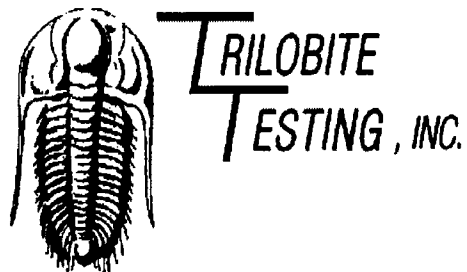


15-065-22940

12-6s-22w



DRILL STEM TEST REPORT

Prepared For: **Northern Lights Oil Co.,LC**

P.O. Box 164
Andover,Ks.67002

ATTN: Kurt Smith

12-6s-22w

Marie # 1

Start Date: 2003.10.12 @ 17:32:40

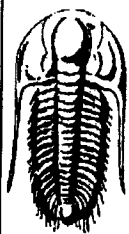
End Date: 2003.10.12 @ 23:58:16

Job Ticket #: 18828 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Northern Lights Oil Co., LC

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

Marie # 1

12-6s-22w

Job Ticket: 18828

DST#: 1

Test Start: 2003.10.12 @ 17:32:40

GENERAL INFORMATION:

Formation: **Oread - A**

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

Time Tool Opened: 19:17:46

Time Test Ended: 23:58:16

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3357.00 ft (KB) To 3376.00 ft (KB) (TVD)**

Total Depth: **3376.00 ft (KB) (TVD)**

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

Reference Elevations: **2221.00 ft (KB)**

2216.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **219.18 psig @ 3359.00 ft (KB)**

Start Date: **2003.10.12**

End Date: **2003.10.12**

Capacity: **7000.00 psig**

Last Calib.: **2003.10.13**

Start Time: **17:32:41**

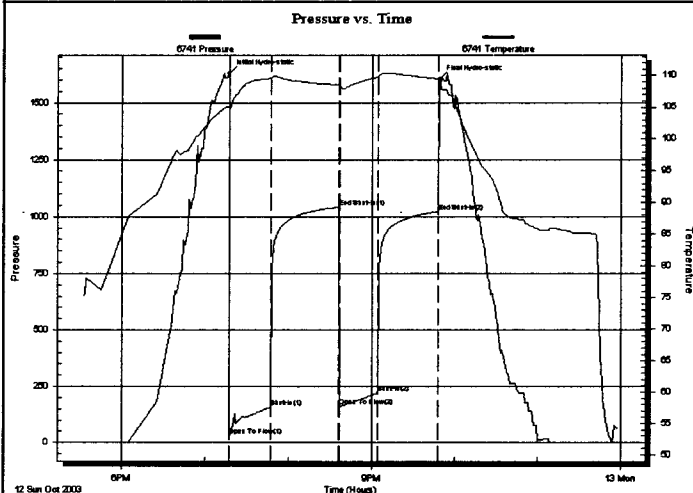
End Time: **23:58:16**

Time On Btm: **2003.10.12 @ 19:17:16**

Time Off Btm: **2003.10.12 @ 21:48:46**

TEST COMMENT: **F-Strong B.O.B. 10 min.**
FF-Strong B.O.B. 18 min.

ISI-Weak Surface blow back
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.49	105.12	Initial Hydro-static
1	28.80	104.89	Open To Flow (1)
30	156.15	109.54	Shut-In (1)
80	1042.23	108.55	End Shut-In (1)
80	162.19	108.36	Open To Flow (2)
107	219.18	109.78	Shut-In (2)
151	1022.25	109.49	End Shut-In (2)
152	1605.07	109.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	Gassy Oil 5% gas 95% Oil	6.17
0.00	80 Gas in pipe	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil Co., LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18828

DST#: 1

ATTN: Kurt Smith

Test Start: 2003.10.12 @ 17:32:40

Tool Information

Drill Pipe:	Length: 3105.00 ft	Diameter: 3.80 inches	Volume: 43.55 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose:	55000.00 lb
		Total Volume:	44.76 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3357.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	38.00 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			3343.00	
Hydraulic tool	5.00			3348.00	
Packer	4.00			3352.00	19.00 Bottom Of Top Packer
Packer	5.00		Fluid	3357.00	
Stubb	1.00			3358.00	
Perforations	1.00			3359.00	
Recorder	0.00	6741	Inside	3359.00	
Perforations	14.00			3373.00	
Recorder	0.00	13308	Outside	3373.00	
Bullnose	3.00			3376.00	19.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18828

DST#: 1

ATTN: Kurt Smith

Test Start: 2003.10.12 @ 17:32:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
600.00	Gassy Oil 5%gas 95%Oil	6.166
0.00	80 Gas in pipe	0.000

Total Length: 600.00 ft

Total Volume: 6.166 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

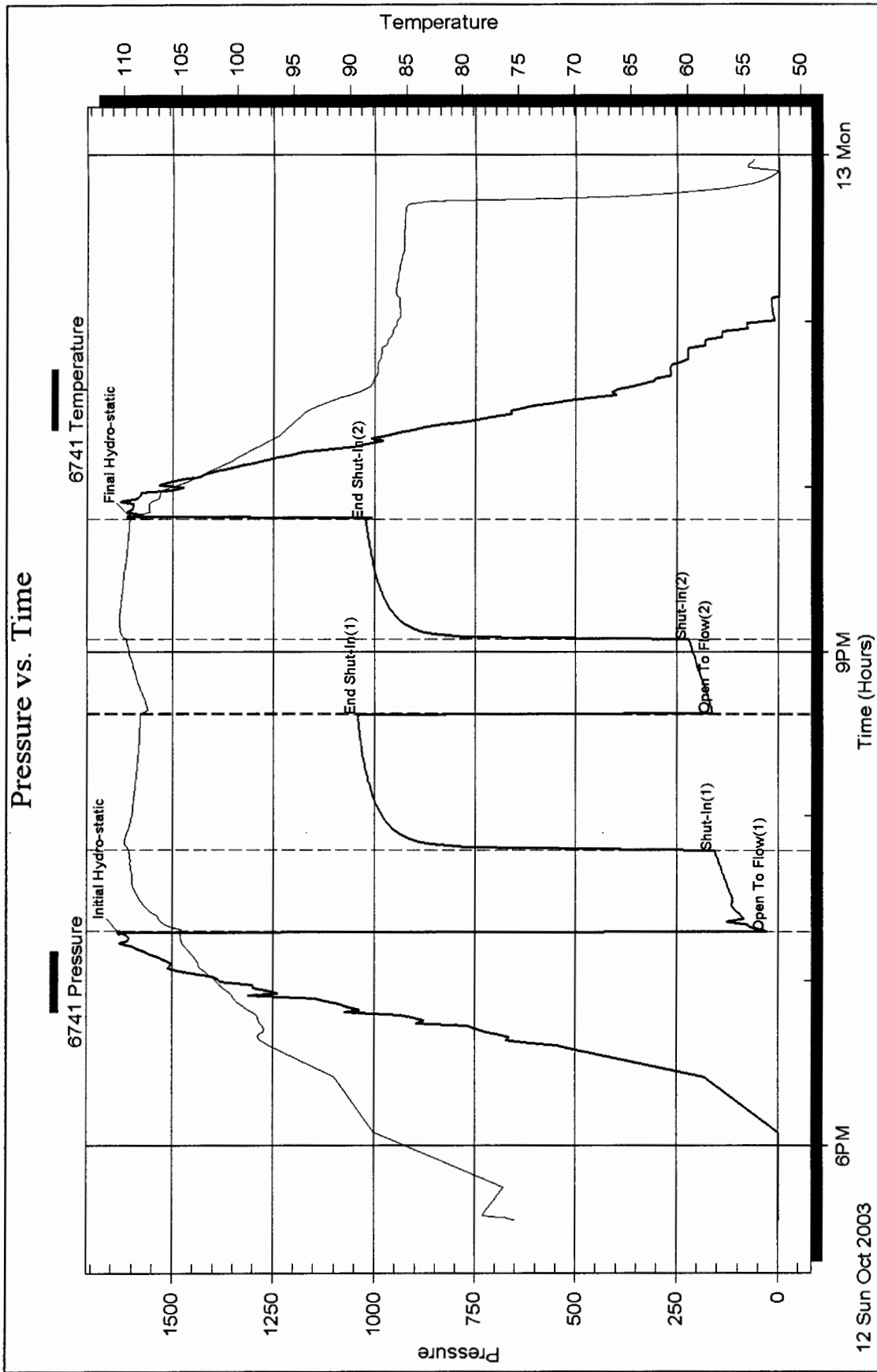
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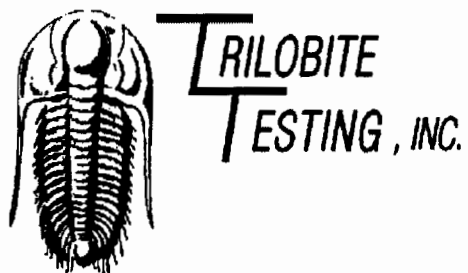
Inside

Northern Lights Oil Co., LC

12--6s--22w

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Northern Lights Oil Co.,LC**

P.O. Box 164
Andover,Ks.67002

ATTN: Kurt Smith

12-6s-22w

Marie # 1

Start Date: 2003.10.13 @ 05:02:52

End Date: 2003.10.13 @ 10:47:57

Job Ticket #: 18829 .DST #: 2

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Northern Lights Oil Co.,LC

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

Marie # 1

12-6s-22w

Job Ticket: 18829

DST#: 2

Test Start: 2003.10.13 @ 05:02:52

GENERAL INFORMATION:

Formation: **Oread-B**

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

Time Tool Opened: 06:20:27

Time Test Ended: 10:47:57

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3379.00 ft (KB) To 3400.00 ft (KB) (TVD)**

Total Depth: **3400.00 ft (KB) (TVD)**

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

Reference Elevations: **2221.00 ft (KB)**

2216.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6741 Inside

Press@RunDepth: **469.26 psig @ 3383.00 ft (KB)**

Start Date: **2003.10.13**

End Date: **2003.10.13**

Start Time: **05:02:53**

End Time: **10:47:57**

Capacity: **7000.00 psig**

Last Calib.: **2003.10.13**

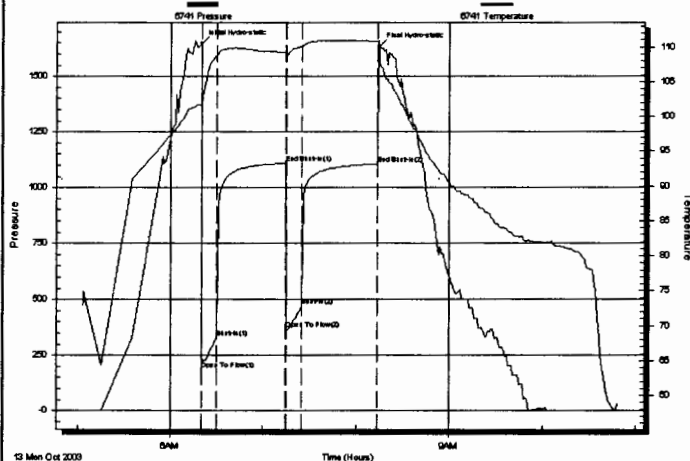
Time On Btm: **2003.10.13 @ 06:19:57**

Time Off Btm: **2003.10.13 @ 08:14:57**

TEST COMMENT: IF-Strong B.O.B. in 1 min.
FF-Strong B.O.B. in 1 min.

ISI-Good blow back 2" in
FSI-Good blow back 3" in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.85	101.74	Initial Hydro-static
1	188.24	101.71	Open To Flow (1)
10	327.92	108.87	Shut-In (1)
55	1107.23	109.28	End Shut-In (1)
55	369.14	109.11	Open To Flow (2)
65	469.26	110.08	Shut-In (2)
114	1105.44	110.81	End Shut-In (2)
115	1635.93	107.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1160.00	Gassy Oil 10% gas 90% Oil	14.02
0.00	260 Gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18829

DST#: 2

ATTN: Kurt Smith

Test Start: 2003.10.13 @ 05:02:52

Tool Information

Drill Pipe:	Length: 3136.00 ft	Diameter: 3.80 inches	Volume: 43.99 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 45.20 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3379.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Shut In Tool	5.00			3365.00	
Hydraulic tool	5.00			3370.00	
Packer	4.00			3374.00	19.00 Bottom Of Top Packer
Packer	5.00		Fluid	3379.00	
Stubb	1.00			3380.00	
Perforations	3.00			3383.00	
Recorder	0.00	6741	Inside	3383.00	
Perforations	14.00			3397.00	
Recorder	0.00	13308	Outside	3397.00	
Bullnose	3.00			3400.00	21.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18829

DST#: 2

ATTN: Kurt Smith

Test Start: 2003.10.13 @ 05:02:52

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1160.00	Gassy Oil 10%gas 90%Oil	14.022
0.00	260 Gas in pipe	0.000

