

TRILOBITE
TESTING, INC.

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KCC WICHITA

DRILL STEM TEST REPORT

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

P.O.Box 372
Hays, Ks 67601

ORIGINAL

ATTN: Ron Nelson

19-13s-20w Ellis KS

Augustine # 1-19

Start Date: 2002.12.03 @ 20:29:52


End Date: 2002.12.04 @ 01:55:22

Job Ticket #: 16674 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

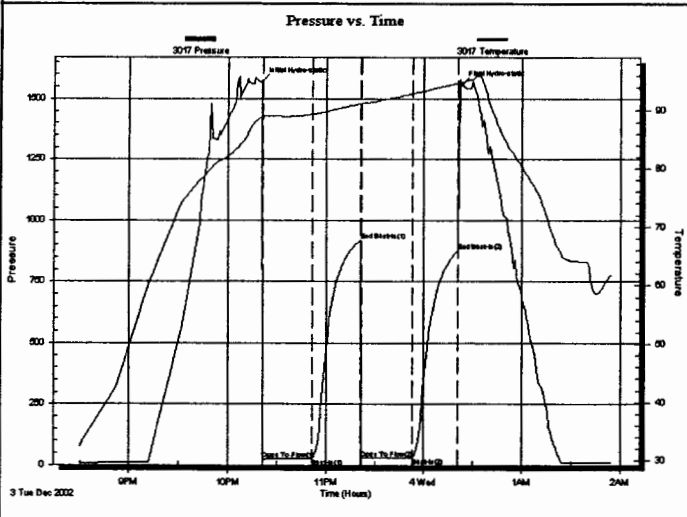
 <p>TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT	
	Downing-Nelson Oil Co. Inc. P.O.Box 372 Hays, Ks 67601 ATTN: Ron Nelson	Augustine # 1-19 19-13s-20w Ellis KS Job Ticket: 16674 DST#: 1 Test Start: 2002.12.03 @ 20:29:52

GENERAL INFORMATION:

Formation: Topeka	Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB)	Tester: John Schriidt
Time Tool Opened: 22:21:22	Unit No: 18
Time Test Ended: 01:55:22	Reference Elevations: 2284.00 ft (KB)
Interval: 3318.00 ft (KB) To 3350.00 ft (KB) (TVD)	2276.00 ft (CF)
Total Depth: 3350.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 3017	Inside		
Press@RunDepth: 31.22 psig @ 3322.01 ft (KB)	Capacity: 7000.00 psig		
Start Date: 2002.12.03	End Date: 2002.12.04	Last Calib.: 2002.12.04	
Start Time: 20:29:54	End Time: 01:55:22	Time On Btm: 2002.12.03 @ 22:20:52	
		Time Off Btm: 2002.12.04 @ 00:23:22	


TEST COMMENT: IF-Weak 1/4" Surface blow ISI-no blow
 FF-Weak 1/4" Surface blow FSI-no blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.80	88.82	Initial Hydro-static
1	24.21	88.94	Open To Flow (1)
31	27.54	89.35	Shut-In(1)
60	917.39	91.21	End Shut-In(1)
61	28.34	91.27	Open To Flow (2)
92	31.22	92.99	Shut-In(2)
120	874.91	94.72	End Shut-In(2)
123	1558.86	94.93	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	Mud with oil specks	0.10

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

 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	<h2 style="margin: 0;">DRILL STEM TEST REPORT</h2>	TOOL DIAGRAM				
Dow ning-Nelson Oil Co. Inc. P.O.Box 372 Hays, Ks 67601 ATTN: Ron Nelson		Augustine # 1-19 19-13s-20w Ellis KS Job Ticket: 16674 DST#: 1 Test Start: 2002.12.03 @ 20:29:52				
Tool Information						
Drill Pipe: Length: 3295.00 ft Heavy Wt. Pipe: Length: 0.00 ft Drill Collar: Length: 31.00 ft Drill Pipe Above KB: 28.00 ft Depth to Top Packer: 3318.00 ft Depth to Bottom Packer: ft Interval between Packers: 32.02 ft Tool Length: 52.02 ft Number of Packers: 2 Diameter: 6.75 inches Tool Comments:	Diameter: 3.80 inches Diameter: 2.70 inches Diameter: 2.25 inches Total Volume: 46.37 bbl	Volume: 46.22 bbl Volume: 0.00 bbl Volume: 0.15 bbl Tool Weight: 3000.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 45000.00 lb Tool Chased 0.00 ft String Weight: Initial 44000.00 lb Final 44000.00 lb				
Tool Description						
	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3299.00		
S.I. Tool	5.00			3304.00		
HMV	5.00			3309.00		
Packer	4.00			3313.00	20.00 Bottom Of Top Packer	
Packer	5.00			3318.00		
Stubb	1.00			3319.00		
Perforations	3.00			3322.00		
Recorder	0.01	3017	Inside	3322.01		
Perforations	25.00			3347.01		
Recorder	0.01	13308	Outside	3347.02		
Bullnose	3.00			3350.02	32.02 Bottom Packers & Anchor	
Total Tool Length:		52.02				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

Augustine # 1-19

P.O.Box 372
Hays, Ks 67601

19-13s-20w Ellis KS

Job Ticket: 16674

DST#: 1

ATTN: Ron Nelson

Test Start: 2002.12.03 @ 20:29:52

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:

bbbl

Water Loss: 7.97 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
20.00	Mud with oil specks	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

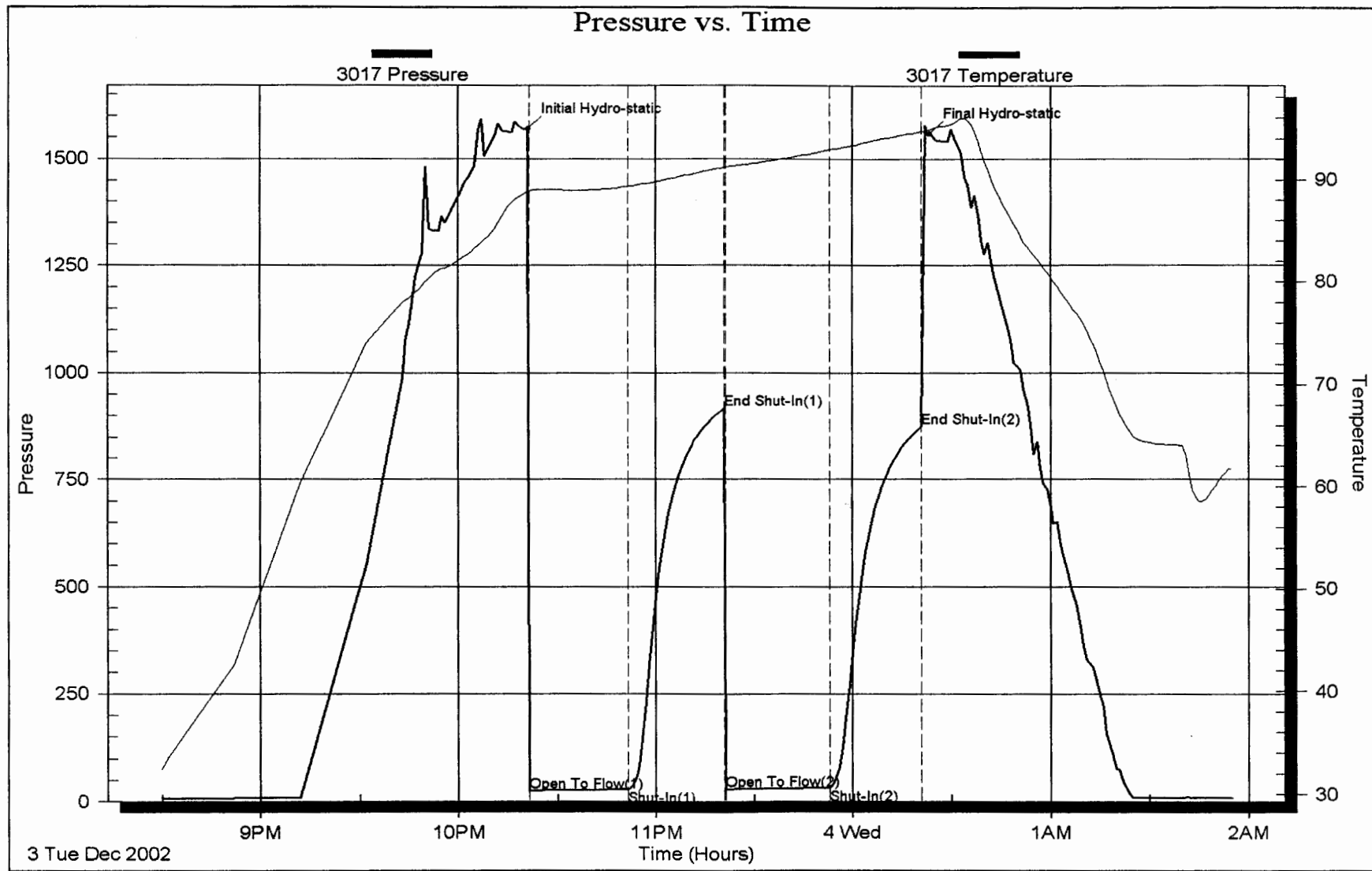
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

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

P.O.Box 372
Hays, Ks 67601

ATTN: Ron Nelson

19-13s-20w Ellis KS

Augustine # 1-19

Start Date: 2002.12.04 @ 18:35:20

End Date: 2002.12.05 @ 00:59:50

Job Ticket #: 16675 DST #: 2

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

Downing-Nelson Oil Co. Inc.

