

DRILL STEM TEST REPORT

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

Po Box 372
Hays, KS. 67601

ATTN: Ron Nelson

2-13-17-Ellis

Leikam #c-1

Start Date: 2004.11.07 @ 12:41:26

End Date: 2004.11.07 @ 18:25:56

Job Ticket #: 20214 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing-Nelson Oil Co

Leikam #c-1

2-13-17-Ellis

DST # 1

Lansing-KC-"E-F"

2004.11.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co

Leikam #c-1

Po Box 372
Hays,KS. 67601

2-13-17-Ellis

ATTN: Ron Nelson

Job Ticket: 20214

DST#: 1

Test Start: 2004.11.07 @ 12:41:26

GENERAL INFORMATION:

Formation: **Lansing-KC-"E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:06:26

Time Test Ended: 18:25:56

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 24

Interval: **3375.00 ft (KB) To 3405.00 ft (KB) (TVD)**

Total Depth: 3405.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2060.00 ft (KB)

2055.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 28.20 psig @ 3377.00 ft (KB)

Start Date: 2004.11.07

End Date:

2004.11.07

Start Time: 12:41:31

End Time:

18:25:55

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.11.07 @ 14:05:56

Time Off Btm: 2004.11.07 @ 17:06:26

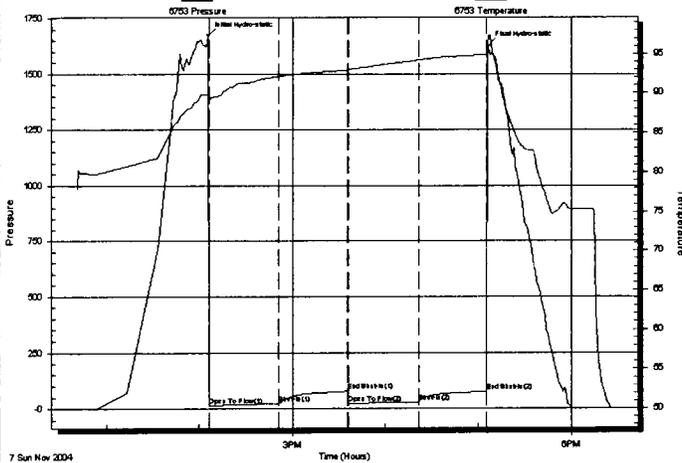
TEST COMMENT: IFP-Good Blow , BOB in 28 Min.

ISI-Dead

FFP- Good Blow , BOB in 32 Min.

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.86	89.83	Initial Hydro-static
1	11.75	88.80	Open To Flow (1)
45	21.29	92.11	Shut-in(1)
90	77.22	92.94	End Shut-in(1)
90	20.07	92.94	Open To Flow (2)
136	28.20	94.21	Shut-in(2)
180	74.61	94.87	End Shut-in(2)
181	1626.47	97.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCMW-15%O-25%W-60%M	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co

Leikam #c-1

Po Box 372
Hays,KS. 67601

2-13-17-Ellis

Job Ticket: 20214

DST#: 1

ATTN: Ron Nelson

Test Start: 2004.11.07 @ 12:41:26

Tool Information

Drill Pipe:	Length: 3359.00 ft	Diameter: 3.80 inches	Volume: 47.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 47.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3375.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3355.00	
Shut In Tool	5.00			3360.00	
Hydraulic tool	5.00			3365.00	
Packer	5.00			3370.00	21.00 Bottom Of Top Packer
Packer	5.00			3375.00	
Stubb	1.00			3376.00	
Perforations	1.00			3377.00	
Recorder	0.00	6753	Inside	3377.00	
Perforations	25.00			3402.00	
Recorder	0.00	13252	Outside	3402.00	
Bullnose	3.00			3405.00	30.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co

Leikam #c-1

Po Box 372
Hays, KS. 67601

2-13-17-Ellis

Job Ticket: 20214

DST#: 1

ATTN: Ron Nelson

Test Start: 2004.11.07 @ 12:41:26

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:

14500 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OCMW-15%O-25%W-60%M	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6753