Total Length: 1160.00 ft

Total Volume: 14.022 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

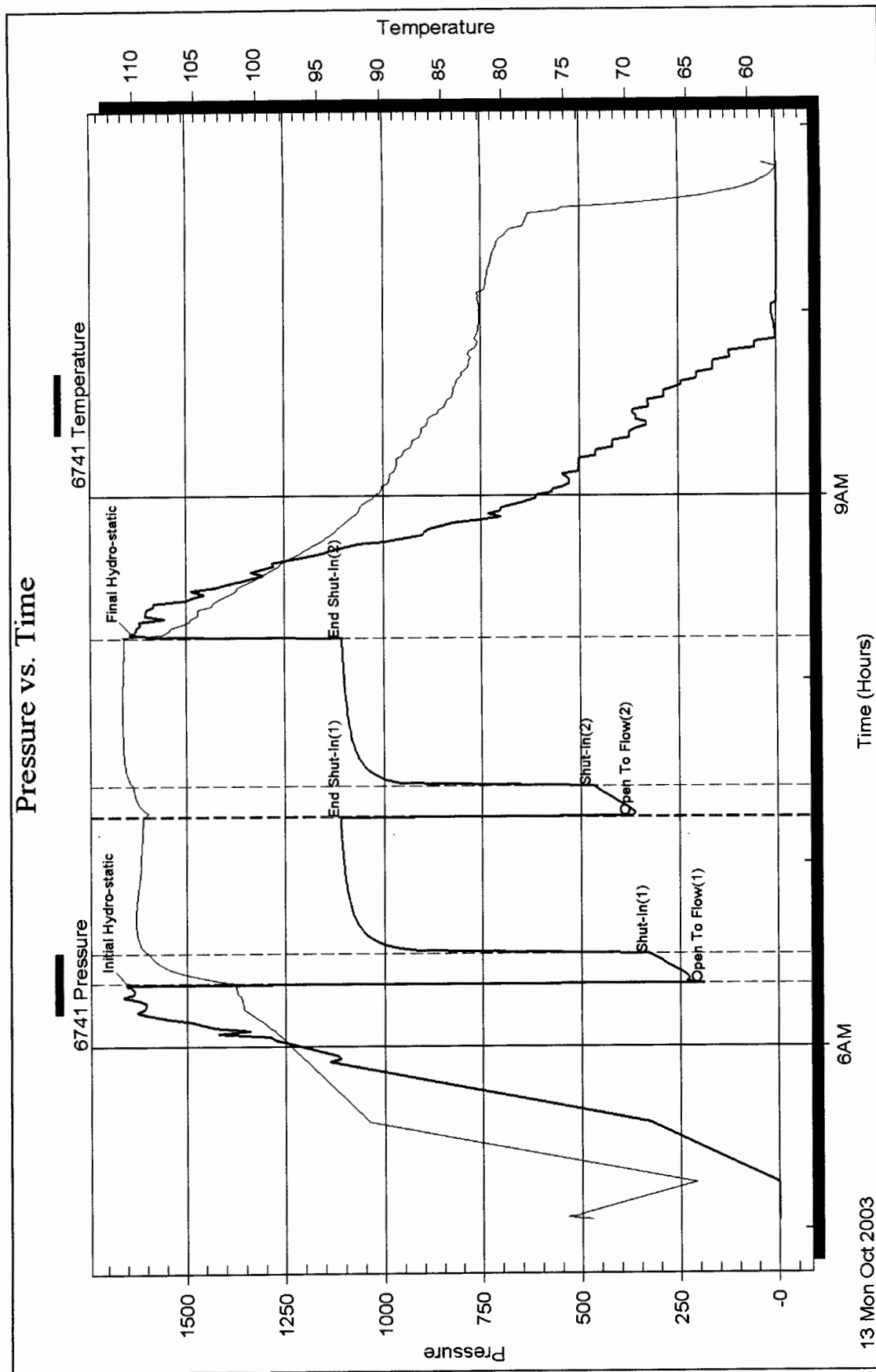
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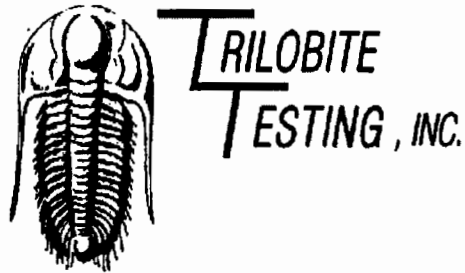
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Northern Lights Oil Co.,LC**

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

12-6s-22w

Marie # 1

Start Date: 2003.10.13 @ 18:05:34

End Date: 2003.10.14 @ 00:42:08

Job Ticket #: 18830 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Northern Lights Oil Co., LC

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

Marie # 1

12-6s-22w

Job Ticket: 18830

DST#: 3

Test Start: 2003.10.13 @ 18:05:34

GENERAL INFORMATION:

Formation: **Toronto-L.Kc.-A**

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

Time Tool Opened: 19:46:08

Time Test Ended: 00:42:08

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3405.00 ft (KB) To 3460.00 ft (KB) (TVD)**

Total Depth: **3460.00 ft (KB) (TVD)**

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

Reference Elevations: **2221.00 ft (KB)**

2216.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **863.12 psig @ 3411.00 ft (KB)**

Start Date: **2003.10.13**

End Date:

2003.10.14

Start Time: **18:05:35**

End Time:

00:42:07

Capacity: **7000.00 psig**

Last Calib.: **2003.10.14**

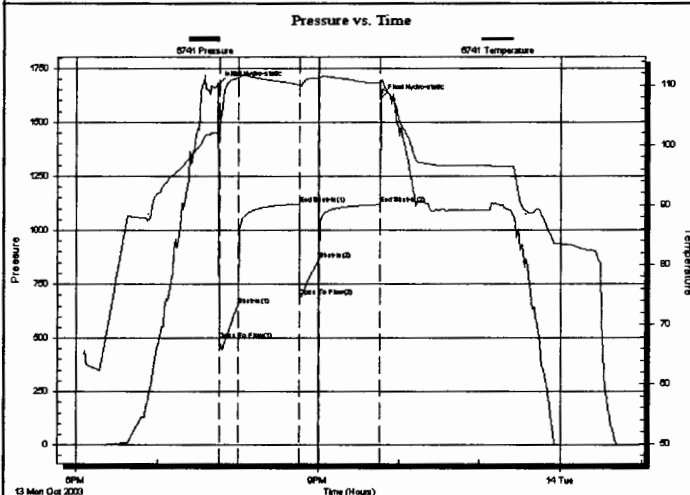
Time On Btm: **2003.10.13 @ 19:45:08**

Time Off Btm: **2003.10.13 @ 21:46:08**

TEST COMMENT: **IF-Strong B.O.B. 1 min.**
FF-Strong B.O.B. 1 min.

ISI-Strong blow back B.O.B. 15 min.
FSI-Strong blow back B.O.B. 10 min.

G.T.S.in 15 min FSI. will burn.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1673.67	102.10	Initial Hydro-static
1	491.94	102.70	Open To Flow (1)
15	652.36	111.18	Shut-In (1)
61	1121.01	110.08	End Shut-In (1)
61	692.07	109.79	Open To Flow (2)
76	863.12	111.26	Shut-In (2)
121	1118.95	110.38	End Shut-In (2)
121	1610.36	110.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2295.00	Gassy Oil 15% gas 85% Oil	29.94
0.00	gas to surface	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil Co., LC

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

Marie # 1

12-6s-22w

Job Ticket: 18830

DST#: 3

Test Start: 2003.10.13 @ 18:05:34

Tool Information

Drill Pipe:	Length: 3168.00 ft	Diameter: 3.80 inches	Volume: 44.44 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 45.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3405.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	74.00 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			3391.00	
Hydraulic tool	5.00			3396.00	
Packer	4.00			3400.00	19.00 Bottom Of Top Packer
Packer	5.00		Fluid	3405.00	
Stubb	1.00			3406.00	
Perforations	4.00			3410.00	
Change Over Sub	1.00			3411.00	
Recorder	0.00	6741	Inside	3411.00	
Blank Spacing	31.00			3442.00	
Change Over Sub	1.00			3443.00	
Recorder	0.00	11084	Outside	3443.00	
Perforations	14.00			3457.00	
Bullnose	3.00			3460.00	55.00 Bottom Packers & Anchor

Total Tool Length: 74.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Northern Lights Oil Co., LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18830

DST#: 3

ATTN: Kurt Smith

Test Start: 2003.10.13 @ 18:05:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2295.00	Gassy Oil 15%gas 85%Oil	29.943
0.00	gas to surface	0.000

Total Length: 2295.00 ft

Total Volume: 29.943 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

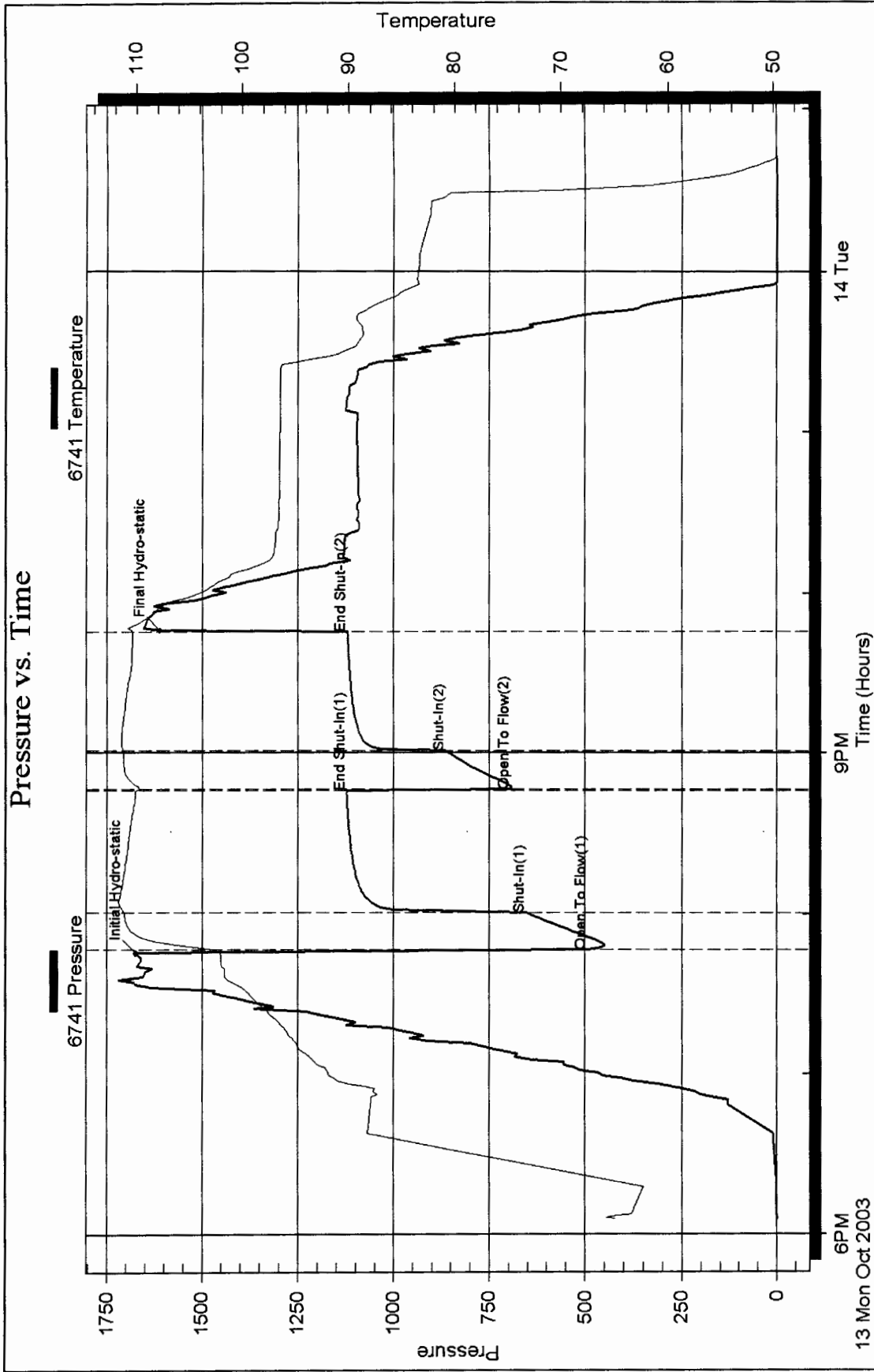
Inside

Northern Lights Oil Co., LC

12--6s--22w

DST Test Number: 3

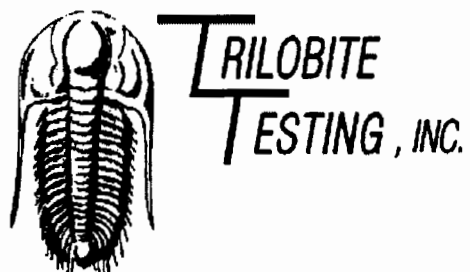
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 18830

Printed: 2003.10.23 @ 11:11:43 Page 5



DRILL STEM TEST REPORT

Prepared For: **Northern Lights Oil Co.,LC**

P.O. Box 164
Andover,Ks.67002

ATTN: Kurt Smith

12-6s-22w

Marie # 1

Start Date: 2003.10.14 @ 06:40:42

End Date: 2003.10.14 @ 12:31:47

Job Ticket #: 18831 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Northern Lights Oil Co., LC

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

Marie # 1

12-6s-22w

Job Ticket: 18831

DST#: 4

Test Start: 2003.10.14 @ 06:40:42

GENERAL INFORMATION:

Formation: **L.Kc.-C**

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

Time Tool Opened: 08:31:17

Time Test Ended: 12:31:47

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3470.00 ft (KB) To 3494.00 ft (KB) (TVD)**

Total Depth: **3494.00 ft (KB) (TVD)**

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

Reference Elevations: **2221.00 ft (KB)**

2216.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6741 **Inside**

Press@RunDepth: **184.26 psig @ 3472.00 ft (KB)**

Start Date: **2003.10.14**

End Date: **2003.10.14**

Start Time: **06:40:43**

End Time: **12:31:47**

Capacity: **7000.00 psig**

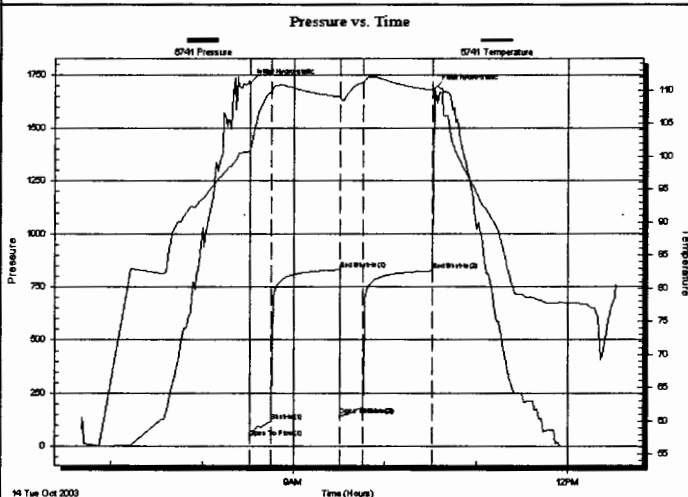
Last Calib.: **2003.10.14**

Time On Btm: **2003.10.14 @ 08:30:47**

Time Off Btm: **2003.10.14 @ 10:31:47**

TEST COMMENT: IF-Strong B.O.B. 4 min.
FF-Strong B.O.B. 4 min.

