(D) Initial Shut-In <u>883</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>8:10 am</u>
(E) Second Initial Flow <u>105</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:45 am</u>
(F) Second Final Flow <u>147</u>	<input checked="" type="checkbox"/> Mileage <u>66</u> <u>49.50</u>	Comments
(G) Final Shut-In <u>793</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1894</u>	<input type="checkbox"/> Straddle	
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Extra Copies
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1099.50</u>
	Sub Total <u>1099.50</u>	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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65090**

Well Name & No. Penka #1-30 Test No. 2 Date 5 MAY 16
 Company Downing Nelson O.I. Company Inc Elevation 2124 KB 2113 GL
 Address PO Box 1019 Hays Kansas 67601
 Co. Rep / Geo. Marc Downing Rig Integrity Rig 7
 Location: Sec. 30 Twp. 17S Rge. 18W Co. Rush State KS

Interval Tested 3823-3894 Zone Tested Conglomerate Sand
 Anchor Length 71 Drill Pipe Run 3897 Mud Wt. 9.3
 Top Packer Depth 3818 Drill Collars Run 120 Vis 52
 Bottom Packer Depth 3823 Wt. Pipe Run — WL 7.6
 Total Depth 3977 Chlorides 4000 ppm System LCM 2#
 Blow Description Initial Flow - blow built to bottom of bucket in 30 seconds
Pull test after initial flow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2360</u>	<u>Muddy Water</u>			<u>85%</u>	<u>15%</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 2360 BHT 119 Gravity _____ API RW .24 @ 84 °F Chlorides 26000 ppm

(A) Initial Hydrostatic 1993 Test 850 T-On Location 8:19 am
 (B) First Initial Flow 577 Jars _____ T-Started 9:59 am
 (C) First Final Flow 1115 Safety Joint _____ T-Open 12:14 pm
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 12:44 pm
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 4:05 pm
 (F) Second Final Flow _____ Mileage 66 49.50 Comments _____
 (G) Final Shut-In 1904 Sampler _____
 (H) Final Hydrostatic 1904 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1499.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1499.50

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.