Augustine # 1-19

19-13s-20w Ellis KS

DST # 2

L.Kc.-D

2002.12.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co. Inc.

Augustine # 1-19

P.O.Box 372
Hays, Ks 67601

19-13s-20w Ellis KS

Job Ticket: 16675

DST#: 2

ATTN: Ron Nelson

Test Start: 2002.12.04 @ 18:35:20

Tool Information

Drill Pipe:	Length: 3571.00 ft	Diameter: 3.80 inches	Volume: 50.09 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 2500.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 50.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3611.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	24.02 ft			
Tool Length:	44.02 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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C.O. Sub	1.00			3592.00	
S.I. Tool	5.00			3597.00	
HMV	5.00			3602.00	
Packer	4.00			3606.00	20.00 Bottom Of Top Packer
Packer	5.00			3611.00	
Stubb	1.00			3612.00	
Recorder	0.01	3017	Inside	3612.01	
Perforations	20.00			3632.01	
Recorder	0.01	13308	Outside	3632.02	
Bullnose	3.00			3635.02	24.02 Bottom Packers & Anchor
Total Tool Length:	44.02				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.	Augustine # 1-19
P.O.Box 372 Hays, Ks 67601	19-13s-20w Ellis KS
ATTN: Ron Nelson	Job Ticket: 16675 DST#: 2
	Test Start: 2002.12.04 @ 18:35:20

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	M--C--O--70% mud--30% oil	0.098
160.00	gas in pipe	2.144

Total Length: 180.00 ft Total Volume: 2.242 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

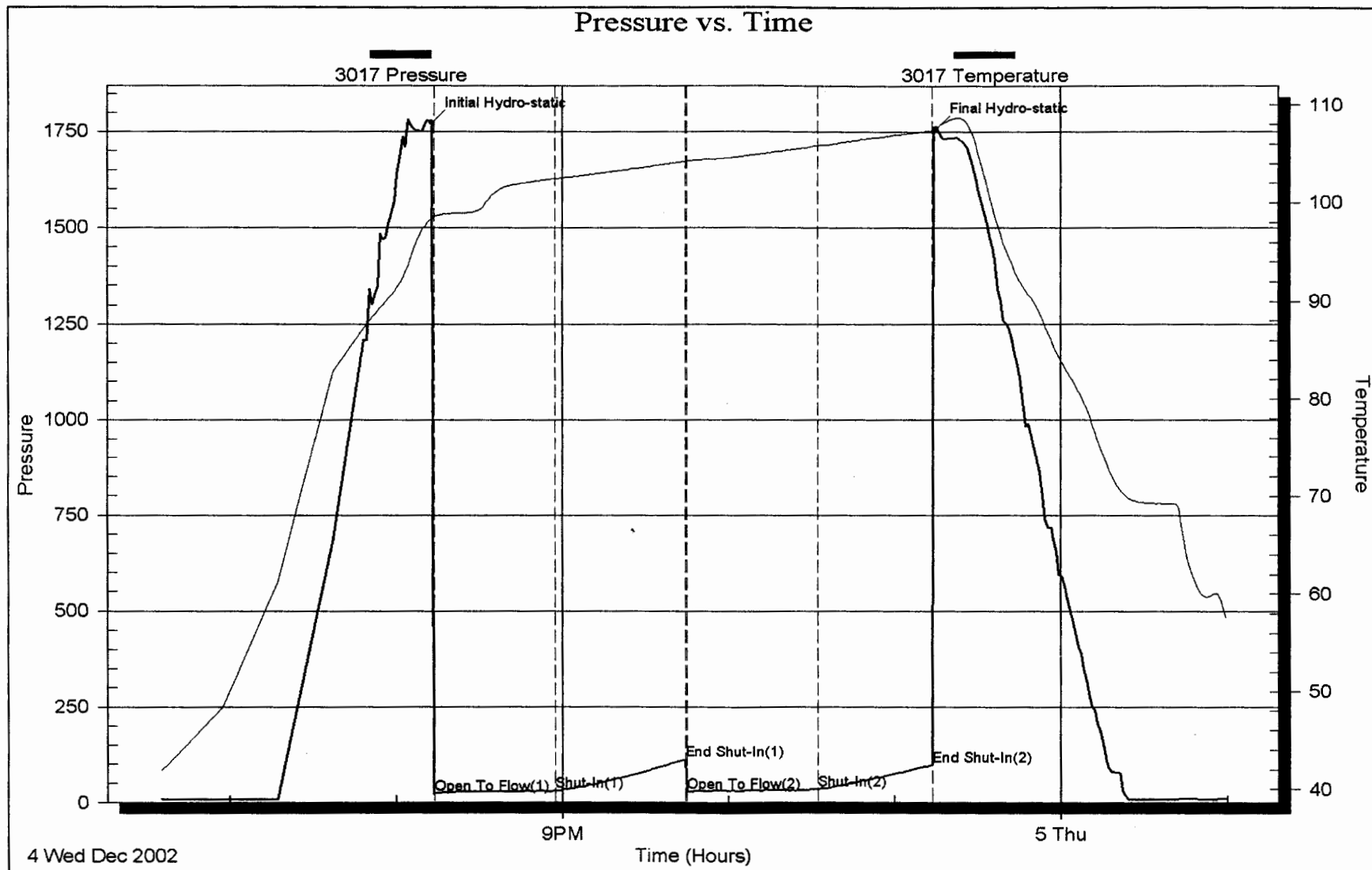
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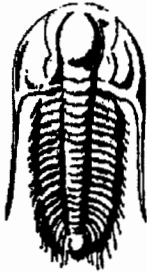
Serial #: 3017

Inside Downing-Nelson Oil Co. Inc.

19-13s-20w Ellis KS

DST Test Number: 2





**TRILOBITE
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DRILL STEM TEST REPORT

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

P.O.Box 372
Hays, Ks 67601

ATTN: Ron Nelson

19-13s-20w Ellis KS

Augustine # 1-19

Start Date: 2002.12.05 @ 16:35:37

End Date: 2002.12.05 @ 23:16:37

Job Ticket #: 16751 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Downing-Nelson Oil Co. Inc.
Augustine # 1-19
19-13s-20w Ellis KS
DST # 3
L.Kc--
2002.12.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co. Inc.

Augustine # 1-19

P.O.Box 372
Hays, Ks 67601

19-13s-20w Ellis KS

Job Ticket: 16751

DST#: 3

ATTN: Ron Nelson

Test Start: 2002.12.05 @ 16:35:37

Tool Information

Drill Pipe:	Length: 3695.00 ft	Diameter: 3.80 inches	Volume: 51.83 bbl	Tool Weight: 3300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 2500.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3718.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	101.02 ft			
Tool Length:	121.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		


Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3699.00	
S.I. Tool	5.00			3704.00	
HMV	5.00			3709.00	
Packer	4.00			3713.00	20.00 Bottom Of Top Packer
Packer	5.00			3718.00	
Stubb	1.00			3719.00	
Perforations	5.00			3724.00	
C.O. Sub	1.00			3725.00	
Recorder	0.01	3017	Inside	3725.01	
Blank Spacing	62.00			3787.01	
Perforations	29.00			3816.01	
Recorder	0.01	13308	Outside	3816.02	
Bullnose	3.00			3819.02	101.02 Bottom Packers & Anchor

Total Tool Length: 121.02

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	FLUID SUMMARY
	Downing-Nelson Oil Co. Inc. P.O.Box 372 Hays, Ks 67601 ATTN: Ron Nelson	Augustine # 1-19 19-13s-20w Ellis KS Job Ticket: 16751 DST#: 3 Test Start: 2002.12.05 @ 16:35:37