ISI-Strong blow back B.O.B. 14 min.
FSI-Strong blow back B.O.B. 10 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1713.02	100.81	Initial Hydro-static
1	40.40	100.74	Open To Flow (1)
15	120.63	109.92	Shut-In(1)
60	829.71	108.99	End Shut-In(1)
60	146.91	108.77	Open To Flow (2)
75	184.26	111.13	Shut-In(2)
120	825.19	110.00	End Shut-In(2)
121	1683.21	110.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	GMCO-30%G-30%M-40%oil	0.98
300.00	Gassy Oil 10%gas 90%oil	3.78
0.00	680 GAS IN PIPE	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil Co., LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18831

DST#: 4

ATTN: Kurt Smith

Test Start: 2003.10.14 @ 06:40:42

Tool Information

Drill Pipe:	Length: 3229.00 ft	Diameter: 3.80 inches	Volume: 45.29 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume:	46.50 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3470.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	43.00 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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Shut In Tool	5.00			3456.00	
Hydraulic tool	5.00			3461.00	
Packer	4.00			3465.00	19.00 Bottom Of Top Packer
Packer	5.00		Fluid	3470.00	
Stubb	1.00			3471.00	
Perforations	1.00			3472.00	
Recorder	0.00	6741	Inside	3472.00	
Perforations	19.00			3491.00	
Recorder	0.00	13308	Outside	3491.00	
Bullnose	3.00			3494.00	24.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18831

DST#: 4

ATTN: Kurt Smith

Test Start: 2003.10.14 @ 06:40:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	GMCO-30%G-30%M-40%oil	0.984
300.00	Gassy Oil 10%gas 90%oil	3.780
0.00	680 GAS IN PIPE	0.000

Total Length: 500.00 ft

Total Volume: 4.764 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

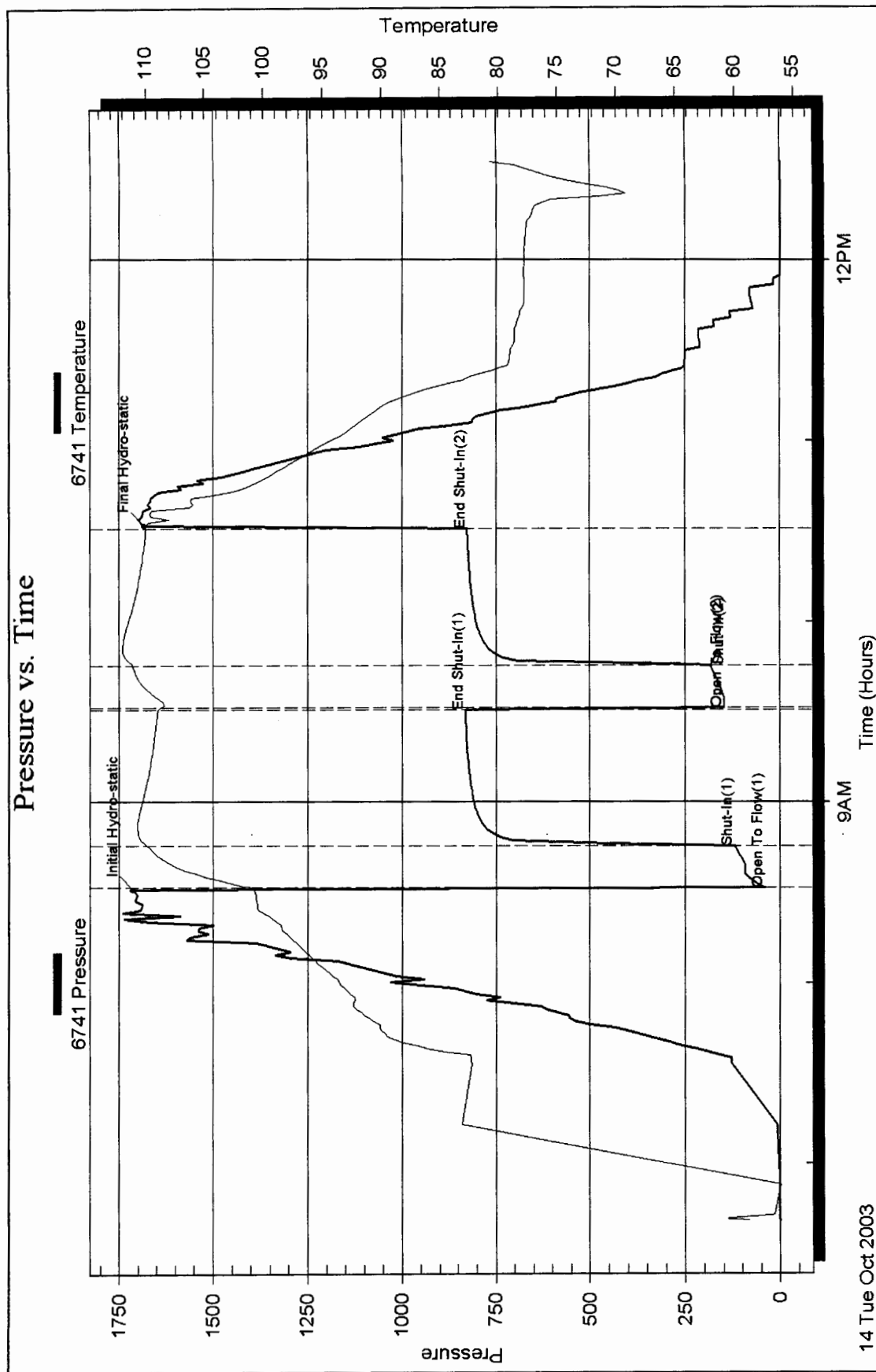
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Northern Lights Oil Co.,LC**

P.O. Box 164
Andover,Ks.67002

ATTN: Kurt Smith

12-6s-22w

Marie # 1

Start Date: 2003.10.14 @ 17:32:40

End Date: 2003.10.14 @ 00:00:00

Job Ticket #: 18832 DST #: 5

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



Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18832

DST#: 5

ATTN: Kurt Smith

Test Start: 2003.10.14 @ 17:32:40

Formation: L.Kc.-C

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: 3490.00 ft (KB) To 3505.00 ft (KB) (TVD)

Reference Elevations: 2221.00 ft (KB)

Total Depth: 3505.00 ft (KB) (TVD)

2216.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6741

Inside

Press@RunDepth: psig @ 3492.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.10.14

End Date: 2003.10.14

Last Calib.: 2003.10.14

Start Time: 18:06:00

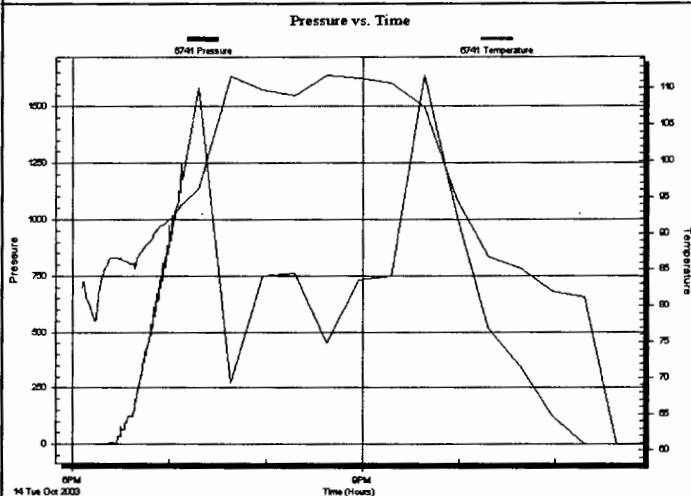
End Time: 23:37:59

Time On Btm:

Time Off Btmc

TEST COMMENT: IF-Strong B.O.B.in 1 min.
FF-

IS-Weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
500.00	Salt water	4.76
250.00	GOCMW-15%G-15%O-10%M-60%W	3.51
290.00	GOCMW-20%G-15%O-25%M-40%W	4.07
20.00	Free Oil	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18832

DST#: 5

ATTN: Kurt Smith

Test Start: 2003.10.14 @ 17:32:40

Tool Information

Drill Pipe:	Length: 3232.00 ft	Diameter: 3.80 inches	Volume: 45.34 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: lb
		Total Volume: 46.55 bbl		Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3490.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	34.00 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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Shut In Tool	5.00			3476.00	
Hydraulic tool	5.00			3481.00	
Packer	4.00			3485.00	19.00 Bottom Of Top Packer
Packer	5.00		Fluid	3490.00	
Stubb	1.00			3491.00	
Perforations	1.00			3492.00	
Recorder	0.00	6741	Inside	3492.00	
Perforations	10.00			3502.00	
Recorder	0.00	13308	Outside	3502.00	
Bullnose	3.00			3505.00	15.00 Bottom Packers & Anchor
Total Tool Length:	34.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18832

DST#: 5

ATTN: Kurt Smith

Test Start: 2003.10.14 @ 17:32:40

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	Salt water	4.764
250.00	GOCMW-15%G-15%O-10%M-60%W	3.507
290.00	GOCMW-20%G-15%O-25%M-40%W	4.068
20.00	Free Oil	0.281

Total Length: 1060.00 ft

Total Volume: 12.620 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

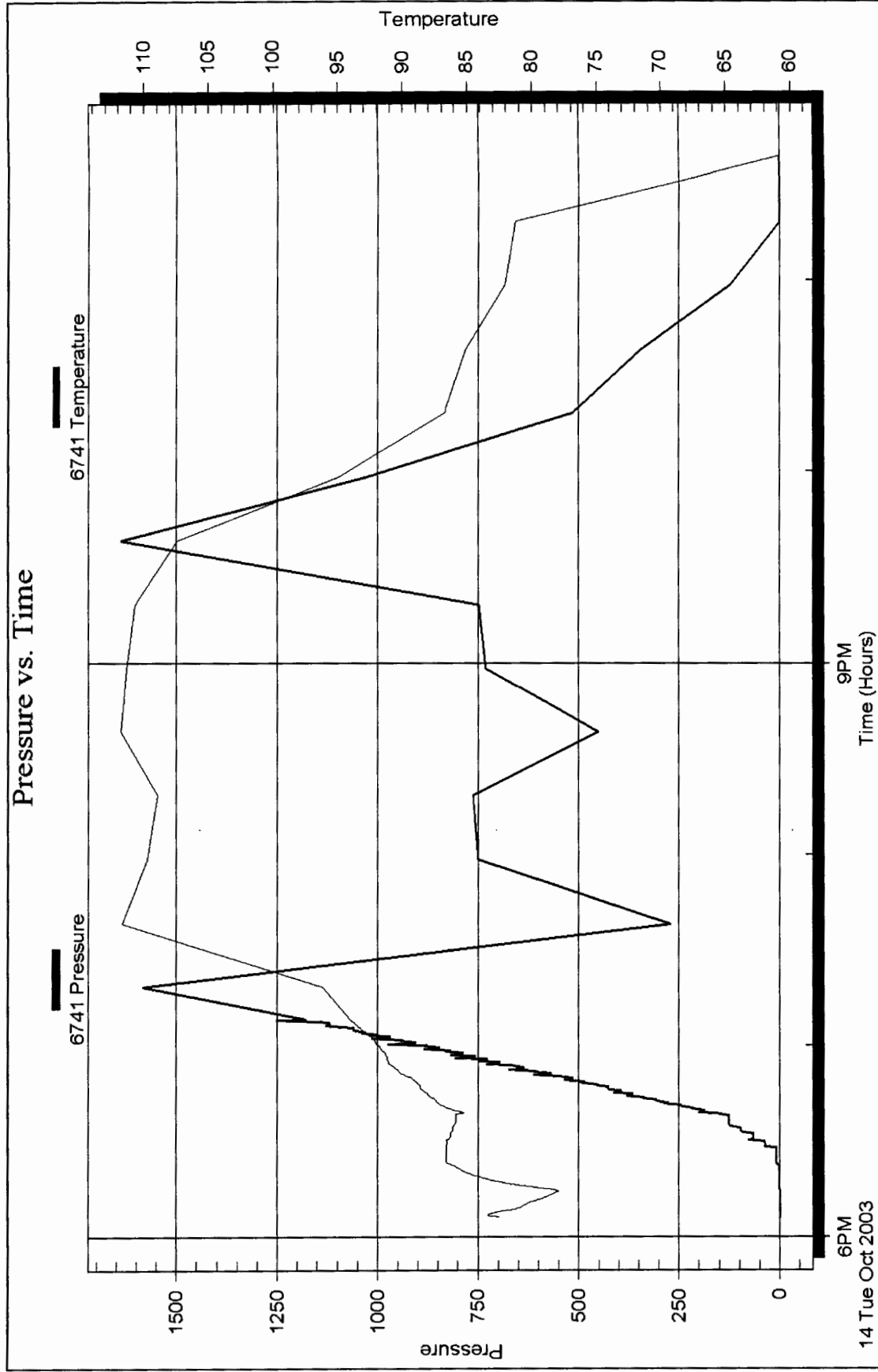
Serial #: 6741

Inside

Northern Lights Oil Co., LC

12--6s--22w

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Northern Lights Oil Co.,LC**