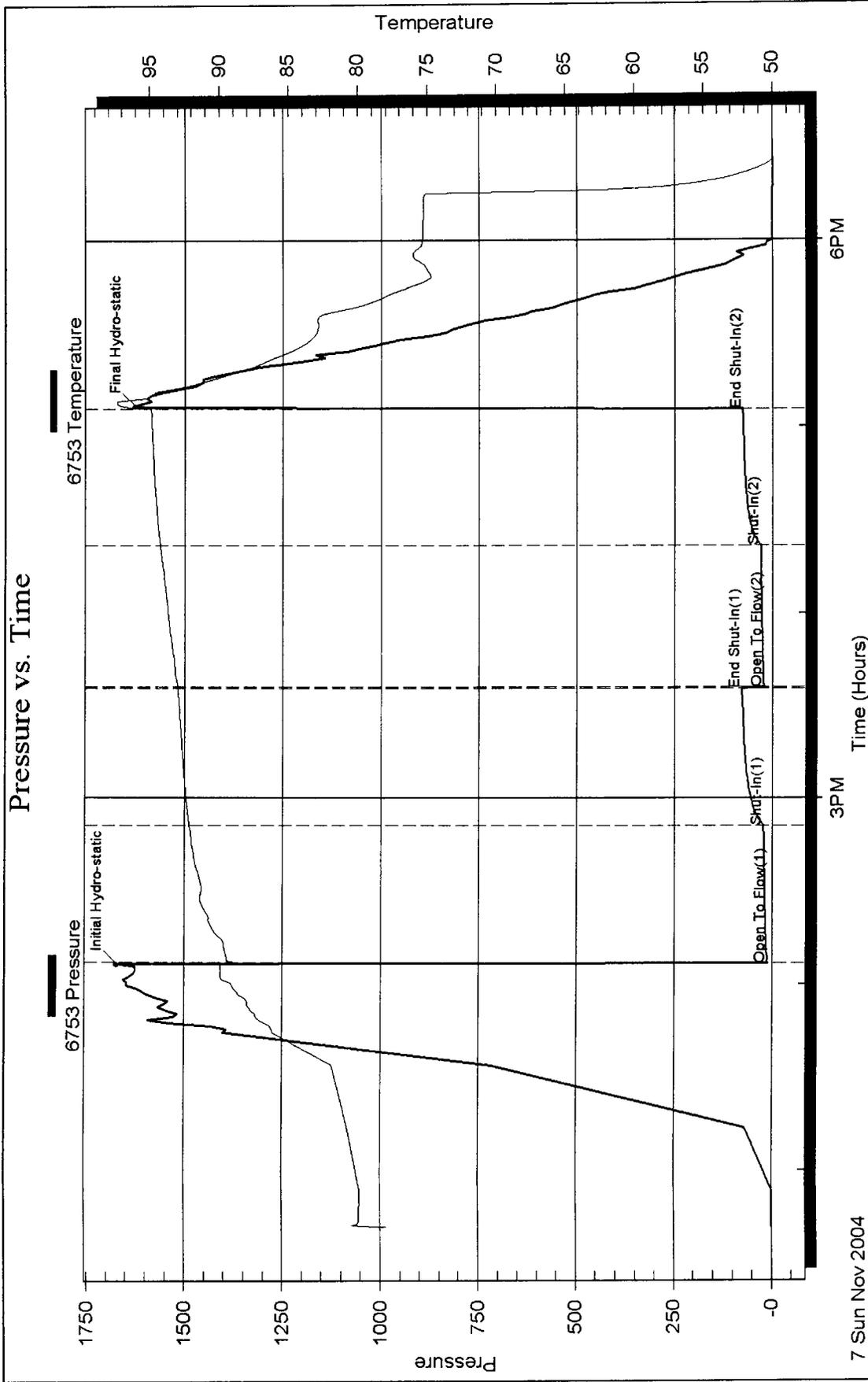
Inside

Downing-Nelson Oil Co

2-13-17-Ellis

DST Test Number: 1

Pressure vs. Time

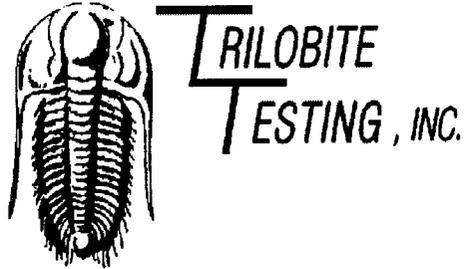


7 Sun Nov 2004

Trilobite Testing, Inc

Ref. No: 20214

Printed: 2004.11.10 @ 15:20:18 Page 5



DRILL STEM TEST REPORT

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

Po Box 372
Hays,KS. 67601

ATTN: Ron Nelson

2-13-17-Ellis

Leikam #c-1

Start Date: 2004.11.08 @ 17:15:44

End Date: 2004.11.08 @ 21:52:14

Job Ticket #: 20215 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing-Nelson Oil Co

Leikam #c-1

2-13-17-Ellis

DST # 2

Arbuckle

2004.11.08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co

Leikam #c-1

Po Box 372
Hays,KS. 67601

2-13-17-Ellis

Job Ticket: 20215

DST#: 2

ATTN: Ron Nelson

Test Start: 2004.11.08 @ 17:15:44

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:28:44

Time Test Ended: 21:52:14

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 24

Interval: **3550.00 ft (KB) To 3598.00 ft (KB) (TVD)**

Total Depth: 3598.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2060.00 ft (KB)