Mud and Cushion Information

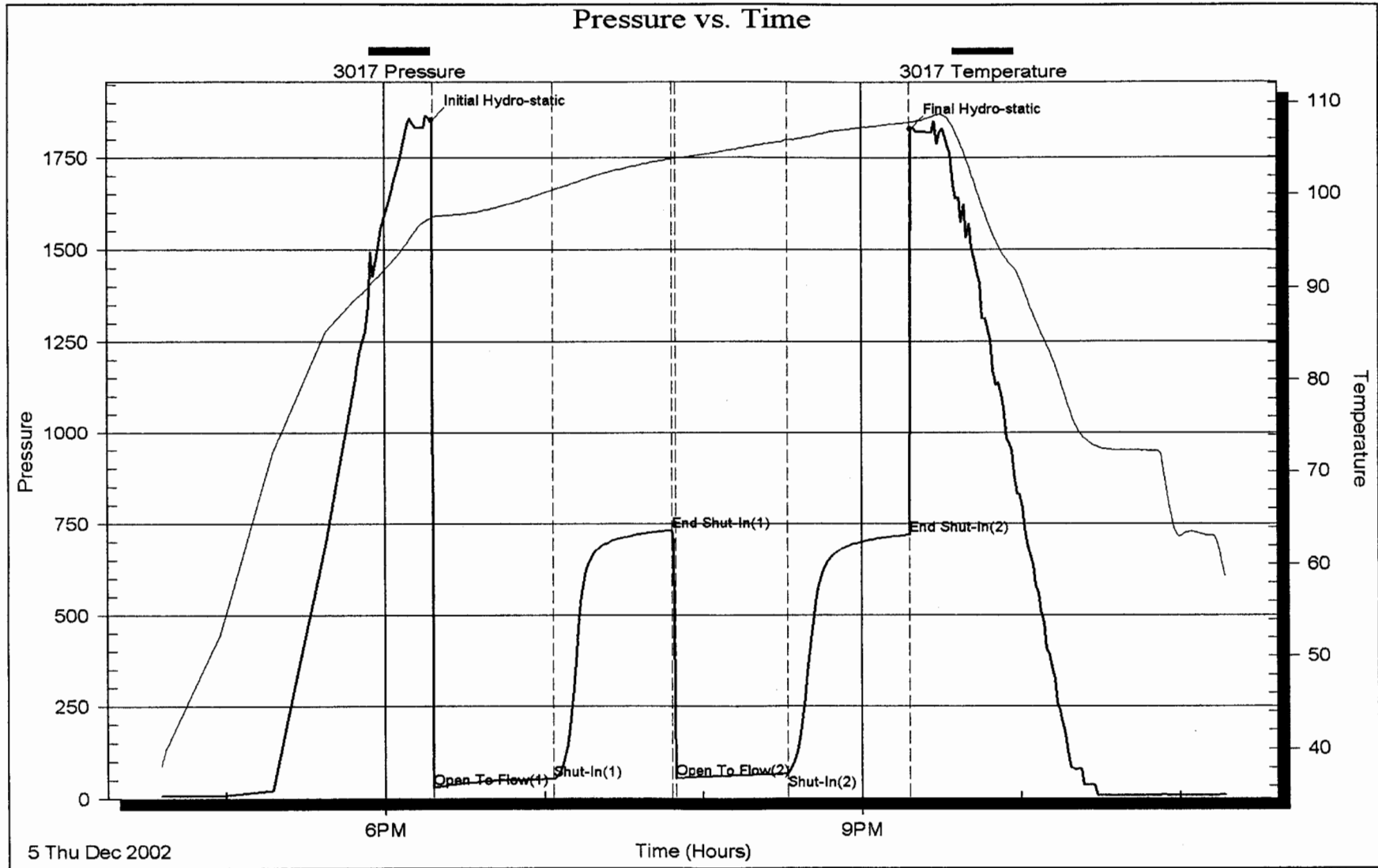
Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 49.00 sec/qt Water Loss: 8.38 in ³ Resistivity: ohm.m Salinity: ppm Filter Cake: inches	Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig	Oil API: deg API Water Salinity: ppm
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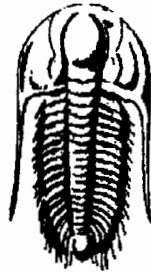
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	O-C-M--20%oil--80%mud	0.910

Total Length: 85.00 ft Total Volume: 0.910 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





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DRILL STEM TEST REPORT

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

P.O.Box 372
Hays, Ks 67601

ATTN: Ron Nelson

19-13s-20w Ellis KS

Augustine # 1-19

Start Date: 2002.12.06 @ 13:27:13


End Date: 2002.12.06 @ 18:26:13

Job Ticket #: 16752 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRIBOLITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

P.O.Box 372
Hays, Ks 67601

ATTN: Ron Nelson

Augustine # 1-19

19-13s-20w Ellis KS

Job Ticket: 16752 **DST#: 4**

Test Start: 2002.12.06 @ 13:27:13

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 14:39:43

Time Test Ended: 18:26:13

Interval: **3893.00 ft (KB) To 3929.00 ft (KB) (TVD)**

Total Depth: **3929.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Reference Elevations: **2284.00 ft (KB)**
2276.00 ft (CF)

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

Serial #: 3017 **Inside**

Press@RunDepth: **38.05 psig @ 3897.01 ft (KB)**

Start Date: **2002.12.06** End Date: **2002.12.06**

Start Time: **13:27:15** End Time: **18:26:13**

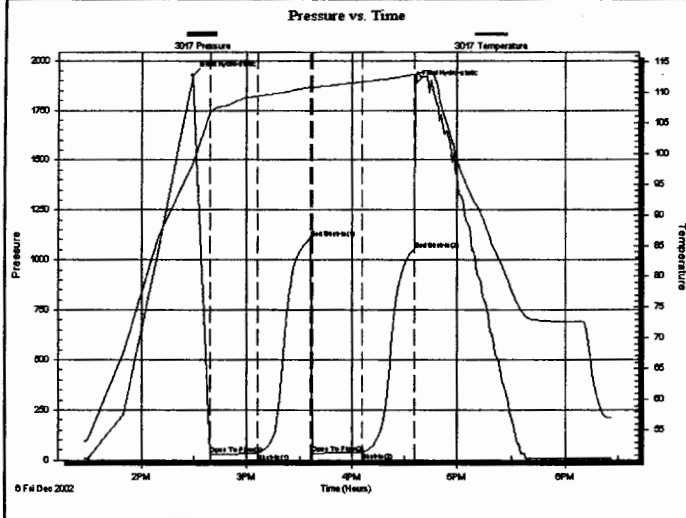
Capacity: **7000.00 psig**

Last Calib.: **2002.12.07**

Time On Btm: **2002.12.06 @ 14:29:13**

Time Off Btm: **2002.12.06 @ 16:36:13**

TEST COMMENT: IF-Weak 1" in IS- no blow
FF-Weak 1" in FS- no blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.82	98.21	Initial Hydro-static
11	26.26	106.75	Open To Flow (1)
38	34.17	109.42	Shut-In(1)
67	1106.09	110.90	End Shut-In(1)
68	35.03	110.97	Open To Flow (2)
97	38.05	111.79	Shut-In(2)
127	1050.89	112.97	End Shut-In(2)
127	1883.38	113.01	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
27.00	O-C-M--45%oil 55%mud	0.13
3.00	Clean 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. Inc.

Augustine # 1-19

P.O.Box 372
Hays, Ks 67601

19-13s-20w Ellis KS

Job Ticket: 16752

DST#: 4

ATTN: Ron Nelson

Test Start: 2002.12.06 @ 13:27:13

Tool Information

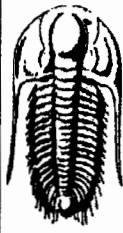
Drill Pipe:	Length: 3852.00 ft	Diameter: 3.80 inches	Volume: 54.03 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 54.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3893.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.02 ft			
Tool Length:	56.02 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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C.O. Sub	1.00			3874.00	
S.I. Tool	5.00			3879.00	
HMV	5.00			3884.00	
Packer	4.00			3888.00	20.00 Bottom Of Top Packer
Packer	5.00			3893.00	
Stubb	1.00			3894.00	
Perforations	3.00			3897.00	
Recorder	0.01	3017	Inside	3897.01	
Perforations	29.00			3926.01	
Recorder	0.01	13308	Outside	3926.02	
Bullnose	3.00			3929.02	36.02 Bottom Packers & Anchor

Total Tool Length: 56.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

Augustine # 1-19

P.O.Box 372
Hays, Ks 67601

19-13s-20w Ellis KS

Job Ticket: 16752

DST#: 4

ATTN: Ron Nelson

Test Start: 2002.12.06 @ 13:27:13

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 52.00 sec/qt
 Water Loss: 7.19 in³
 Resistivity: ohm.m
 Salinity: ppm
 Filter Cake: inches

Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type:
 Gas Cushion Pressure: psig