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

12-6s-22w

Marie # 1

Start Date: 2003.10.15 @ 05:00:42

End Date: 2003.10.15 @ 10:50:12

Job Ticket #: 18833 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Northern Lights Oil Co., LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18833

DST#: 6

ATTN: Kurt Smith

Test Start: 2003.10.15 @ 05:00:42

GENERAL INFORMATION:

Formation: **L.Kc.-E&F**

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

Time Tool Opened: 06:40:42

Time Test Ended: 10:50:12

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3503.00 ft (KB) To 3524.00 ft (KB) (TVD)**

Reference Elevations: **2221.00 ft (KB)**

Total Depth: **3524.00 ft (KB) (TVD)**

2216.00 ft (CF)

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

KB to GR/CF: 5.00 ft

Serial #: 6741

Inside

Press@RunDepth: **179.85 psig @ 3506.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2003.10.15**

End Date:

2003.10.15

Last Calib.:

2003.10.15

Start Time: **05:00:43**

End Time:

10:50:12

Time On Btm:

2003.10.15 @ 06:40:12

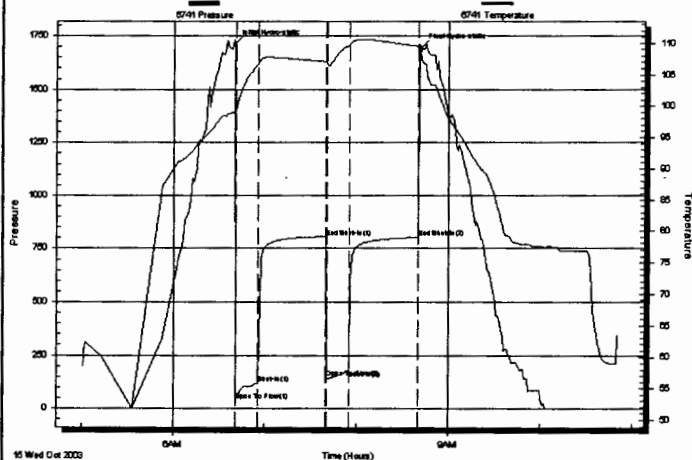
Time Off Btm:

2003.10.15 @ 08:42:12

TEST COMMENT: **IF-Strong B.O.B. in 5 min.**
FF-Strong B.O.B. in 5 min.

IS-Strong blow back B.O.B. 20 min.
IS-Strong blow back B.O.B. 10 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.46	99.37	Initial Hydro-static
1	39.07	99.27	Open To Flow (1)
15	119.39	106.76	Shut-In (1)
60	803.73	107.09	End Shut-In (1)
61	143.72	106.86	Open To Flow (2)
75	179.85	109.72	Shut-In (2)
120	801.33	109.56	End Shut-In (2)
122	1699.01	107.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	GMCO-25%G-15%M-60%O	0.49
400.00	Gassy Oil 10%G-90% Oil	4.27
0.00	1050 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18833

DST#: 6

ATTN: Kurt Smith

Test Start: 2003.10.15 @ 05:00:42

Tool Information

Drill Pipe:	Length: 3242.00 ft	Diameter: 3.80 inches	Volume: 45.48 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 46.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3503.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	40.00 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			3489.00	
Hydraulic tool	5.00			3494.00	
Packer	4.00			3498.00	19.00 Bottom Of Top Packer
Packer	5.00		Fluid	3503.00	
Stubb	2.00			3505.00	
Perforations	1.00			3506.00	
Recorder	0.00	6741	Inside	3506.00	
Perforations	15.00			3521.00	
Recorder	0.00	13308	Outside	3521.00	
Bullnose	3.00			3524.00	21.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Northern Lights Oil Co., LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18833

DST#: 6

ATTN: Kurt Smith

Test Start: 2003.10.15 @ 05:00:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	GMCO-25%G-15%M-60%O	0.492
400.00	Gassy Oil 10%G-90% Oil	4.272
0.00	1050 gas in pipe	0.000

Total Length: 500.00 ft

Total Volume: 4.764 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

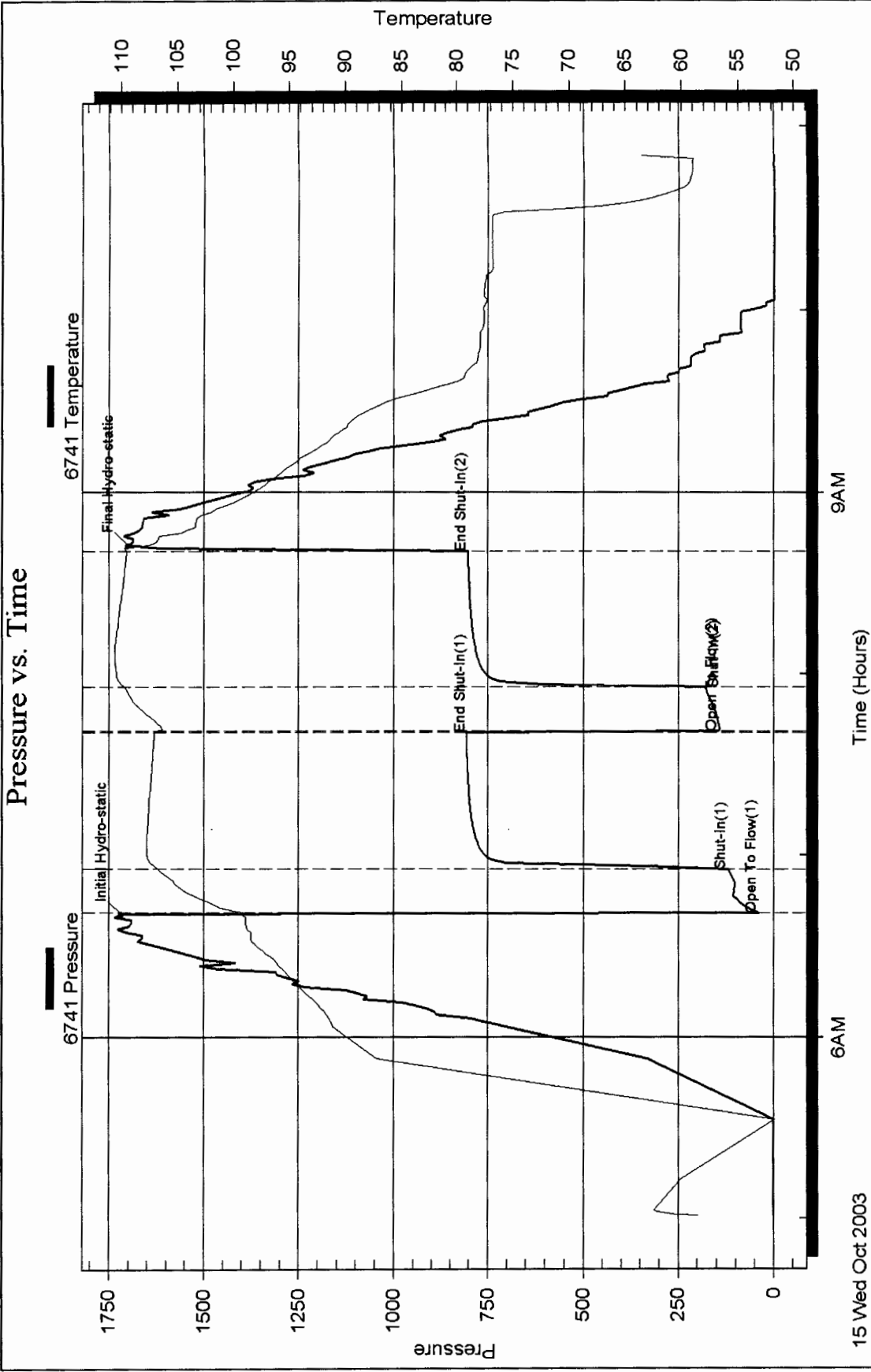
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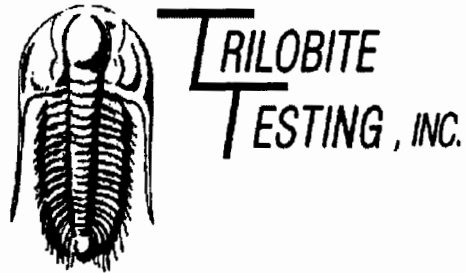
Northern Lights Oil Co., LC

12--6s--22w

DST Test Number: 6

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Northern Lights Oil Co.,LC**

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

12-6s-22w

Marie # 1

Start Date: 2003.10.15 @ 22:12:59

End Date: 2003.10.16 @ 03:20:29

Job Ticket #: 18834 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Northern Lights Oil Co.,LC

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

Marie # 1

12-6s-22w

Job Ticket: 18834

DST#: 7

Test Start: 2003.10.15 @ 22:12:59

GENERAL INFORMATION:

Formation: **L.Kc.-K&L**

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

Time Tool Opened: 23:47:59

Time Test Ended: 03:20:29

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3611.00 ft (KB) To 3645.00 ft (KB) (TVD)**

Total Depth: **3376.00 ft (KB) (TVD)**

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

Reference Elevations: **2221.00 ft (KB)**

2216.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6741 **Inside**

Press@RunDepth: **16.09 psig @ 3614.00 ft (KB)**

Start Date: **2003.10.15**

End Date:

2003.10.16

Start Time: **22:13:00**

End Time:

03:20:29

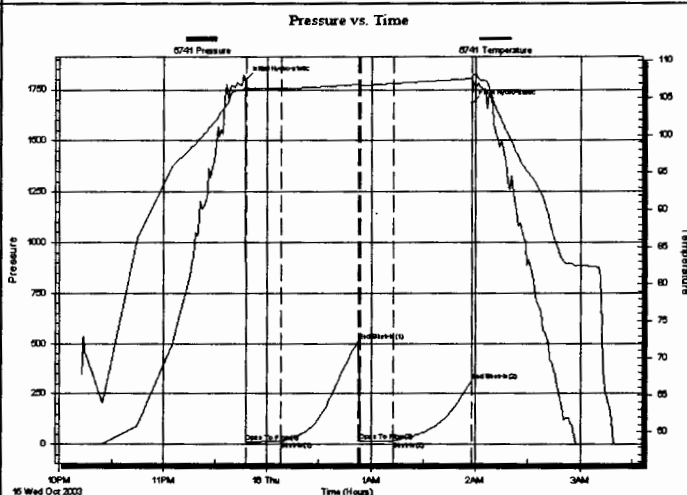
Capacity: **7000.00 psig**

Last Calib.: **2003.10.16**

Time On Btm: **2003.10.15 @ 23:47:29**

Time Off Btm: **2003.10.16 @ 01:57:59**

TEST COMMENT: **IF-Weak Dead in 13 min**
FF-Dead



PRESSURE SUMMARY

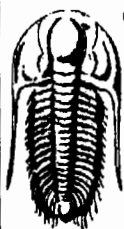
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1798.03	106.49	Initial Hydro-static
1	12.34	106.39	Open To Flow (1)
21	13.92	106.27	Shut-In(1)
65	510.06	106.80	End Shut-In(1)
66	13.59	106.70	Open To Flow (2)
85	16.09	106.92	Shut-In(2)
130	312.74	107.56	End Shut-In(2)
131	1682.15	107.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18834

DST#: 7

ATTN: Kurt Smith

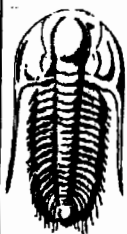
Test Start: 2003.10.15 @ 22:12:59

Tool Information

Drill Pipe:	Length: 3356.00 ft	Diameter: 3.80 inches	Volume: 47.08 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 48.29 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3611.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	53.00 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			3597.00	
Hydraulic tool	5.00			3602.00	
Packer	4.00			3606.00	19.00 Bottom Of Top Packer
Packer	5.00		Fluid	3611.00	
Stubb	1.00			3612.00	
Perforations	2.00			3614.00	
Recorder	0.00	6741	Inside	3614.00	
Perforations	28.00			3642.00	
Recorder	0.00	13308	Outside	3642.00	
Bullnose	3.00			3645.00	34.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18834