2055.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 15.18 psig @ 3552.00 ft (KB)

Start Date: 2004.11.08

End Date:

2004.11.08

Start Time: 17:15:49

End Time:

21:52:13

Capacity: 7000.00 psig

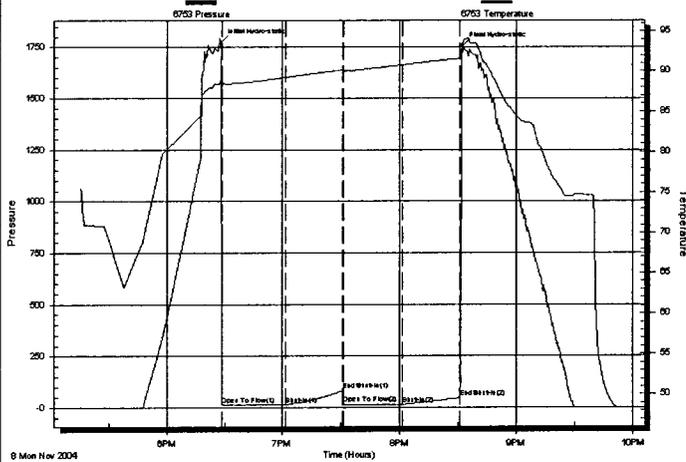
Last Calib.: 1899.12.30

Time On Btm: 2004.11.08 @ 18:28:14

Time Off Btm: 2004.11.08 @ 20:32:14

TEST COMMENT: IFP-Weak Blow ,Built to 1/2",Died in 15 Min.
ISI-FFP-FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1775.48	88.84	Initial Hydro-static
1	13.30	88.03	Open To Flow (1)
34	13.64	89.23	Shut-in(1)
63	83.14	90.15	End Shut-in(1)
63	18.93	90.12	Open To Flow (2)
93	15.18	90.78	Shut-in(2)
123	47.14	91.58	End Shut-in(2)
124	1756.65	93.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 5%O-95%M	0.07
1.00	Free Oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co

Leikam #c-1

Po Box 372
Hays,KS. 67601

2-13-17-Ellis

Job Ticket: 20215

DST#: 2

ATTN: Ron Nelson

Test Start: 2004.11.08 @ 17:15:44

Tool Information

Drill Pipe:	Length: 3546.00 ft	Diameter: 3.80 inches	Volume: 49.74 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 49.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3550.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3530.00	
Shut In Tool	5.00			3535.00	
Hydraulic tool	5.00			3540.00	
Packer	5.00			3545.00	21.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Perforations	1.00			3552.00	
Recorder	0.00	6753	Inside	3552.00	
Blank Spacing	31.00			3583.00	
Perforations	12.00			3595.00	
Recorder	0.00	13252	Outside	3595.00	
Bullnose	3.00			3598.00	48.00 Bottom Packers & Anchor

Total Tool Length: 69.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co

Leikam #c-1

Po Box 372
Hays,KS. 67601

2-13-17-Ellis

Job Ticket: 20215

DST#: 2

ATTN: Ron Nelson

Test Start: 2004.11.08 @ 17:15:44

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 5%O-95%M	0.070
1.00	Free Oil	0.014

Total Length: 6.00 ft Total Volume: 0.084 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