Oil Apt: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

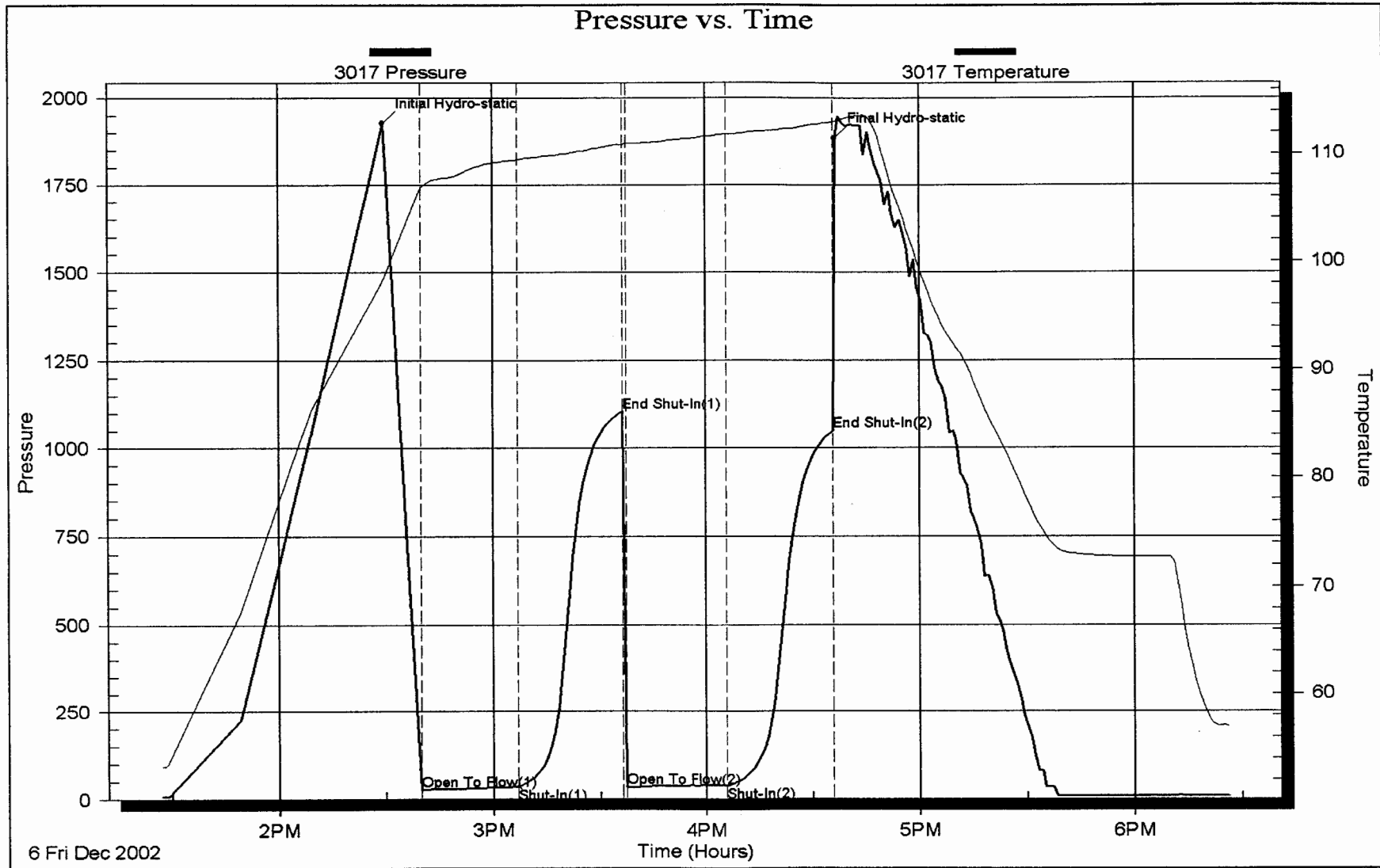
Length ft	Description	Volume bbl
27.00	O-C-M--45%oil 55%mud	0.133
3.00	Clean oil	0.015

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



6 Fri Dec 2002



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DRILL STEM TEST REPORT

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

P.O.Box 372
Hays, Ks 67601

ATTN: Ron Nelson

19-13s-20w Ellis KS

Augustine # 1-19

Start Date: 2002.12.07 @ 00:18:05


End Date: 2002.12.07 @ 07:23:05

Job Ticket #: 16753 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc. **Augustine # 1-19**

P.O.Box 372 **19-13s-20w Ellis KS**
Hays, Ks 67601 Job Ticket: 16753 **DST#: 5**

ATTN: Ron Nelson Test Start: 2002.12.07 @ 00:18:05

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 02:09:05
Time Test Ended: 07:23:05

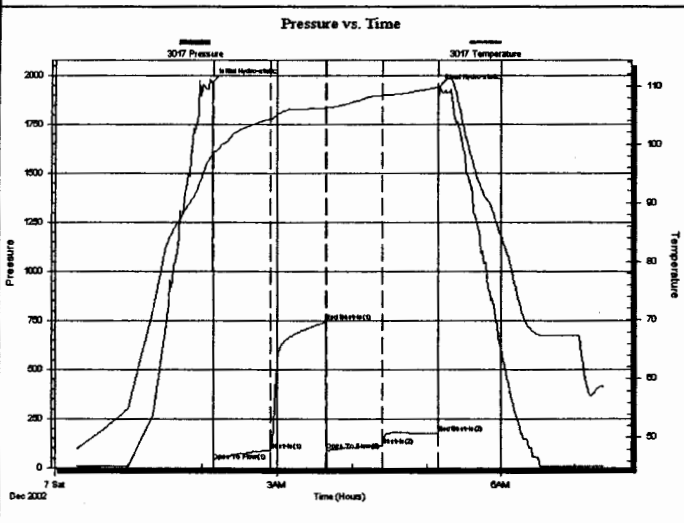
Test Type: **Conventional Bottom Hole**
Tester: **John Schmidt**
Unit No: **18**

Interval: **3893.00 ft (KB) To 3935.00 ft (KB) (TVD)**
Reference Elevations: **2284.00 ft (KB)**
2276.00 ft (CF)
Total Depth: **3935.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **8.00 ft**

Serial #: 3017 **Inside**

Press@RunDepth: **112.86 psig @ 3903.01 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2002.12.07** End Date: **2002.12.07** Last Calib.: **2002.12.07**
Start Time: **00:18:07** End Time: **07:23:05** Time On Btm: **2002.12.07 @ 02:08:35**
Time Off Btm: **2002.12.07 @ 05:09:35**

TEST COMMENT: IF-Good to Strong B.O.B. 18 min ISI-Weak Surface blow back
FF-Good to Strong B.O.B. 28min FSI-Good blow back 2" in



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1964.99	98.34	Initial Hydro-static
1	35.45	98.52	Open To Flow (1)
46	89.40	104.34	Shut-In(1)
91	741.81	106.25	End Shut-In(1)
92	86.80	106.27	Open To Flow (2)
136	112.86	108.36	Shut-In(2)
181	174.72	109.75	End Shut-In(2)
181	1937.42	109.78	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
200.00	M-C-G-O--10%gas-40%mud-50% oil	2.52
50.00	C-G-O--10%gas--90%oil	0.70
290.00	Gas in pipe	4.07

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co. Inc.

Augustine # 1-19

P.O.Box 372
Hays, Ks 67601

19-13s-20w Ellis KS

Job Ticket: 16753

DST#: 5

ATTN: Ron Nelson

Test Start: 2002.12.07 @ 00:18:05

Tool Information

Drill Pipe:	Length: 3852.00 ft	Diameter: 3.80 inches	Volume: 54.03 bbl	Tool Weight: 3100.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 54.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3893.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.02 ft			
Tool Length:	62.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

C.O. Sub	1.00			3874.00	
S.I. Tool	5.00			3879.00	
HMV	5.00			3884.00	
Packer	4.00			3888.00	20.00 Bottom Of Top Packer
Packer	5.00			3893.00	
Stubb	1.00			3894.00	
Perforations	9.00			3903.00	
Recorder	0.01	3017	Inside	3903.01	
Perforations	29.00			3932.01	
Recorder	0.01	13308	Outside	3932.02	
Bullnose	3.00			3935.02	42.02 Bottom Packers & Anchor

Total Tool Length: 62.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.
P.O.Box 372
Hays, Ks 67601

ATTN: Ron Nelson

Augustine # 1-19
19-13s-20w Ellis KS
Job Ticket: 16753 **DST#: 5**
Test Start: 2002.12.07 @ 00:18:05