DST#: 7

ATTN: Kurt Smith

Test Start: 2003.10.15 @ 22:12:59

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

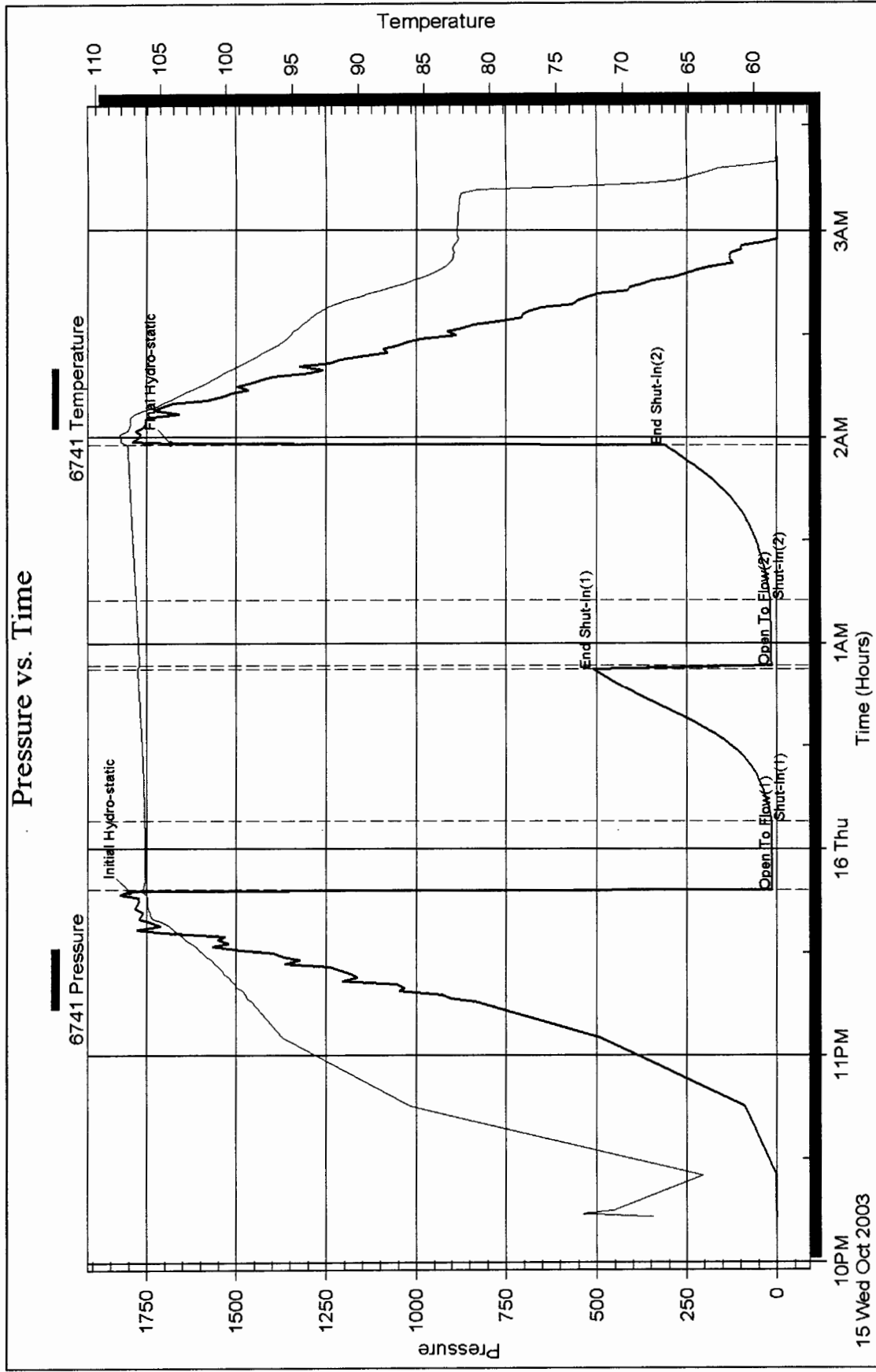
Serial #: 6741

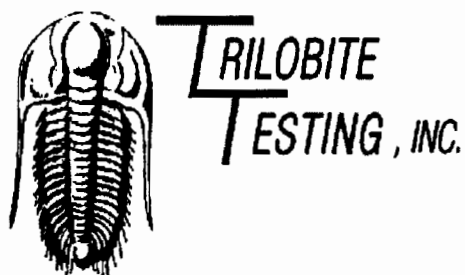
Inside

Northern Lights Oil Co., LC

12--6s--22w

DST Test Number: 7





DRILL STEM TEST REPORT

Prepared For: **Northern Lights Oil Co.,LC**

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

12-6s-22w

Marie # 1

Start Date: 2003.10.16 @ 19:15:01

End Date: 2003.10.17 @ 01:07:31

Job Ticket #: 18835 DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Northern Lights Oil Co., LC

P.O. Box 164
Andover, Ks. 67002

ATTN: Kurt Smith

Marie # 1

12-6s-22w

Job Ticket: 18835

DST #: 8

Test Start: 2003.10.16 @ 19:15:01

GENERAL INFORMATION:

Formation: **Cong.**

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

Time Tool Opened: 20:41:01

Time Test Ended: 01:07:31

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3669.00 ft (KB) To 3717.00 ft (KB) (TVD)**

Total Depth: **3717.00 ft (KB) (TVD)**

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

Reference Elevations: **2221.00 ft (KB)**

2216.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **197.69 psig @ 3672.00 ft (KB)**

Start Date: **2003.10.16**

End Date:

2003.10.17

Capacity: **7000.00 psig**

Last Calib.: **2003.10.17**

Start Time: **19:15:02**

End Time:

01:07:31

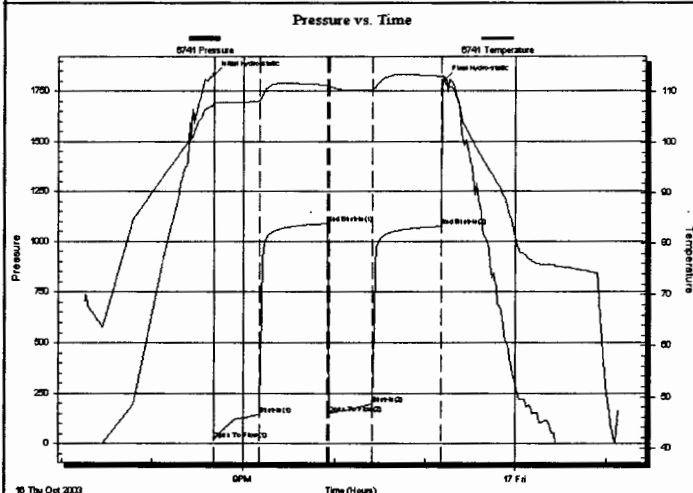
Time On Btm: **2003.10.16 @ 20:40:31**

Time Off Btm: **2003.10.16 @ 23:13:31**

TEST COMMENT: **IF-Good to Strong B.O.B. 15 min.**
FF-Good to Strong B.O.B. 15 min.

ISI-Weak Surface blow back.
FSI-Weak Surface blow back.

Tool sl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1832.19	107.81	Initial Hydro-static
1	20.28	107.59	Open To Flow (1)
30	144.38	108.20	Shut-in (1)
75	1088.76	111.32	End Shut-in (1)
76	150.62	111.09	Open To Flow (2)
105	197.69	110.41	Shut-in (2)
151	1074.87	113.01	End Shut-in (2)
153	1806.86	111.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
485.00	Gassy Oil %5G-95%oil	4.55
0.00	100 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil Co.,LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18835

DST#: 8

ATTN: Kurt Smith

Test Start: 2003.10.16 @ 19:15:01

Tool Information

Drill Pipe:	Length: 3418.00 ft	Diameter: 3.80 inches	Volume: 47.95 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose:	40000.00 lb
		Total Volume:	49.16 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3669.00 ft			Final	37000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	67.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

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

Shut In Tool	5.00			3655.00	
Hydraulic tool	5.00			3660.00	
Packer	4.00			3664.00	19.00 Bottom Of Top Packer
Packer	5.00		Fluid	3669.00	
Stubb	1.00			3670.00	
Perforations	1.00			3671.00	
Change Over Sub	1.00			3672.00	
Recorder	0.00	6741	Inside	3672.00	
Blank Spacing	31.00			3703.00	
Change Over Sub	1.00			3704.00	
Recorder	0.00	11084	Outside	3704.00	
Perforations	10.00			3714.00	
Bullnose	3.00			3717.00	48.00 Bottom Packers & Anchor

Total Tool Length: 67.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Northern Lights Oil Co., LC

Marie # 1

P.O. Box 164
Andover, Ks. 67002

12-6s-22w

Job Ticket: 18835

DST#: 8

ATTN: Kurt Smith

Test Start: 2003.10.16 @ 19:15:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
485.00	Gassy Oil %5G-95%oil	4.553
0.00	100 gas in pipe	0.000

Total Length: 485.00 ft

Total Volume: 4.553 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

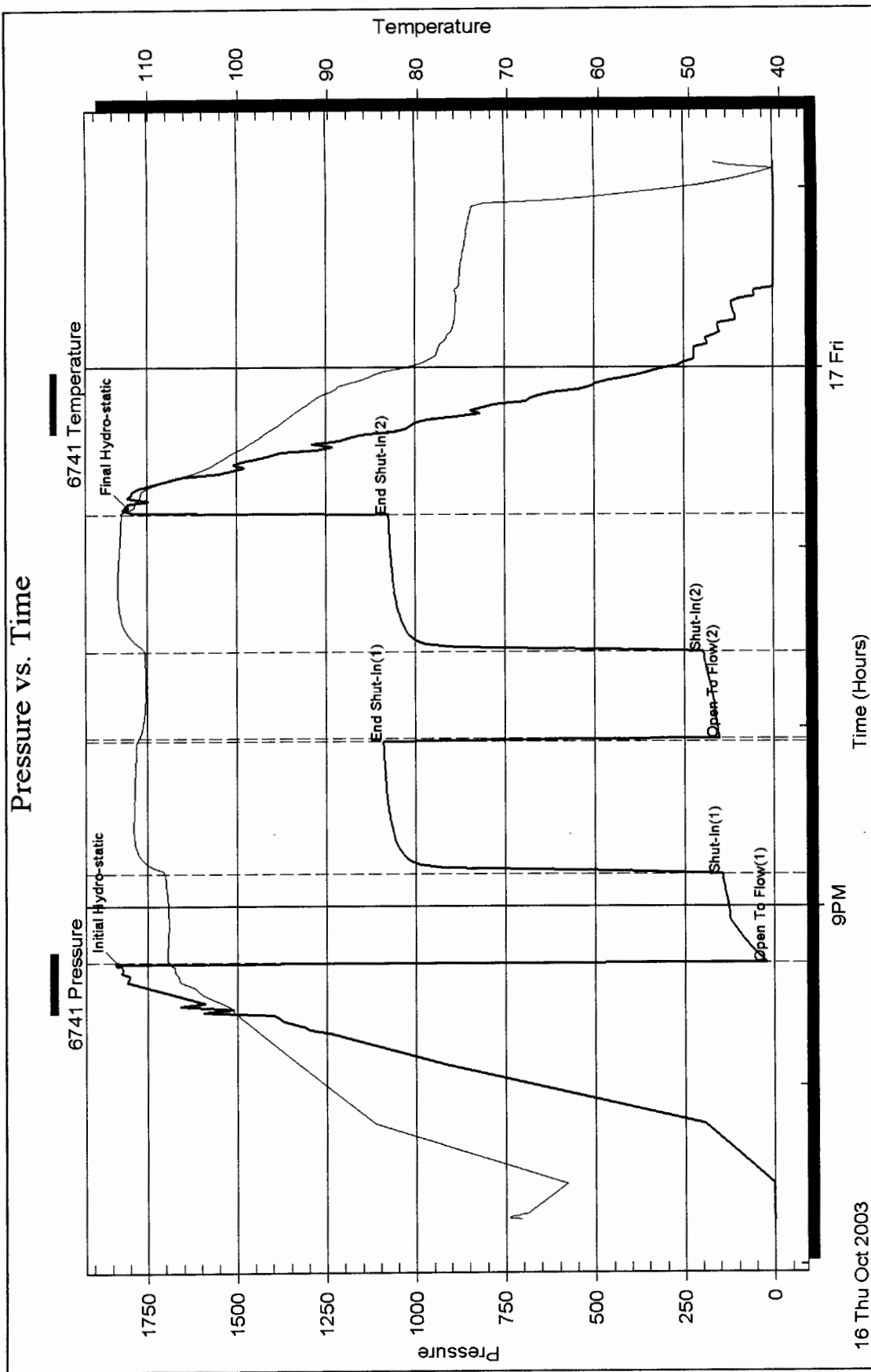
Serial #:

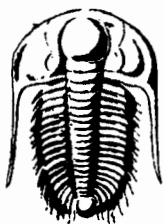
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18828

05/03

Test Ticket

Well Name & No. MARIE #1 Test No. #1 Date 10-12-03
 Company NORTHERN LIGHTS OIL CO., LC Zone Tested OREAD A
 Address P.O. BOX 164 ANDOVER, KS, 67002 Elevation 2221 KB 2216 GL
 Co. Rep / Geo. KURT SMITH Cont. MALLARD Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 12 Twp. 65 Rge. 22W Co. GRAHAM State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3357 To 3376 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 49,000
 Anchor Length 19' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3352 Tool Weight 2,000
 Bottom Packer Depth 3357 Hole Size 7 7/8" ✓ Rubber Size 6 3/4"
 Total Depth 3376 Wt. Pipe Run 0 Drill Collar Run 247
 Mud Wt. 8.9 LCM - Vis. 44 WL 8.2 Drill Pipe Size 4 1/2 XH Ft. Run 3105
 Blow Description IF-STRONG B.O.B. 10-MIN ISI-WEAK SURFACE BLOW BACK
FF-STRONG B.O.B. 18-MIN. FSI-DEAD

Recovery - Total Feet 600' GIP 80 Ft. in DC 247 Ft. in DP 353
 Rec. 600 Feet of GASSY OIL 5 %gas 95 %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. _____ Feet of _____ %gas %oil %water %mud
 BHT 109 °F Gravity 30 °API D @ 80 °F Corrected Gravity 28 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2000 ppm System