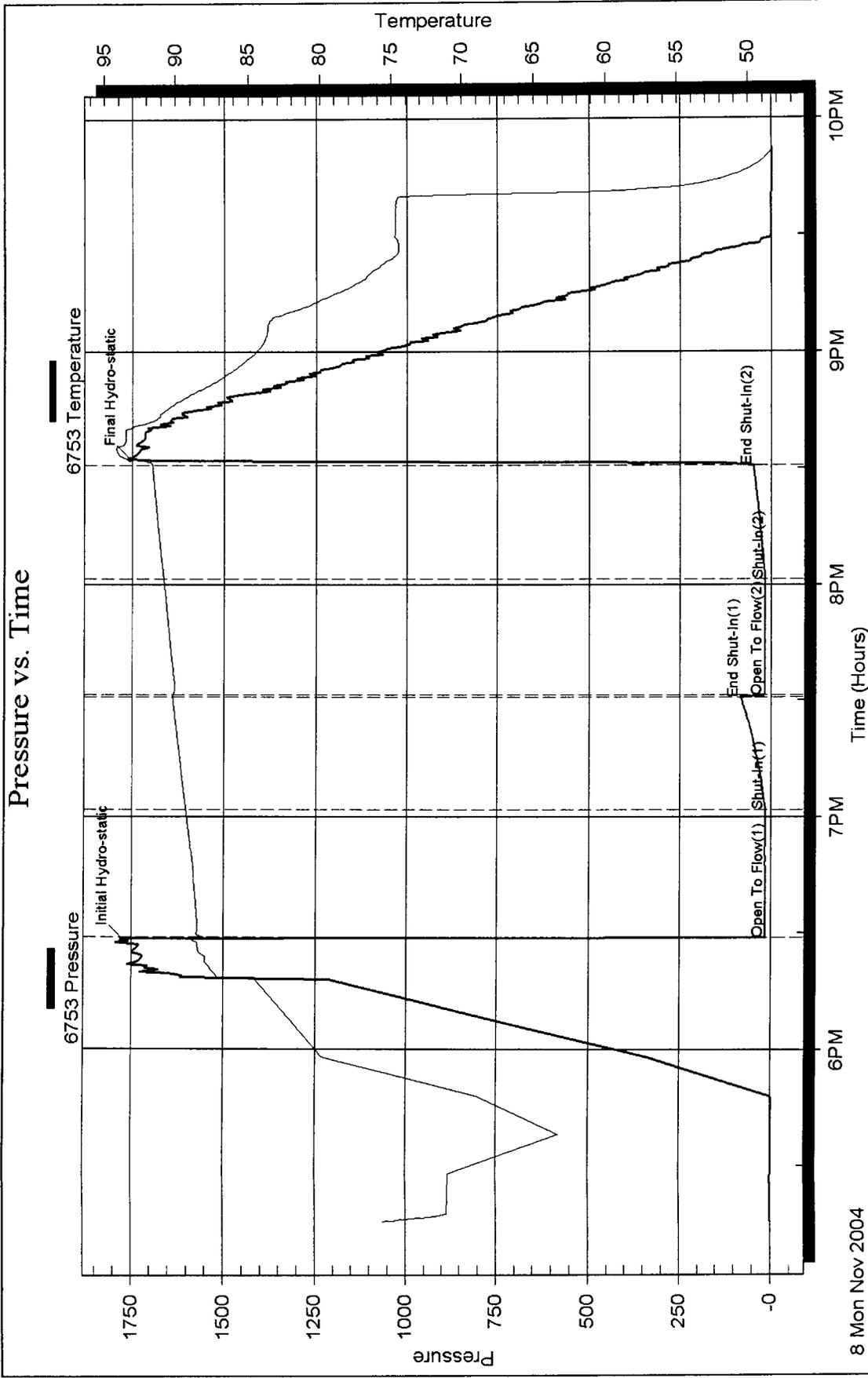
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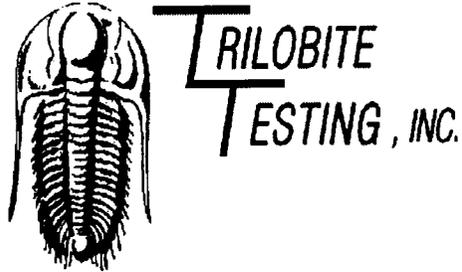
Inside

Downing-Nelson Oil Co

2-13-17-Ellis

DST Test Number: 2





DRILL STEM TEST REPORT

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

Po Box 372
Hays,KS. 67601

ATTN: Ron Nelson

2-13-17-Ellis

Leikam #c-1

Start Date: 2004.11.09 @ 03:47:23

End Date: 2004.11.09 @ 10:07:53

Job Ticket #: 20216 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing-Nelson Oil Co

Leikam #c-1

2-13-17-Ellis

DST # 3

Arbuckle

2004.11.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing-Nelson Oil Co

Leikam #c-1

Po Box 372
Hays, KS. 67601

2-13-17-Ellis

Job Ticket: 20216

DST#: 3

ATTN: Ron Nelson

Test Start: 2004.11.09 @ 03:47:23

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:20:23

Time Test Ended: 10:07:53

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 24

Interval: **3600.00 ft (KB) To 3617.00 ft (KB) (TVD)**

Reference Elevations: 2060.00 ft (KB)

Total Depth: 3617.00 ft (KB) (TVD)

2055.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 60.65 psig @ 3602.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.11.09 End Date: 2004.11.09