Mud and Cushion Information

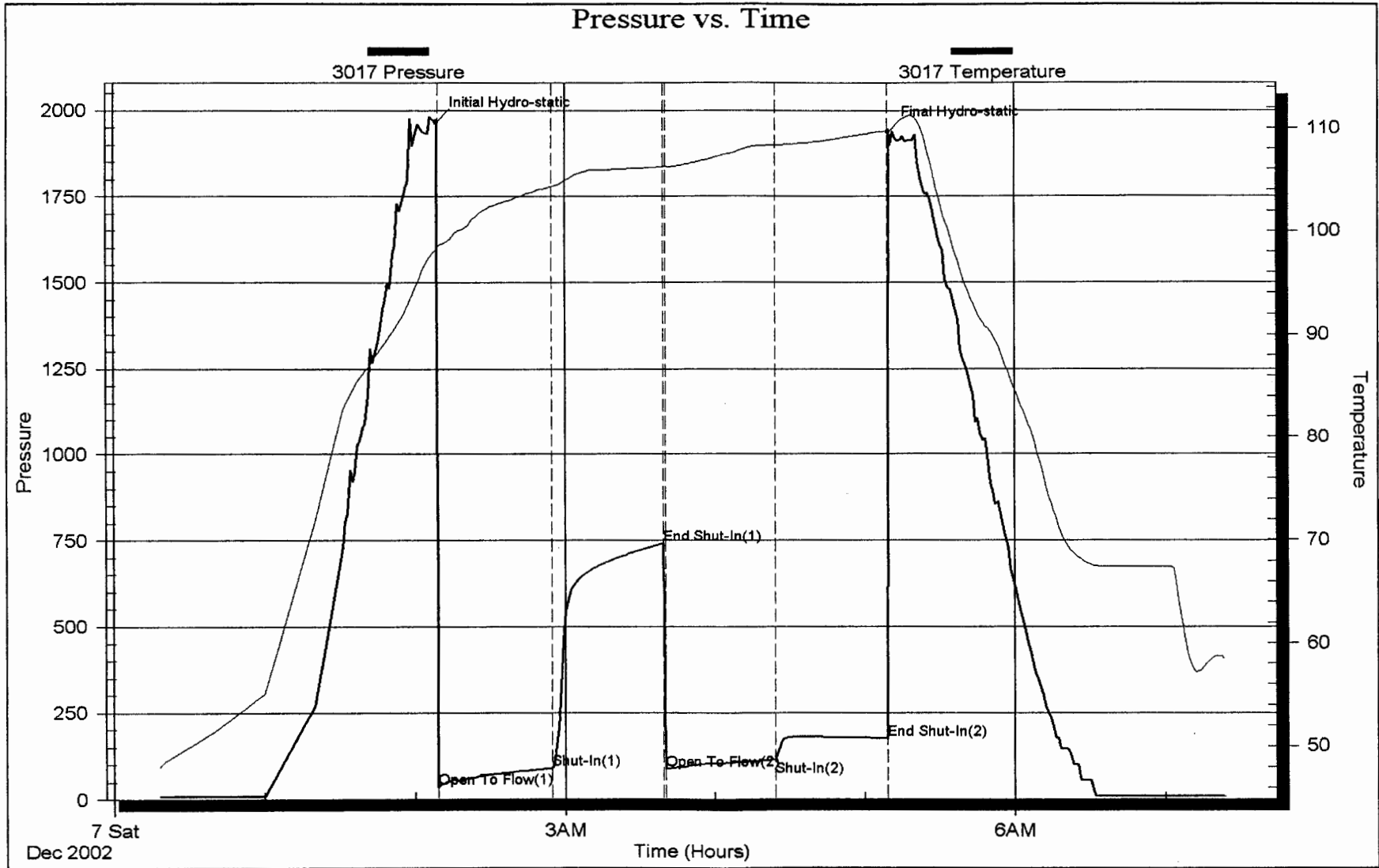
Mud Type: Gel Chem	Cushion Type:	Oil API: 43 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.79 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: ppm		
Filter Cake: inches		

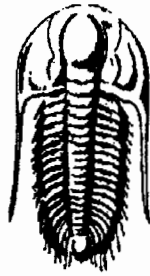
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	M-C-G-O--10%gas-40%mud-50% oil	2.523
50.00	C-G-O--10%gas--90%oil	0.701
290.00	Gas in pipe	4.068

Total Length: 540.00 ft Total Volume: 7.292 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC.**

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DRILL STEM TEST REPORT

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

P.O.Box 372
Hays, Ks 67601

ATTN: Ron Nelson

19-13s-20w Ellis KS

Augustine # 1-19

Start Date: 2002.12.07 @ 23:03:24

End Date: 2002.12.08 @ 06:27:54

Job Ticket #: 16754 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing-Nelson Oil Co. Inc.


Augustine # 1-19

19-13s-20w Ellis KS

DST # 6

Arbuckle

2002.12.07



DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.
P.O.Box 372
Hays, Ks 67601
ATTN: Ron Nelson

Augustine # 1-19
19-13s-20w Ellis KS
Job Ticket: 16754 DST#: 6
Test Start: 2002.12.07 @ 23:03:24

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 00:18:24
 Time Test Ended: 06:27:54

Test Type: **Conventional Bottom Hole**
 Tester: **John Schmidt**
 Unit No: **18**

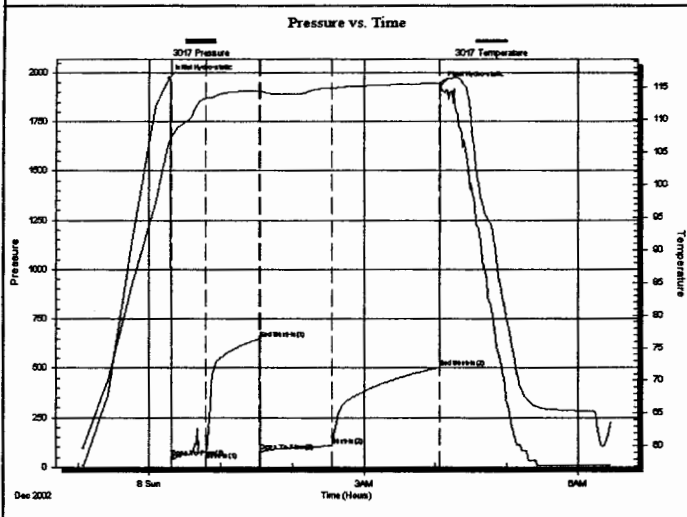
Interval: **3894.00 ft (KB) To 3937.00 ft (KB) (TVD)**
 Total Depth: **3975.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2284.00 ft (KB)**
2276.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 3017 Inside

Press@RunDepth: **106.93 psig @ 3898.01 ft (KB)**
 Capacity: **7000.00 psig**
 Start Date: **2002.12.07** End Date: **2002.12.08**
 Last Calib.: **2002.12.08**
 Start Time: **23:03:26** End Time: **06:27:54**
 Time On Btm: **2002.12.08 @ 00:16:24**
 Time Off Btm: **2002.12.08 @ 04:04:54**

TEST COMMENT: IF-Good to Strong B.O.B.in 25 min IS-no blow back
 FF-Good to Strong B.O.B. in27 min FS-Weak blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1971.96	106.51	Initial Hydro-static
2	46.50	107.22	Open To Flow (1)
32	77.63	113.37	Shut-In(1)
76	648.44	114.46	End Shut-In(1)
77	76.43	114.46	Open To Flow (2)
136	106.93	114.94	Shut-In(2)
227	502.51	115.65	End Shut-In(2)
229	1935.33	115.72	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
180.00	M-C-O-45% mud--55%oil	2.24
20.00	Clean Oil	0.28
160.00	Gas in pipe	2.24

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co. Inc.

Augustine # 1-19

P.O.Box 372
Hays, Ks 67601

19-13s-20w Ellis KS

Job Ticket: 16754

DST#: 6

ATTN: Ron Nelson

Test Start: 2002.12.07 @ 23:03:24

Tool Information

Drill Pipe:	Length: 3852.00 ft	Diameter: 3.80 inches	Volume: 54.03 bbl	Tool Weight: 4000.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Full Loose: 55000.00 lb
			<u>Total Volume: 54.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3894.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.03 ft			
Tool Length:	100.03 ft			
Number of Packers:	2	Diameter: 6.75 inches		


Tool Comments:

Tool Description

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

C.O. Sub	1.00			3875.00		
S.I. Tool	5.00			3880.00		
HMV	5.00			3885.00		
Packer	4.00			3889.00	20.00	Bottom Of Top Packer
Packer	5.00			3894.00		
Stubb	1.00			3895.00		
Perforations	2.00			3897.00		
C.O. Sub	1.00			3898.00		
Recorder	0.01	3017	Inside	3898.01		
Blank Spacing	29.00			3927.01		
C.O. Sub	1.00			3928.01		
Perforations	4.00			3932.01		
Recorder	0.01	13308	Outside	3932.02		
Blank Off Sub	1.00			3933.02	80.03	Tool Interval
Packer	4.00			3937.02		
Stubb	1.00			3938.02		
Perforations	1.00			3939.02		
C.O. Sub	1.00			3940.02		
Perforations	30.00			3970.02		
C.O. Sub	1.00			3971.02		
Recorder	0.01	24174	Below	3971.03		
Bullnose	3.00			3974.03	1000099.03	Bottom Packers & Anchor