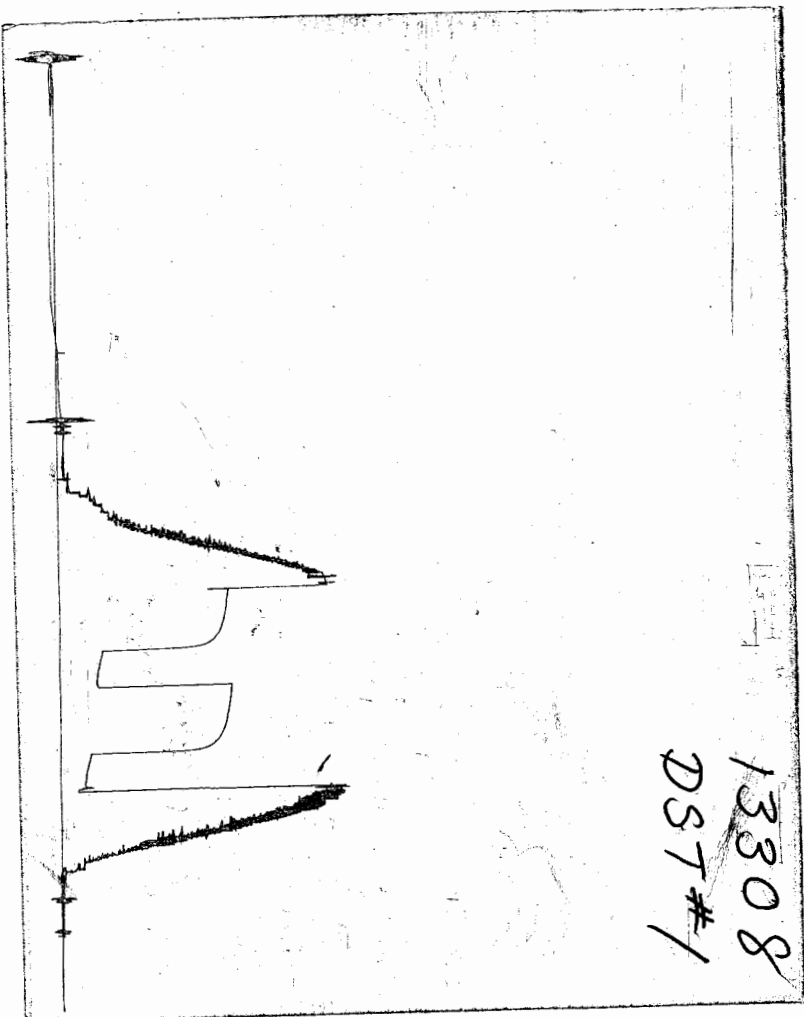
AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1629</u> PSI	Recorder No. <u>6741</u>	Test <u>B. HOLE</u>
(B) First Initial Flow Pressure	<u>28</u> PSI	(depth) <u>3359</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>156</u> PSI	Recorder No. <u>13308</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1042</u> PSI	(depth) <u>3373</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>162</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>219</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1022</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1605</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
		Final Flow <u>30</u>	Shale Packer _____
		Final Shut-In <u>45</u>	Mileage <u>80</u>
		T-On Location <u>16:00</u>	Sub Total: <u>930</u>
		T-Started <u>17:32</u>	Std. By _____
		T-Open <u>19:17</u>	Other _____
		T-Pulled <u>21:48</u>	Total: _____
		T-Out <u>23:58</u>	

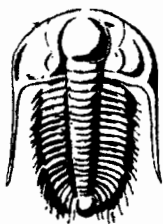
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Approved By [Signature]
 Our Representative John F. Schmidt

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18829

05/03

Test Ticket

Well Name & No. <u>MARIE #1</u>	Test No. <u>#2</u>	Date <u>10-13-03</u>
Company <u>NORTHERN LIGHTS OIL, CO., LC</u>	Zone Tested <u>OREAD-B</u>	
Address _____	Elevation <u>2221</u> KB <u>2216</u> GL	
Co. Rep / Geo. <u>KURT SMITH</u>	Cont. <u>MALLARD</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>12</u> Twp. <u>6S</u> Rge. <u>22W</u> Co. <u>GRAHAM</u> State <u>KS</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3379 To 3400</u>	Initial Str Wt./Lbs. <u>36,000</u>	Unseated Str Wt./Lbs. <u>38,000</u>
Anchor Length <u>21'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>50,000</u>
Top Packer Depth <u>3374</u>	Tool Weight <u>2,000</u>	
Bottom Packer Depth <u>3379</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3400</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>247</u>
Mud Wt. <u>9.0</u> LCM <u>-</u> Vis. <u>46</u> WL <u>8.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3136</u>
Blow Description <u>IF- STRONG B.O.B. 1-min.</u>	<u>ISI- GOOD BLOW BACK 2" IN</u>	
<u>FF- STRONG B.O.B. 1-min.</u>	<u>FSI- GOOD BLOW BACK 3" IN</u>	

Recovery - Total Feet <u>1160'</u>	GIP <u>260'</u>	Ft. in DC <u>247'</u>	Ft. in DP <u>913'</u>
Rec. <u>1160</u>	Feet of <u>GASSY OIL</u>	<u>10</u> %gas <u>90</u> %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. _____	Feet of _____	%gas %oil	%water %mud
BHT _____	*F Gravity <u>32</u>	*API D @ <u>80</u>	*F Corrected Gravity <u>30</u> *API
RW _____ @ _____	*F Chlorides _____	ppm Recovery _____	Chlorides <u>2,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1647</u> PSI	Alpine	Recorder No. <u>6741</u>	Test <u>B. HOLE</u>
(B) First Initial Flow Pressure	<u>188</u> PSI		(depth) <u>3383</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>327</u> PSI		Recorder No. <u>13308</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1107</u> PSI		(depth) <u>3397</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>369</u> PSI		Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>469</u> PSI		(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1105</u> PSI	Initial Opening	<u>10</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1635</u> PSI	Initial Shut-In	<u>45</u>	Ext. Packer _____

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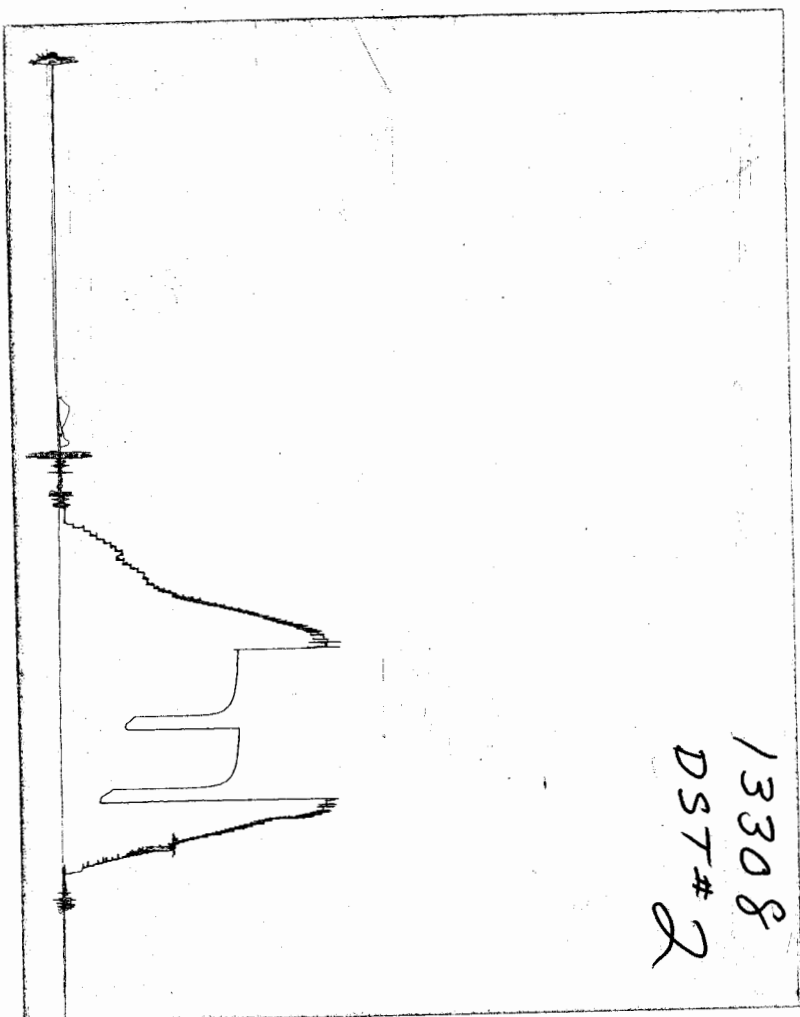
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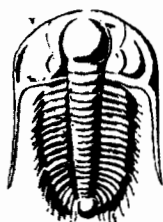
Our Representative John J. Schmidt

Final Flow	<u>10</u>	Shale Packer	_____
Final Shut-In	<u>45</u>	Mileage	<u>80</u>
T-On Location	<u>04:15</u>	Sub Total:	<u>930</u>
T-Started	<u>05:02</u>	Std. By	_____
T-Open	<u>06:20</u>	Other	_____
T-Pulled	<u>08:14</u>	Total:	_____
T-Out	<u>10:47</u>		

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18830

05/03

Test Ticket

Well Name & No. <u>MARIE #1</u>	Test No. <u>#3</u>	Date <u>10-13-03</u>
Company <u>NORTHERN LIGHTS OIL CO, LC</u>	Zone Tested <u>TRONTO 4 L. K. A</u>	
Address _____	Elevation <u>2221</u> KB <u>2216</u> GL	
Co. Rep / Geo. <u>KURT SMITH</u>	Cont. <u>MALLARD</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>12</u> Twp. <u>6S</u> Rge. <u>22W</u> Co. <u>GRAHAM</u>	State <u>KS</u>	
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3405 To 3460</u>	Initial Str Wt./Lbs. <u>36,000</u>	Unseated Str Wt./Lbs. <u>38,000</u>
Anchor Length <u>55'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>50,000</u>
Top Packer Depth <u>3400</u>	Tool Weight <u>3,000</u>	
Bottom Packer Depth <u>3405</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3460</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>247</u>
Mud Wt. <u>9.0</u> LCM <u>-</u> Vis. <u>46</u> WL <u>6.3</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3168</u>
Blow Description <u>IF - STRONG B.O.B. 1-min.</u>	<u>FSI - STRONG BLOW BACK B.O.B. 15-min.</u>	
<u>FF - STRONG B.O.B. 1-min.</u>	<u>FSI - STRONG BLOW BACK B.O.B. 10-min.</u>	

<u>G.T.S. IN 15-MIN ON FSI WILL BURN</u>		<u>T.S.T.G.</u>	
Recovery - Total Feet <u>2295'</u>	GIP <u>G.T.S.</u>	Ft. in DC <u>247</u>	Ft. in DP <u>2048</u>
Rec. <u>2295'</u>	Feet of <u>GASSY OIL</u>	%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. _____	Feet of _____	%gas _____	%oil _____ %water _____ %mud _____
BHT <u>110</u>	*F Gravity <u>37</u>	*API D @ <u>60</u>	*F Corrected Gravity <u>37</u> *API _____
RW <u>-</u> @ <u>-</u>	*F Chlorides <u>-</u> ppm	Recovery <u>-</u>	Chlorides <u>2,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1673</u> PSI	Alpine	Recorder No. <u>6741</u>	Test <u>B. HOLE</u>
(B) First Initial Flow Pressure	<u>491</u> PSI		(depth) <u>3411</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>652</u> PSI		Recorder No. <u>11084</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1121</u> PSI		(depth) <u>3443</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>692</u> PSI		Recorder No. _____	Circ Sub <u>✓</u>
(F) Second Final Flow Pressure	<u>863</u> PSI		(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1118</u> PSI	Initial Opening <u>15</u>		Straddle _____
(Q) Final Hydrostatic Mud	<u>1610</u> PSI	Initial Shut-In <u>45</u>		Ext. Packer _____
		Final Flow <u>15</u>		Shale Packer _____
		Final Shut-In <u>45</u>		Mileage <u>80</u>

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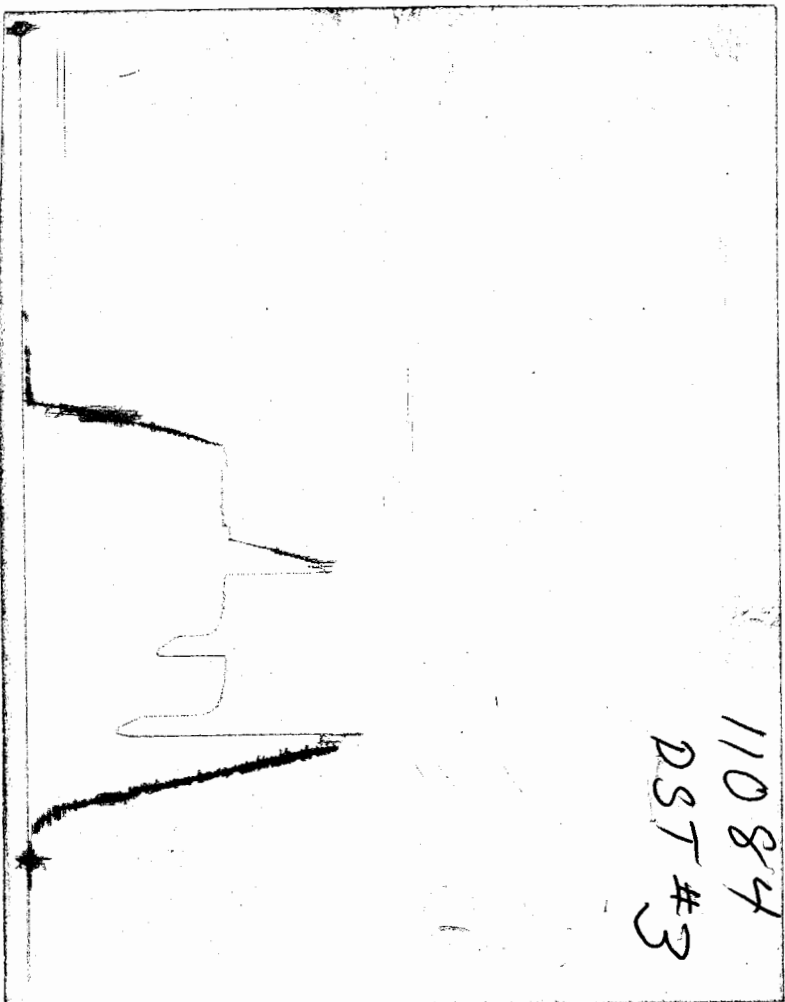
Approved By _____