Last Calib.: 1899.12.30

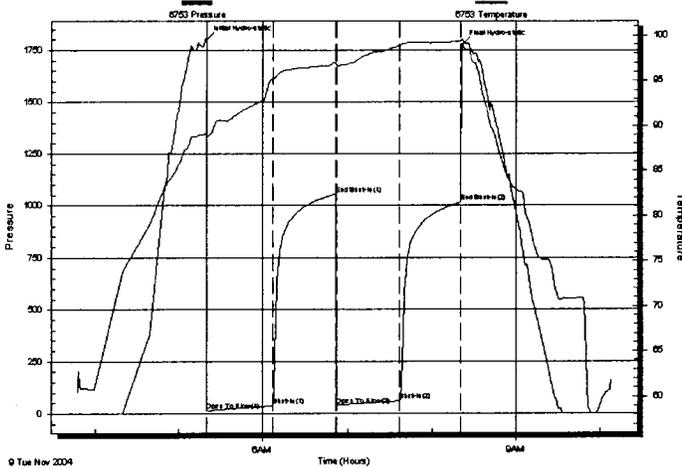
Start Time: 03:47:28 End Time: 10:07:52

Time On Btm: 2004.11.09 @ 05:19:53

Time Off Btm: 2004.11.09 @ 08:21:23

TEST COMMENT: IFP-Fair Blow , Built to 5-1/2"
IS-Dead
FFP-Weak Blow , Built to 1/2"
FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.81	89.11	Initial Hydro-static
1	13.90	88.80	Open To Flow (1)
47	39.16	95.15	Shut-In(1)
92	1054.27	96.93	End Shut-In(1)
92	40.23	96.59	Open To Flow (2)
137	60.65	98.84	Shut-In(2)
181	1015.63	99.31	End Shut-In(2)
182	1777.14	99.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Muddy Water	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co

Leikam #c-1

Po Box 372
Hays,KS. 67601

2-13-17-Ellis

Job Ticket: 20216

DST#: 3

ATTN: Ron Nelson

Test Start: 2004.11.09 @ 03:47:23

Tool Information

Drill Pipe:	Length: 3602.00 ft	Diameter: 3.80 inches	Volume: 50.53 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 50.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3600.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3580.00	
Shut In Tool	5.00			3585.00	
Hydraulic tool	5.00			3590.00	
Packer	5.00			3595.00	21.00 Bottom Of Top Packer
Packer	5.00			3600.00	
Stubb	1.00			3601.00	
Perforations	1.00			3602.00	
Recorder	0.00	6753	Inside	3602.00	
Perforations	12.00			3614.00	
Recorder	0.00	13252	Outside	3614.00	
Bullnose	3.00			3617.00	17.00 Bottom Packers & Anchor

Total Tool Length: 38.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co

Leikam #c-1

Po Box 372
Hays, KS. 67601

2-13-17-Ellis

Job Ticket: 20216

DST#: 3

ATTN: Ron Nelson

Test Start: 2004.11.09 @ 03:47:23

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:	24000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Muddy Water	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6753