Total Tool Length: 100.03

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Downing-Nelson Oil Co. Inc. P.O.Box 372 Hays, Ks 67601 ATTN: Ron Nelson	Augustine # 1-19 19-13s-20w Ellis KS Job Ticket: 16754 DST#: 6 Test Start: 2002.12.07 @ 23:03:24	

Mud and Cushion Information

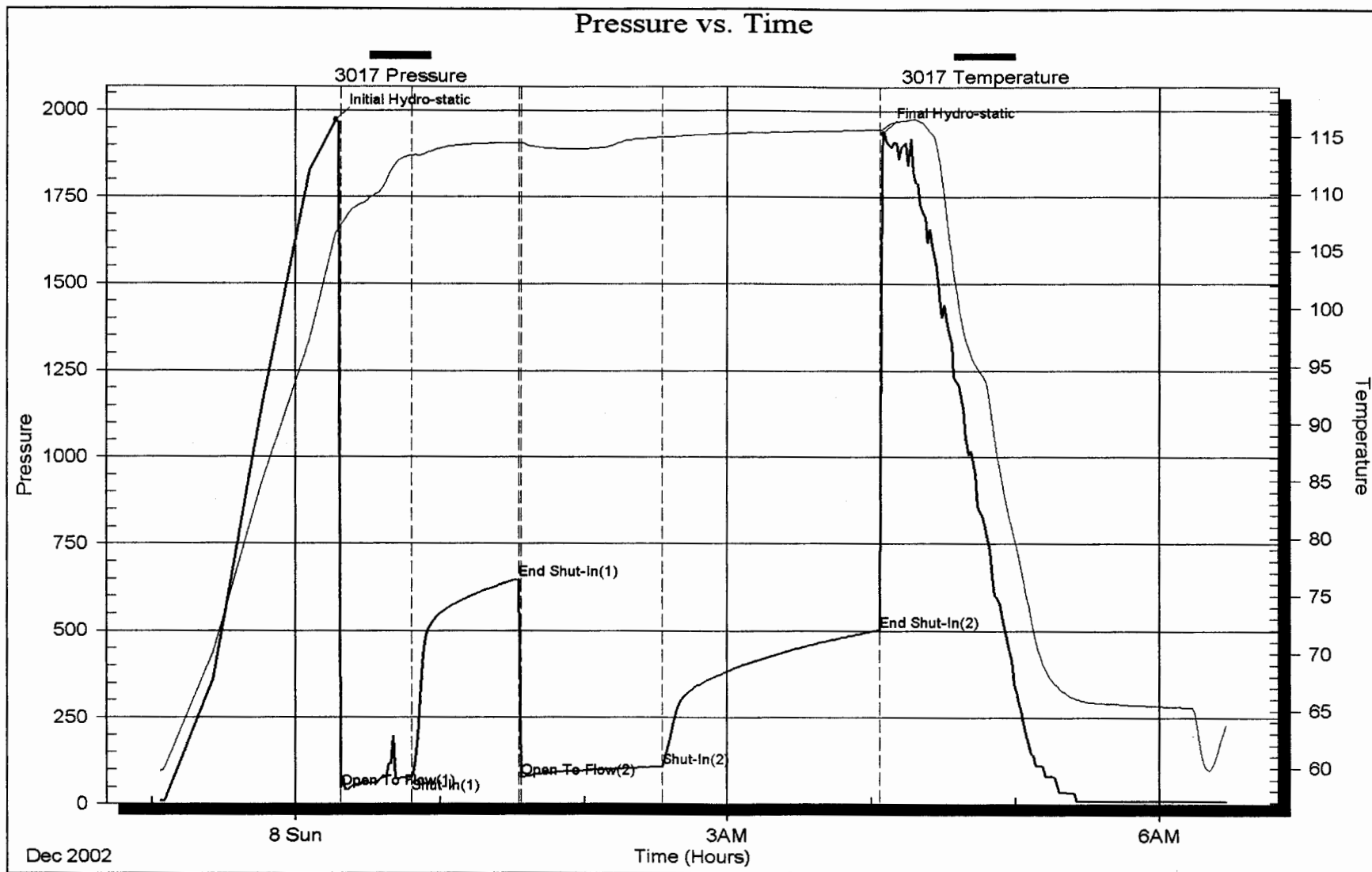
Mud Type: Gel Chem	Cushion Type:	Oil API: 43 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: ppm		
Filter Cake: inches		

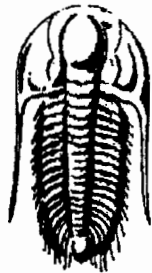
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	M-C-O-45% mud--55% oil	2.243
20.00	Clean Oil	0.281
160.00	Gas in pipe	2.244

Total Length: 360.00 ft Total Volume: 4.768 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC.**

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DRILL STEM TEST REPORT

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

P.O.Box 372
Hays, Ks 67601

ATTN: Ron Nelson

19-13s-20w Ellis KS

Augustine # 1-19

Start Date: 2002.12.08 @ 07:34:08


End Date: 2002.12.08 @ 13:39:08

Job Ticket #: 16755 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

Dow ning-Nelson Oil Co. Inc. **Augustine # 1-19**

P.O.Box 372 **19-13s-20w Ellis KS**
Hays, Ks 67601 Job Ticket: 16755 **DST#: 7**

ATTN: Ron Nelson Test Start: 2002.12.08 @ 07:34:08

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:13:38
Time Test Ended: 13:39:08

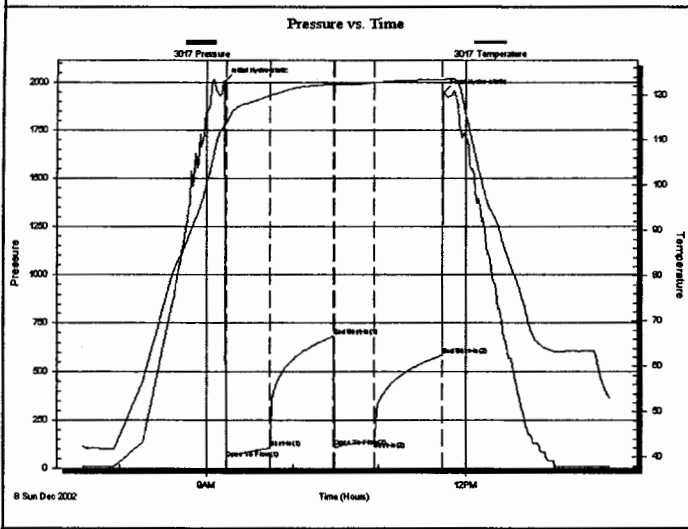
Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 18

Interval: **3937.00 ft (KB) To 3954.00 ft (KB) (TVD)**
Reference Elevations: 2284.00 ft (KB)
Total Depth: 3975.00 ft (KB) (TVD) 2276.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 3017 Inside

Press@RunDepth: 139.05 psig @ 3940.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2002.12.08 End Date: 2002.12.08 Last Calib.: 2002.12.08
Start Time: 07:34:10 End Time: 13:39:08 Time On Btm: 2002.12.08 @ 09:12:38
Time Off Btm: 2002.12.08 @ 11:44:38

TEST COMMENT: F-Strong B.O.B. in 11min. IS- no blow
FF- Good built to 9" in FS- good blow back 2" in



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.09	113.30	Initial Hydro-static
1	49.81	113.73	Open To Flow (1)
32	104.26	119.95	Shut-In(1)
76	683.27	122.45	End Shut-In(1)
77	107.23	122.45	Open To Flow (2)
105	139.05	122.79	Shut-In(2)
151	583.94	123.46	End Shut-In(2)
152	1943.63	123.47	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	salt water	0.56
170.00	M-G-W-C-oil-30%mud-10%gas-10%wat2.38%oil	2.38
50.00	G-oil 10%gas 90%oil	0.70
460.00	gas in pipe	6.45

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co. Inc.