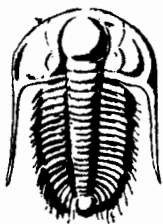
Our Representative John J. Schmidt

T-On Location	<u>17:15</u>	Sub Total: <u>965</u>
T-Started	<u>18:05</u>	Std. By _____
T-Open	<u>19:46</u>	Other _____
T-Pulled	<u>21:46</u>	Total: _____
T-Out	<u>00:42</u>	

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18831

05/03

Test Ticket

Well Name & No. <u>MARIE #1</u>	Test No. <u>#4</u>	Date <u>10-14-03</u>
Company <u>NORTHER LIGHTS OIL CO., LC.</u>	Zone Tested <u>L, KC. - B</u>	
Address _____	Elevation <u>2221</u> KB <u>2216</u> GL	
Co. Rep / Geo. <u>KURT SMITH</u>	Cont. <u>MARLLARD</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>12</u> Twp. <u>6S</u> Rge. <u>22W</u> Co. <u>GRAHAM</u>	State <u>KS</u>	
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3470 To 3494</u>	Initial Str Wt./Lbs. <u>36,000</u>	Unseated Str Wt./Lbs. <u>44,000</u>
Anchor Length <u>24'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>55,000</u>
Top Packer Depth <u>3465</u>	Tool Weight <u>2,100</u>	
Bottom Packer Depth <u>3470</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3494</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>247</u>
Mud Wt. <u>9.0</u> LCM <u>-</u> Vis. <u>46</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH.</u>	Ft. Run <u>3229</u>
Blow Description <u>IF STRONG B.O.B. 4-min.</u>	<u>ISI - STRONG BLOW BACK 14-min.</u>	
<u>FF - STRONG B.O.B. 4-min.</u>	<u>FSI - STRONG BLOW BACK 10-min.</u>	

Recovery - Total Feet <u>500'</u>	GIP <u>680'</u>	Ft. in DC <u>247</u>	Ft. in DP <u>253</u>
Rec. <u>300'</u>	Feet of <u>GASSY OIL</u>	<u>10</u> %gas <u>90</u> %oil	%water _____ %mud _____
Rec. <u>200</u>	Feet of <u>GMC O</u>	<u>30</u> %gas <u>40</u> %oil	%water <u>30</u> %mud
Rec. <u>300</u>	Feet of <u>GASSY OIL</u>	<u>10</u> %gas <u>90</u> %oil	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
BHT <u>110</u>	°F Gravity <u>40</u>	°API D @ <u>70</u>	°F Corrected Gravity <u>39</u> °API
RW <u>-</u>	@ <u>-</u> °F	Chlorides <u>-</u> ppm Recovery <u>-</u>	Chlorides <u>2,500</u> ppm System

(A) Initial Hydrostatic Mud	<u>1713</u> PSI	Recorder No. <u>6741</u>	Test <u>B. HOLE</u>
(B) First Initial Flow Pressure	<u>40</u> PSI	(depth) <u>3472</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>120</u> PSI	Recorder No. <u>13308</u>	Jars _____
(D) Initial Shut-In Pressure	<u>829</u> PSI	(depth) <u>3491</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>146</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>184</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>825</u> PSI	Initial Opening <u>15</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1683</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____

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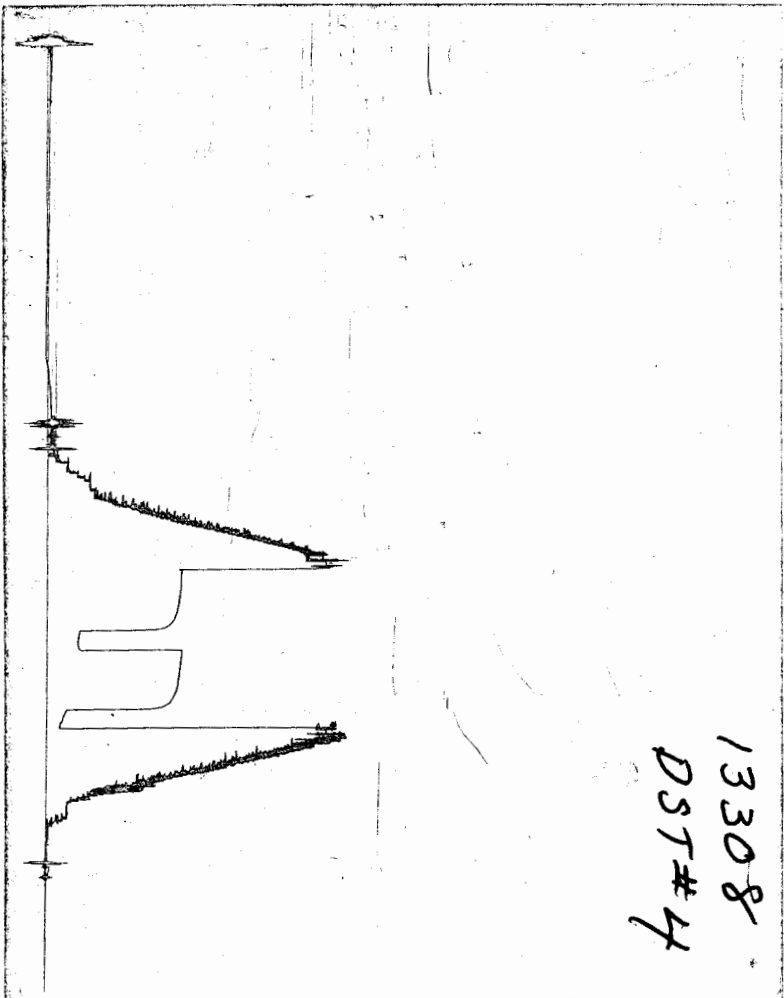
Approved By [Signature]

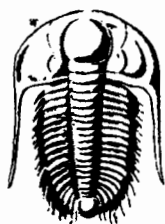
Our Representative John J. Schmidt

Final Flow	<u>15</u>	Shale Packer	_____
Final Shut-In	<u>45</u>	Mileage	<u>80</u>
T-On Location	<u>06:00</u>	Sub Total:	<u>930</u>
T-Started	<u>06:40</u>	Std. By	_____
T-Open	<u>08:31</u>	Other	_____
T-Pulled	<u>10:31</u>	Total:	_____
T-Out	<u>12:31</u>		

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18832

05/03

Test Ticket

Well Name & No. <u>MARIE #1</u>	Test No. <u>#5</u>	Date <u>10-14-03</u>
Company <u>NORTHERN LIGHTS OIL CO., LC</u>	Zone Tested <u>L. KC - C</u>	
Address _____	Elevation <u>2221</u> KB <u>2216</u> GL	
Co. Rep / Geo. <u>KURT SMITH</u>	Cont. <u>MALLARD</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>12</u> Twp. <u>6S</u> Rge. <u>22W</u> Co. <u>GRAHAM</u> State <u>KS</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3490 TO 3505</u>	Initial Str Wt./Lbs. <u>45,000</u>	Unseated Str Wt./Lbs. <u>48,000</u>
Anchor Length <u>15'</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>52,000</u>
Top Packer Depth <u>3485</u>	Tool Weight <u>2,000</u>	
Bottom Packer Depth <u>3490</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3505</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>247</u>
Mud Wt. <u>9.1</u> LCM <u>-</u> Vis. <u>50</u> WL <u>6.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3232</u>
Blow Description <u>IF-STRONG B.O.B. 1-min.</u>	<u>ISI-WEAK SURFACE BLOW BACK</u>	
<u>FF-STRONG B.O.B. 2-min.</u>	<u>FSI-WEAK SURFACE BLOW BACK</u>	

Recovery - Total Feet <u>1,060</u>	GIP <u>-</u>	Ft. in DC <u>247</u>	Ft. in DP <u>813</u>
Rec. <u>500</u>	Feet of <u>S.W</u>	%gas <u>100%</u>	%oil <u>100%</u>
Rec. <u>250'</u>	Feet of <u>GOC MW</u>	%gas <u>15%</u>	%oil <u>15%</u>
Rec. <u>290</u>	Feet of <u>GOC MW</u>	%gas <u>15%</u>	%oil <u>15%</u>
Rec. <u>20</u>	Feet of <u>FREE OIL</u>	%gas <u>40%</u>	%oil <u>25%</u>
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT _____	*F Gravity <u>-</u>	*API D @ <u>-</u>	*F Corrected Gravity <u>-</u>
RW <u>12</u> @ <u>46</u> *F	Chlorides <u>100,000</u> ppm	Recovery <u>-</u>	Chlorides <u>2,500</u> ppm

(A) Initial Hydrostatic Mud <u>1737</u>	PSI	Recorder No. <u>6741</u>	Test <u>B. HOLE</u>
(B) First Initial Flow Pressure <u>217</u>	PSI	(depth) <u>3492</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure <u>277</u>	PSI	Recorder No. <u>13308</u>	Jars _____
(D) Initial Shut-In Pressure <u>248</u>	PSI	(depth) <u>3502</u>	Safety Jt. _____
(E) Second Initial Flow Pressure <u>336</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure <u>478</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure <u>248</u>	PSI	Initial Opening <u>10</u>	Straddle _____
(Q) Final Hydrostatic Mud <u>1689</u>	PSI	Initial Shut-In <u>45</u>	Ext. Packer _____

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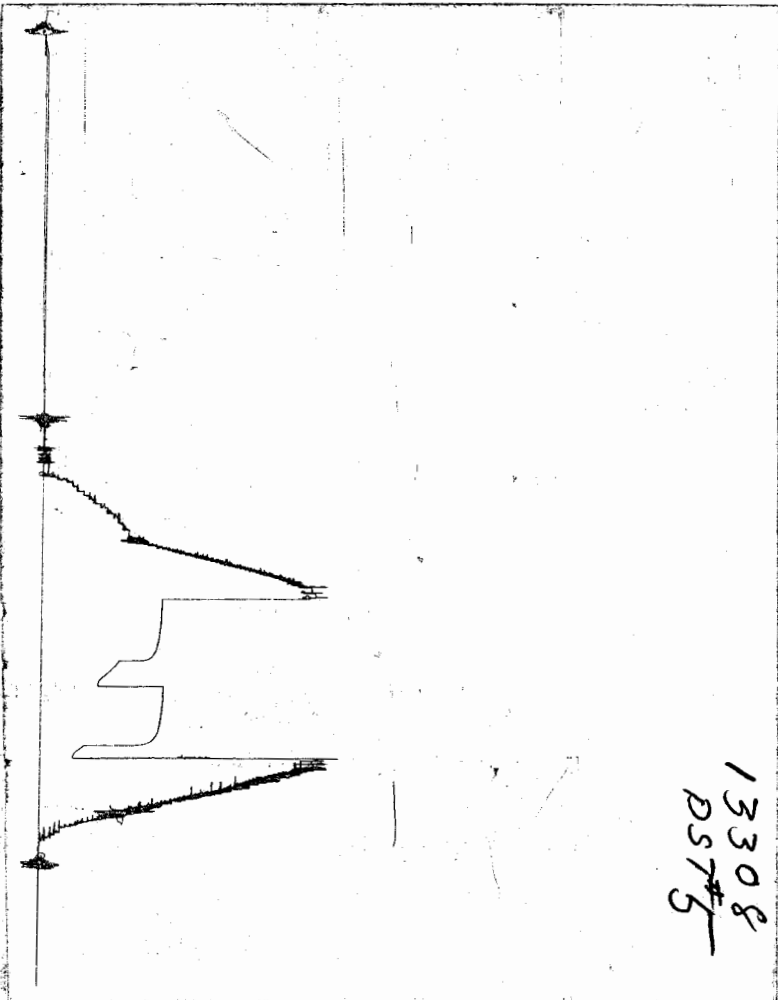
Approved By _____

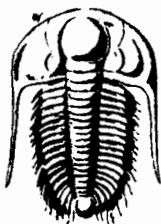
Our Representative John J. Schmitt

Final Flow <u>20</u>	Shale Packer _____
Final Shut-In <u>45</u>	Mileage <u>80</u>
T-On Location <u>17:15</u>	Sub Total: <u>930</u>
T-Started <u>18:05</u>	Std. By _____
T-Open <u>19:28</u>	Other _____
T-Pulled <u>21:28</u>	Total: _____
T-Out <u>23:30</u>	