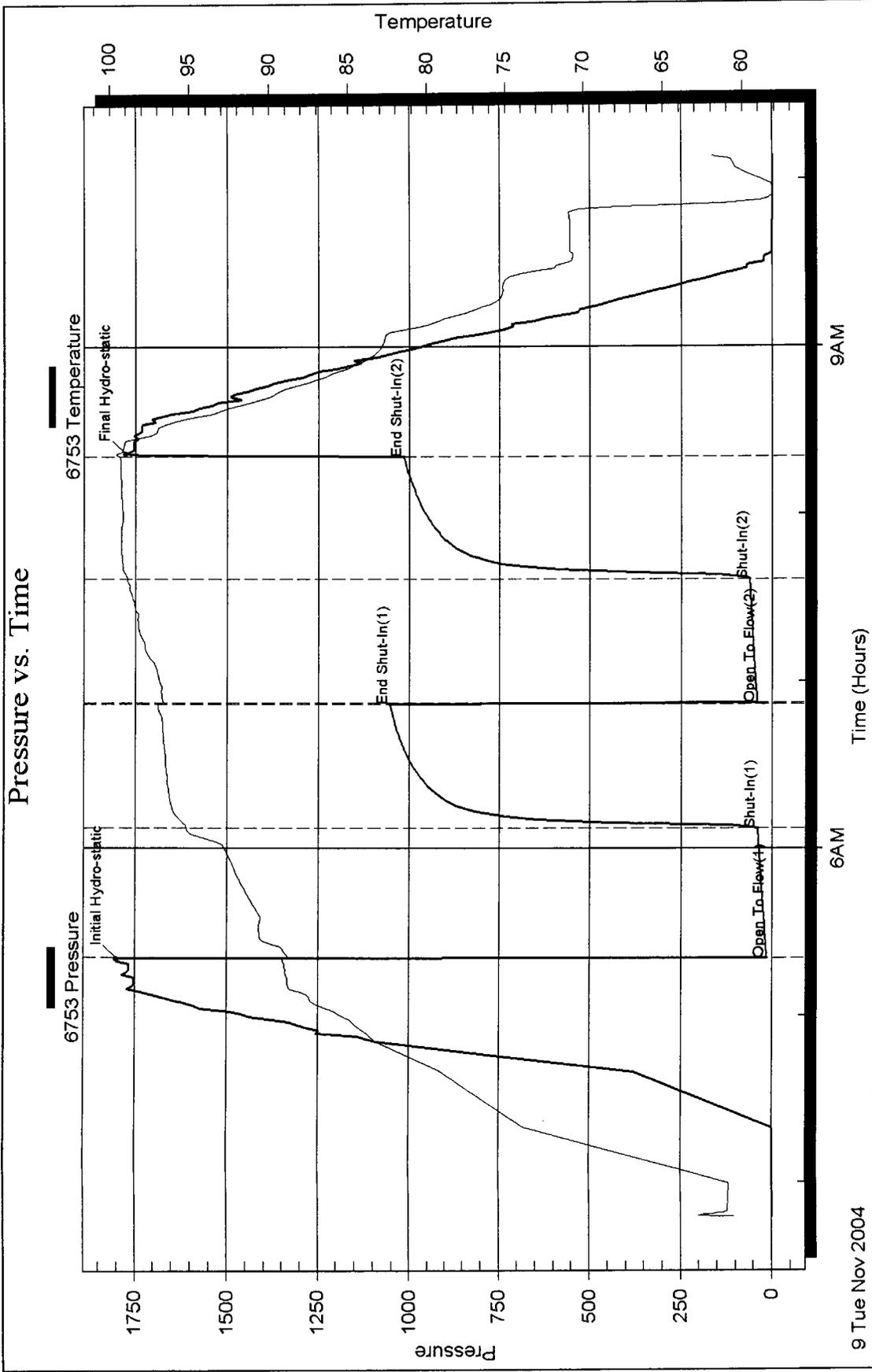
Inside

Downing-Nelson Oil Co

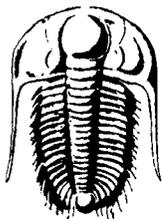
2-13-17-Ellis

DST Test Number: 3

Pressure vs. Time



9 Tue Nov 2004



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
6936

No 20214

05/03

Test Ticket

Well Name & No. Leikam # C-1 Test No. 1 Date 11-7-04
 Company Dowin-Nelson Oil Co. Inc Zone Tested Lansing KC "E-F"
 Address Po Box 372, Hays, Ks. 67601 Elevation 2060 KB 2055 est. GL
 Co. Rep / Geo. Gator Cont. A3A Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 13 Rge. 17 Co. Ellis State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3375-3405 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 44,000
 Anchor Length 30' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 34,000
 Top Packer Depth 3370 Tool Weight 2000
 Bottom Packer Depth 3375 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3405 ~~Wt. Pipe Run~~ 4 1/2 FH EXH Drill Collar Run 0
 Mud Wt. 9.3 LCM 1/2 Vis. 44 WL 8.8 Drill Pipe Size ↑ Ft. Run 3359
 Blow Description IFP - Good Blow, BOB in 28 min.

ISI - Dead
FFP - Good Blow, BOB in 32 min.
FSI - Dead

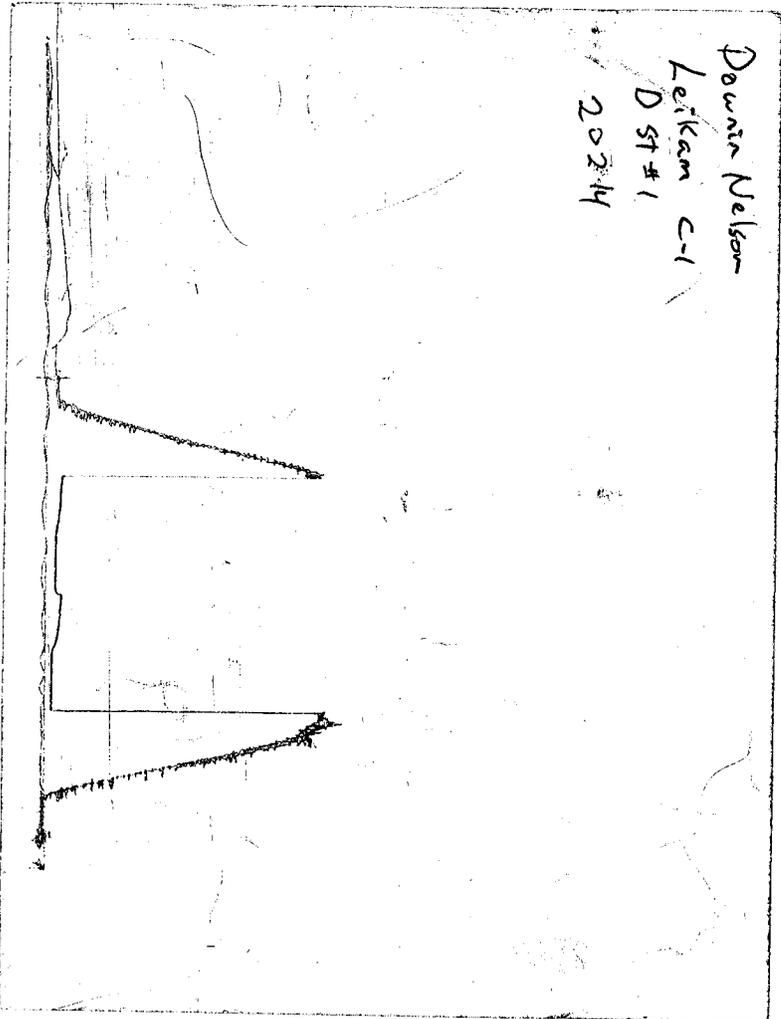
Recovery - Total Feet 40 GIP 80 Ft. in DC _____ Ft. in DP _____
 Rec. 40 Feet of Frothy OC MW %gas 15 %oil 25 %water 60 %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 95 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 465 @ 55 °F Chlorides 14,500 ppm Recovery _____ Chlorides 6,500 ppm System