Augustine # 1-19

P.O.Box 372
Hays, Ks 67601

19-13s-20w Ellis KS

Job Ticket: 16755

DST#: 7

ATTN: Ron Nelson

Test Start: 2002.12.08 @ 07:34:08


Tool Information

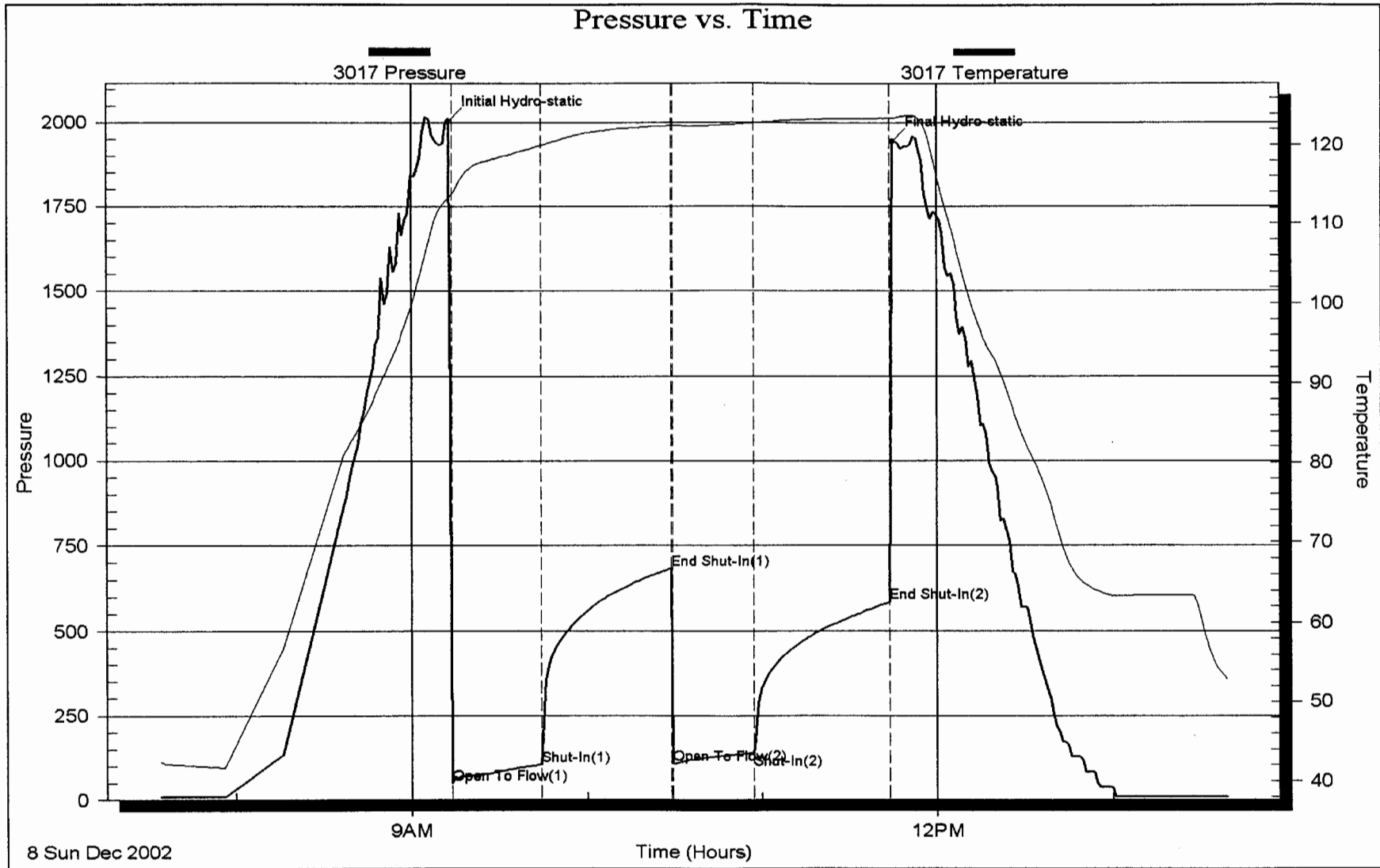
Drill Pipe:	Length: 3914.00 ft	Diameter: 3.80 inches	Volume: 54.90 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 55.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3937.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.03 ft			
Tool Length:	57.03 ft			
Number of Packers:	2	Diameter: 6.75 inches		

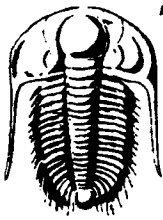
Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3918.00	
S.I. Tool	5.00			3923.00	
HMV	5.00			3928.00	
Packer	4.00			3932.00	20.00 Bottom Of Top Packer
Packer	5.00			3937.00	
Stubb	1.00			3938.00	
Perforations	2.00			3940.00	
Recorder	0.01	3017	Inside	3940.01	
Perforations	9.00			3949.01	
Recorder	0.01	13308	Outside	3949.02	
Blank Off Sub	1.00			3950.02	37.03 Tool Interval
Packer	4.00			3954.02	
Stubb	1.00			3955.02	
Perforations	16.00			3971.02	
Recorder	0.01	24174	Below	3971.03	
Bullnose	3.00			3974.03	1000056.03 Bottom Packers & Anchor
Total Tool Length:	57.03				

 TRILOBITE TESTING, INC.		DRILL STEM TEST REPORT		FLUID SUMMARY	
		Downing-Nelson Oil Co. Inc. P.O.Box 372 Hays, Ks 67601 ATTN: Ron Nelson		Augustine # 1-19 19-13s-20w Ellis KS Job Ticket: 16755 DST#: 7 Test Start: 2002.12.08 @ 07:34:08	
Mud and Cushion Information					
Mud Type:	Gel Chem	Cushion Type:		Oil API:	44 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	30000 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbf		
Water Loss:	7.19 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				
Recovery Information					
Recovery Table					
	Length ft	Description		Volume bbf	
	60.00	salt water		0.559	
	170.00	M-G-W-C-oil--30% mud-10% gas-10% wate50'		2.385	
	50.00	G-oil 10% gas 90% oil		0.701	
	460.00	gas in pipe		6.453	
Total Length:	740.00 ft	Total Volume:	10.098 bbl		
Num Fluid Samples:	0		Num Gas Bombs:	0	
Laboratory Name:			Serial #:		
Laboratory Location:					
Recovery Comments:					





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Inw. #5302

No 16674

Test Ticket

Well Name & No. AUGUSTINE #1-19 Test No. #1 Date 12-03-02
 Company DOWNING-NELSON OIL CO. INC. Zone Tested TOPEKA
 Address P.O. BOX 372 HAYS, KS, 67601 Elevation 2284 KB 2276 GL
 Co. Rep / Geo. RON NELSON Cont. DISCOVERY #2 Est. Ft. of Pay Por. %
 Location: Sec. 19 Twp. 135 Rge. 20 W Co. ELLIS State KS
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3318 TO 3350 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 44,000
 Anchor Length 32' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 45,000
 Top Packer Depth 3313 Tool Weight 3,000
 Bottom Packer Depth 3318 Hole Size — 7/8" Rubber Size — 6 3/4"
 Total Depth 3350 Wt. Pipe Run Drill Collar Run 31
 Mud Wt. 8.8 LCM1* Vis. 45 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3295
 Blow Description FF-WEAK 1/4" SURFACE BLOW FSI-NO BLOW
FF-WEAK 1/4" SURFACE BLOW FSI-NO BLOW

Recovery — Total Feet 20' GIP Ft. in DC 20' Ft. in DP 0
 Rec. 20' Feet Of MUD @ OIL SPECKS %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 94 °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 6,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		1568		3017	19:30
(B) First Initial Flow Pressure		24	PSI	(depth) 3322	T-Started 20:30
(C) First Final Flow Pressure		27	PSI	Recorder No. 13308	T-Open 22:20
(D) Initial Shut-In Pressure		917	PSI	(depth) 3347	T-Pulled 00:23
(E) Second Initial Flow Pressure		28	PSI	Recorder No. <u> </u>	T-Out 01:55
(F) Second Final Flow Pressure		31	PSI	(depth) <u> </u>	T-Off Location 02:30
(G) Final Shut-in Pressure		874	PSI	Initial Opening 30	Test <u>BOTTOM HOLE 700</u>
(Q) Final Hydrostatic Mud		1558	PSI	Initial Shut-in 30	Jars <u> </u>
				Final Flow 30	Safety Joint <u> </u>
				Final Shut-in 30	Straddle <u> </u>
					Circ. Sub <u> </u>
					Sampler <u> </u>
					Extra Packer <u> </u>
					Elec. Rec. <input checked="" type="checkbox"/> 150
					Mileage <u>20</u> <u>20</u>
					Other <u> </u>
					TOTAL PRICE \$ <u>870</u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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.