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18833

05/03

Test Ticket

Well Name & No. <u>MARIE #1</u>	Test No. <u>#6</u>	Date <u>10-15-03</u>
Company <u>NORTHERN LIGHTS OIL CO., LC</u>	Zone Tested <u>L.KC. - E4F</u>	
Address _____	Elevation <u>2221</u> KB <u>2216</u> GL	
Co. Rep / Geo. <u>KURT SMITH</u>	Cont. <u>MALLARD</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>12</u> Twp. <u>6S</u> Rge. <u>22W</u> Co. <u>GRAHAM</u>	State <u>KS</u>	
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3503 TO 3524</u>	Initial Str Wt./Lbs. <u>35000</u>	Unseated Str Wt./Lbs. <u>38000</u>
Anchor Length <u>21'</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>50000</u>
Top Packer Depth <u>3498</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3503</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth <u>3524</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>247</u>
Mud Wt. <u>9.1</u> LCM <u>-</u> Vis. <u>52</u> WL <u>5.8</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3242</u>
Blow Description <u>IF STRONG B.O.B. 5-min. ISI STRONG BLOW BACK B.O.B. 20-min.</u> <u>FF STRONG B.O.B. 5-min. FSI STRONG BLOW BACK B.O.B. 10-min.</u>		

Recovery - Total Feet <u>500</u>	GIP <u>1050</u>	Ft. in DC <u>247</u>	Ft. in DP <u>253</u>
Rec. <u>100</u>	Feet of <u>GMC O</u>	<u>25%</u> gas <u>60%</u> oil	<u>15%</u> water <u>15%</u> mud
Rec. <u>400</u>	Feet of <u>GASSY OIL</u>	<u>10%</u> gas <u>90%</u> oil	<u>0%</u> water <u>0%</u> mud
Rec. _____	Feet of _____	<u>0%</u> gas <u>0%</u> oil	<u>0%</u> water <u>0%</u> mud
Rec. _____	Feet of _____	<u>0%</u> gas <u>0%</u> oil	<u>0%</u> water <u>0%</u> mud
Rec. _____	Feet of _____	<u>0%</u> gas <u>0%</u> oil	<u>0%</u> water <u>0%</u> mud
BHT <u>109</u>	°F Gravity <u>42</u>	°API D @ <u>70</u>	°F Corrected Gravity <u>41</u> °API
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides <u>2500</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1716</u>	PSI	Recorder No. <u>6741</u>	Test <u>B. HOLE</u>	
(B) First Initial Flow Pressure	<u>39</u>	PSI	(depth) <u>3506</u>	Elec. Rec. <u>✓</u>	
(C) First Final Flow Pressure	<u>119</u>	PSI	Recorder No. <u>13308</u>	Jars _____	
(D) Initial Shut-In Pressure	<u>803</u>	PSI	(depth) <u>3521</u>	Safety Jt. _____	
(E) Second Initial Flow Pressure	<u>143</u>	PSI	Recorder No. _____	Circ Sub _____	
(F) Second Final Flow Pressure	<u>179</u>	PSI	(depth) _____	Sampler _____	
(G) Final Shut-In Pressure	<u>801</u>	PSI	Initial Opening <u>15</u>	Straddle _____	
(Q) Final Hydrostatic Mud	<u>1699</u>	PSI	Initial Shut-In <u>45</u>	Ext. Packer _____	

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Approved By _____

Our Representative

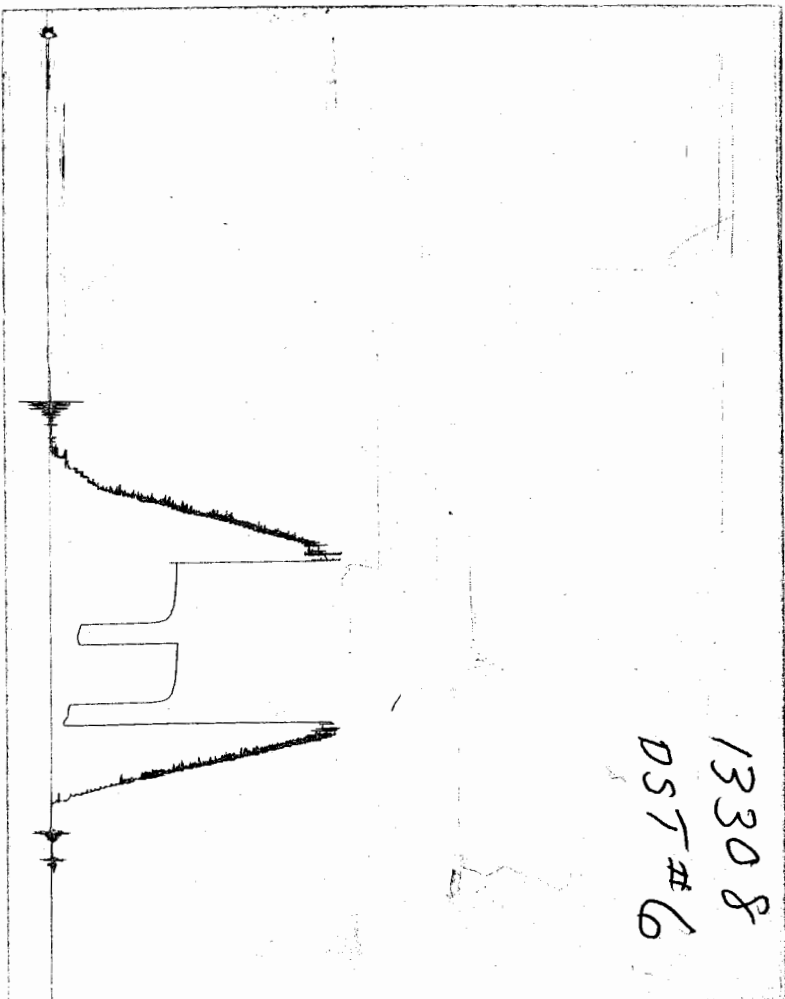
John J. Schmitt

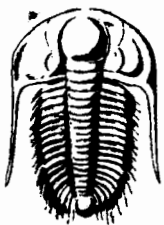
Final Flow	<u>15</u>
Final Shut-In	<u>45</u>
T-On Location	<u>04:30</u>
T-Started	<u>05:00</u>
T-Open	<u>06:40</u>
T-Pulled	<u>08:42</u>
T-Out	<u>10:50</u>

Shale Packer	_____
Mileage	<u>80</u>
Sub Total:	<u>930</u>
Std. By	_____
Other	_____
Total:	_____

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18834

05/03

Test Ticket

Well Name & No. <u>MARIE #1</u>	Test No. <u>#7</u>	Date <u>10-15-03</u>
Company <u>NORTHERN LIGHTS OIL CO., LC</u>	Zone Tested <u>L.K.C. - K+L</u>	
Address _____	Elevation <u>2221</u> KB <u>2216</u> GL	
Co. Rep / Geo. <u>KURT SMITH</u>	Cont. <u>MALLARD</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>12</u> Twp. <u>6S</u> Rge. <u>22W</u> Co. <u>GRAHAM</u> State <u>KS</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3611 TO 3645</u>	Initial Str Wt./Lbs. <u>35,000</u>	Unseated Str Wt./Lbs. <u>35,000</u>
Anchor Length <u>34'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>40,000</u>
Top Packer Depth <u>3606</u>	Tool Weight <u>2,500</u>	
Bottom Packer Depth <u>3611</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3645</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>247</u>
Mud Wt. <u>91</u> LCM <u>-</u> Vis. <u>50</u> WL <u>6.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3356</u>
Blow Description <u>IF WEAK DEAD IN 13 MIN.</u> <u>FF-DEAD</u>		

Recovery - Total Feet <u>5'</u>	GIP <u>0</u>	Ft. in DC <u>5</u>	Ft. in DP <u>0</u>
Rec. <u>5'</u>	Feet of <u>DRILLING MUD</u>	%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. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
BHT <u>107</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____ °API _____
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides _____ ppm System _____

(A) Initial Hydrostatic Mud	AK-1 <u>1798</u> PSI	Recorder No. <u>6741</u>	Test <u>B. HOLE</u>
(B) First Initial Flow Pressure	<u>12</u> PSI	(depth) <u>3614</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>13</u> PSI	Recorder No. <u>13308</u>	Jars _____
(D) Initial Shut-In Pressure	<u>510</u> PSI	(depth) <u>3642</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>13</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>16</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>312</u> PSI	Initial Opening <u>20</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1682</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____

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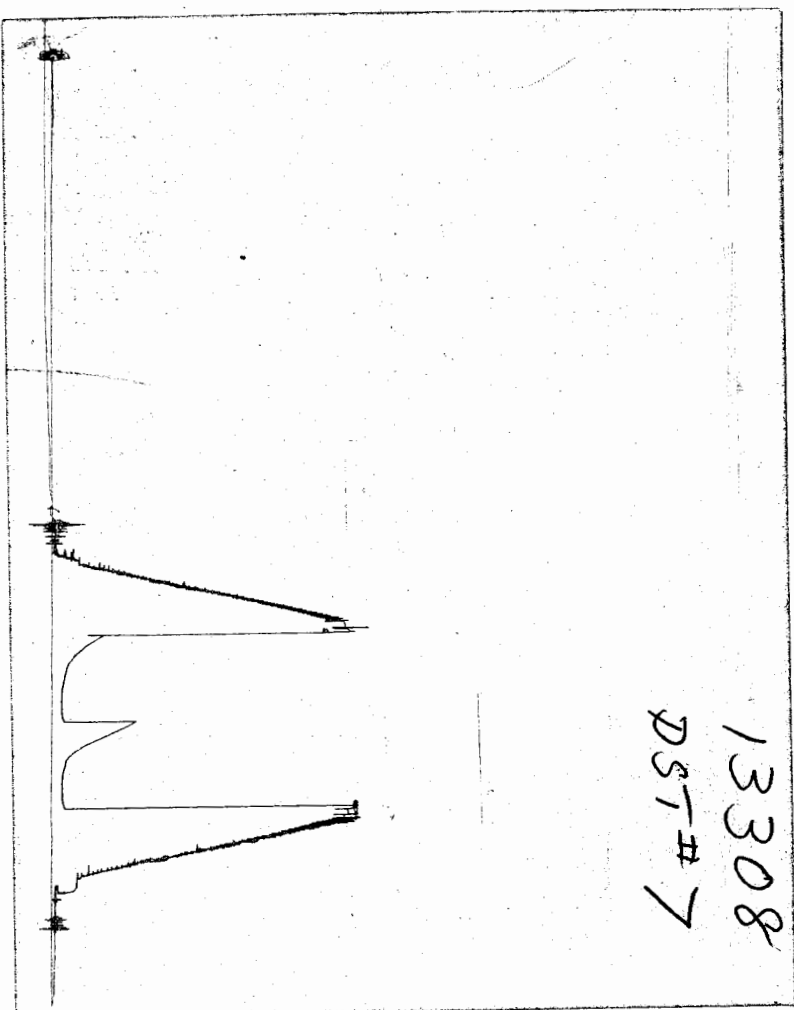
Approved By [Signature]

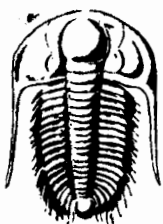
Our Representative [Signature]

Final Flow	<u>20</u>	Shale Packer	_____
Final Shut-In	<u>45</u>	Mileage	<u>80</u>
T-On Location	<u>21:30</u>	Sub Total:	<u>930</u>
T-Started	<u>22:12</u>	Std. By	_____
T-Open	<u>23:47</u>	Other	_____
T-Pulled	<u>01:57</u>	Total:	_____
T-Out	<u>03:20</u>		

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18835

05/03

Test Ticket

Well Name & No. <u>MARIE #1</u>	Test No. <u># 8</u>	Date <u>10-16-03</u>
Company <u>NORTHERN LIGHTS OIL CO., INC.</u>	Zone Tested <u>CONG.</u>	
Address _____	Elevation <u>2221</u> KB <u>2216</u> GL	
Co. Rep / Geo. <u>KURT SMITH</u>	Cont. <u>MALLARD</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>12</u> Twp. <u>6S</u> Rge. <u>22W</u> Co. <u>GRAHAM</u>	State <u>KS</u>	
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3669 To 3717 Initial Str Wt./Lbs. 36,000 Unseated Str Wt./Lbs. 37
 Anchor Length 48' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. _____
 Top Packer Depth 3664 Tool Weight 3,000
 Bottom Packer Depth 3669 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3717 Wt. Pipe Run 0 Drill Collar Run 247
 Mud Wt. 9.1 LCM - Vis. 49 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3418
 Blow Description IF-GOOD TO STRONG B.O.B. 15-MIN. ISF-WEAK SURFACE BLOW BACK
FF-GOOD TO STRONG B.O.B. 15 MIN FSI-WEAK SURFACE BLOW BACK

TOOL SLID 5' TO BOTTOM

Recovery - Total Feet 485 GIP 100 Ft. in DC 247 Ft. in DP 238
 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. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 113 °F Gravity 24 °API D @ 70 °F Corrected Gravity 23 °API
 RW - @ - °F Chlorides - ppm Recovery - Chlorides 2,000 ppm System

AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1832</u> PSI	Recorder No. <u>6741</u>	Test <u>B, HOLE</u>
(B) First Initial Flow Pressure	<u>20</u> PSI	(depth) <u>3672</u>	Elec. Rec. <u>L</u>
(C) First Final Flow Pressure	<u>144</u> PSI	Recorder No. <u>11084</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1088</u> PSI	(depth) <u>3704</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>150</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>197</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1074</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1806</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
		Final Flow <u>30</u>	Shale Packer _____
		Final Shut-In <u>45</u>	Mileage <u>80</u>
		T-On Location <u>18:00</u>	Sub Total: <u>930</u>
		T-Started <u>19:15</u>	Std. By _____
		T-Open <u>20:41</u>	Other _____
		T-Pulled <u>23:13</u>	Total: _____
		T-Out <u>01:07</u>	

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Approved By [Signature]
 Our Representative [Signature]

CHART PAGE

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