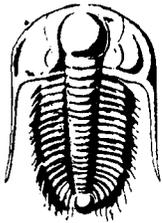
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1672</u> PSI	<u>6753</u>	✓ <u>900</u>
(B) First Initial Flow Pressure		<u>12</u> PSI	(depth) <u>3377</u>	Elec. Rec. ✓
(C) First Final Flow Pressure		<u>21</u> PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure		<u>77</u> PSI	(depth) <u>3402</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>20</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>28</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>75</u> PSI	Initial Opening <u>45</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1626</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
			Final Flow <u>45</u>	Shale Packer _____
			Final Shut-In <u>45</u>	Mileage <u>12 24</u>

TRILLOBITE 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.

Approved By _____ T-Started 12:41 Std. By _____
 Our Representative Jason McLenon T-Open 14:05 Other _____
 T-Pulled 17:05 Total: 924
 T-Out 18:20

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20215

05/03

Test Ticket

Well Name & No. Leikam # C-1 Test No. 2 Date 11-8-04
 Company Downing-Nelson Oil Co. Inc Zone Tested Arbuckle
 Address Po Box 372, Hays, Ks. 67601 Elevation 2060 KB 2055 GL
 Co. Rep / Geo. Gator Cont. A & A Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 13 Rge. 17 Co. Ellis State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3550 - 3598 Initial Str Wt./Lbs. 48,000 Unseated Str Wt./Lbs. 48,000
 Anchor Length 48' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 3545 Tool Weight 2800
 Bottom Packer Depth 3550 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3598 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 9.2 LCM 1# Vis. 45 WL 10.4 Drill Pipe Size 4 1/2 XH-FH Ft. Run 3546
 Blow Description TFP - Weak Blow, Built to 4 1/2" Pled in 15 min.
ISI - Dead
FFP - Dead
FSI - Dead

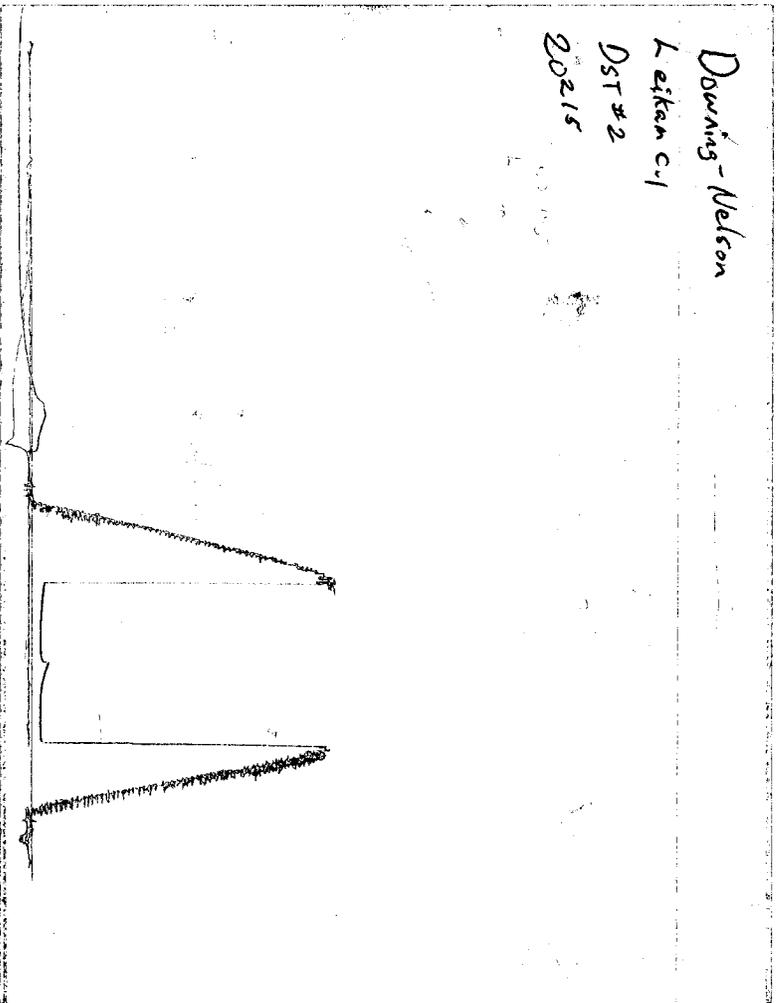
Recovery - Total Feet 6 GIP _____ Ft. in DC _____ Ft. in DP _____
 Rec. 1 Feet of Free Oil %gas _____ %oil _____ %water _____ %mud _____
 Rec. 5 Feet of SOCK %gas 5 %oil _____ %water 95 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 92 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System

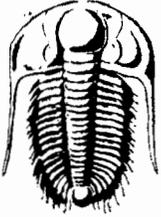
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1775</u> PSI	<u>6753</u>	<input checked="" type="checkbox"/> <u>900</u>
(B) First Initial Flow Pressure		<u>13</u> PSI	(depth) <u>3552</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		<u>14</u> PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure		<u>83</u> PSI	(depth) <u>3595</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>19</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>15</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>47</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1757</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>30</u>	Mileage <u>12 24</u>
			T-On Location <u>16:45</u>	Sub Total: <u>924</u>
			T-Started <u>17:15</u>	Std. By _____
			T-Open <u>18:30</u>	Other _____
			T-Pulled <u>20:30</u>	Total: <u>924</u>
			T-Out <u>21:50</u>	

Approved By _____
 Our Representative Jason McFarmer

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.

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20216

05/03

Test Ticket

Well Name & No. <u>Leikam # C-1</u>	Test No. <u>3</u>	Date <u>11-9-04</u>
Company <u>Dowling-Nelson Oil Co, Inc.</u>	Zone Tested <u>Arbuckle</u>	
Address <u>Po Box 372, Hays, KS, 67601</u>	Elevation <u>2060</u>	KB <u>2055</u> GL
Co. Rep / Geo. <u>Ron Nelson</u>	Cont. <u>A&A</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>2</u> Twp. <u>13</u> Rge. <u>17</u>	Co. <u>Ellis</u>	State <u>Ks</u>
No. of Copies <u>Reg</u>	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3600 - 3617</u>	Initial Str Wt./Lbs. <u>49,000</u>	Unseated Str Wt./Lbs. <u>49,000</u>
Anchor Length <u>17'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>52,000</u>
Top Packer Depth <u>3595</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3600</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3617</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>0</u>
Mud Wt. <u>9.2</u> LCM <u>1#</u> Vis. <u>45</u> WL <u>10.7</u>	Drill Pipe Size <u>4 1/2 XH - FH</u>	Ft. Run <u>3602</u>

Blow Description I FP - Fair Blow, Built to 5 1/2"
ISI - Dead
FFP - Weak Blow, Built to 1/2"
FSI - Dead

Recovery - Total Feet <u>90</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>90</u>	Feet of <u>Muddy Water</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>99</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW <u>.310</u>	@ <u>60</u> °F	Chlorides <u>24,000</u> ppm	Recovery _____ Chlorides <u>6,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1800</u> PSI	Alpine	Recorder No. <u>6753</u>	Test <u>✓ 900</u>
(B) First Initial Flow Pressure	<u>14</u> PSI		(depth) <u>3602</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>39</u> PSI		Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1054</u> PSI		(depth) <u>3614</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>70</u> PSI		Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>61</u> PSI		(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1016</u> PSI	Initial Opening <u>45</u>	Initial Shut-In <u>45</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1777</u> PSI	Final Flow <u>45</u>	Final Shut-In <u>45</u>	Ext. Packer _____
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.		T-On Location <u>2:45</u>	Mileage <u>24</u>	Sub Total: <u>924</u>
Approved By <u>A. [Signature]</u>		T-Started <u>3:47</u>	Std. By _____	Other _____
		T-Open <u>5:20</u>	Total: <u>924</u>	
		T-Pulled <u>8:20</u>		
		<u>10:00</u>		

CHART PAGE

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