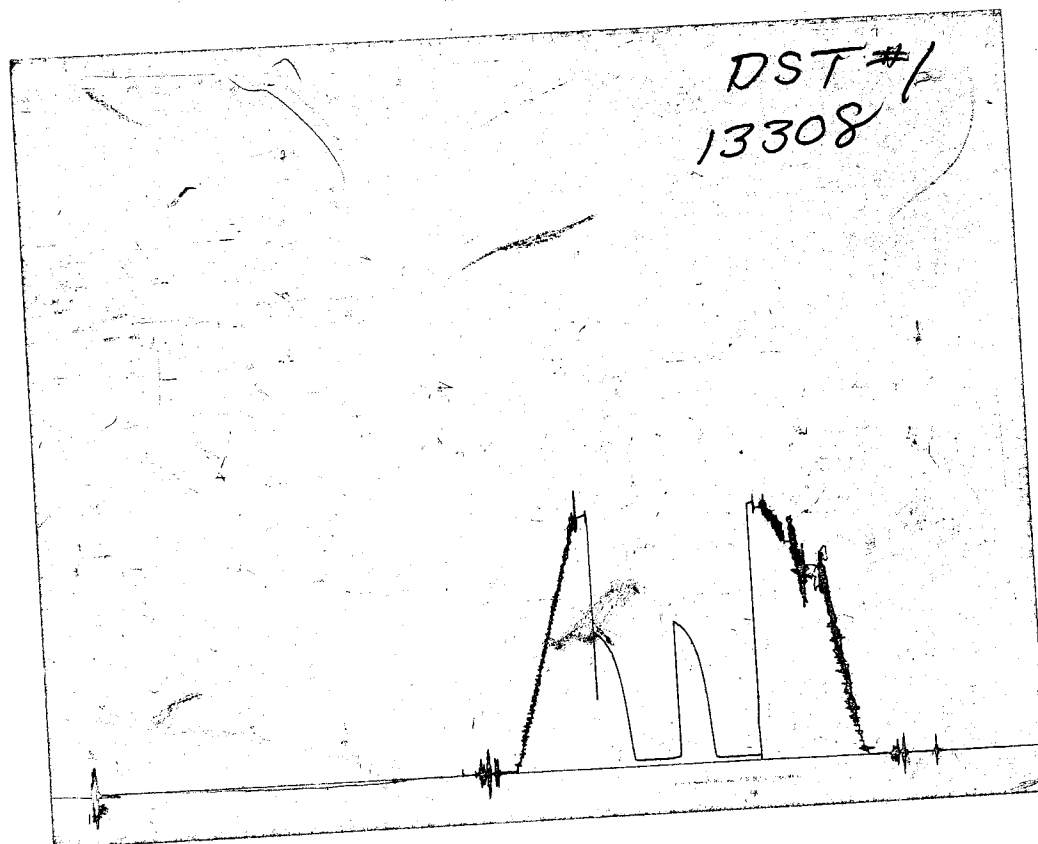
Approved By

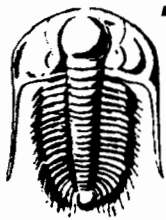
Our Representative John F. Schmidt

Extra Packer
 Elec. Rec. 150
 Mileage 20 20
 Other
 TOTAL PRICE \$ 870

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16675

Test Ticket

Well Name & No. AUGUSTINE #1-19 Test No. #2 Date 12-04-02
 Company DOWNING-NELSON OIL CO. INC. Zone Tested L, KC, - D
 Address P.O. BOX 372 HAYS, KS. 67601 Elevation 2284 KB 2276 GL
 Co. Rep / Geo. RON NELSON Cont. DISCOVERY #2 Est. Ft. of Pay Por. %
 Location: Sec. 19 Twp. 13S Rge. 20W Co. ELLIS State KS
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3611 To 3635 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 43,000
 Anchor Length 24' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth ~~3606~~ 3606 Tool Weight 2,800
 Bottom Packer Depth ~~3611~~ 3611 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 3635 Wt. Pipe Run Drill Collar Run 31'
 Mud Wt. 9.0 LCM 1/2" Vis. 49 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3571
 Blow Description IF. - WEAR TO FAIR 4" IN FSI - VERY WEAK BLOW BACK
FF. WEAK TO FAIR 4 1/2" IN FSI - VERY WEAK BLOW BACK

Recovery — Total Feet 20' GIP 160' Ft. in DC 20' Ft. in DP
 Rec. 20' Feet Of MUD CUT OIL %gas 30 %oil %water 70 %mud
 Rec. 160' Feet Of GAS IN PIPE %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 107 °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		1772		3017	17:30
(B) First Initial Flow Pressure		23	PSI	(depth) 3612	T-Started 18:35
(C) First Final Flow Pressure		29	PSI	Recorder No. 13308	T-Open 20:12
(D) Initial Shut-in Pressure		111	PSI	(depth) 3632	T-Pulled 23:15
(E) Second Initial Flow Pressure		28	PSI	Recorder No. <u> </u>	T-Out 00:59
(F) Second Final Flow Pressure		33	PSI	(depth) <u> </u>	T-Off Location 01:30
(G) Final Shut-in Pressure		97	PSI	Initial Opening 45	Test <u>BOTTOM HOLE 700</u>
(Q) Final Hydrostatic Mud		1758	PSI	Initial Shut-in 45	Jars <u> </u>
				Final Flow 45	Safety Joint <u> </u>
				Final Shut-in 45	Straddle <u> </u>

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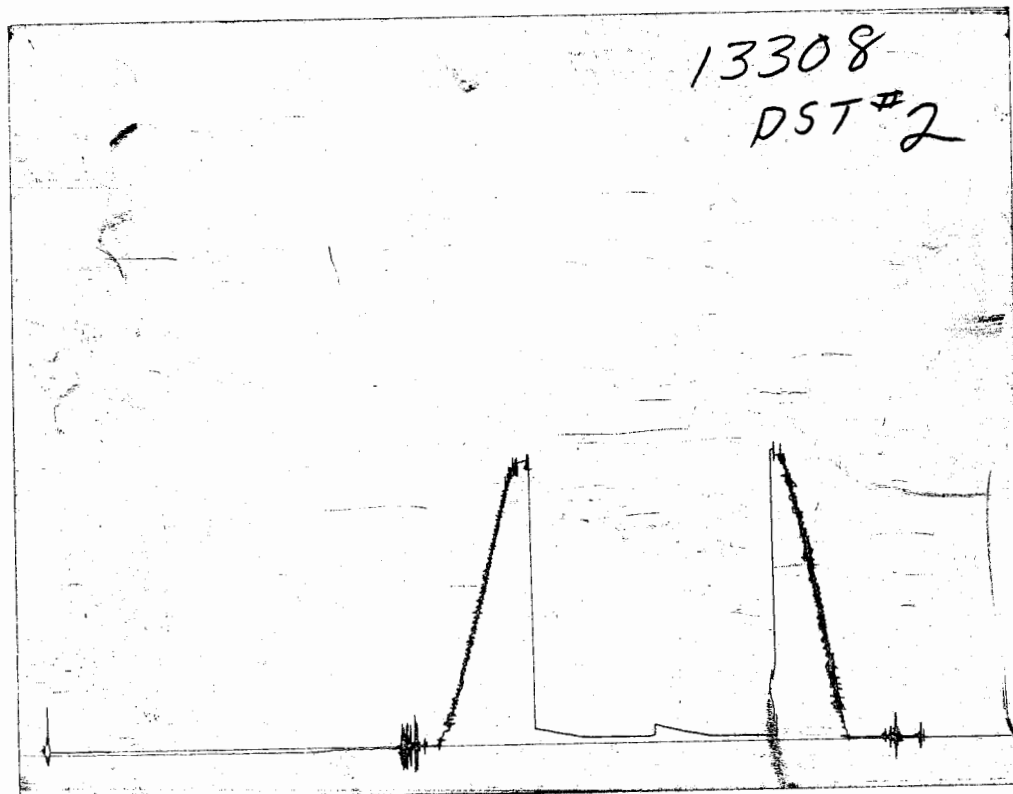
Approved By

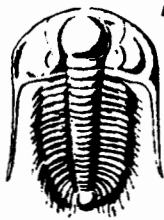
Our Representative John J. Schmitt

Elec. Rec. ✓ 150
 Mileage 20 20
 Other
 TOTAL PRICE \$ 80

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16751

Test Ticket

Well Name & No. AUGUSTINE #1-19 Test No. #03 Date 12-05-02
 Company DOWNING-NELSON OIL CO. INC. Zone Tested LKC, - H I J K L
 Address P.O. BOX 372 HAYS, KS. 67601 Elevation 2284 KB 2276 GL
 Co. Rep / Geo. RON NELSON Cont. DISCOVERY #2 Est. Ft. of Pay Por. %
 Location: Sec. 19 Twp. 13 S Rge. 20 W Co. ELLIS State KS.
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3718 To 3820 Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000
 Anchor Length 102' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 59,000
 Top Packer Depth 3713 Tool Weight 3300
 Bottom Packer Depth 3718 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3820 Wt. Pipe Run Drill Collar Run 31
 Mud Wt. 9.3 LCM TR Vis. 49 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3695
 Blow Description FF - WEAK TO FAIR 5" IN FSI - NO BLOW
FF - WEAK BUILT TO 3" IN FSI - NO BLOW

Recovery — Total Feet 85 GIP Ft. in DC 31 Ft. in DP 54
 Rec. 85' Feet Of 0-C-M %gas 20 %oil %water 80 %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 107 °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1852</u>		<u>3017</u>	<u>16:00</u>
(B) First Initial Flow Pressure		<u>28</u>		(depth) <u>3725</u>	T-Started <u>16:35</u>
(C) First Final Flow Pressure		<u>52</u>		Recorder No. <u>13308</u>	T-Open <u>18:17</u>
(D) Initial Shut-In Pressure		<u>231</u>		(depth) <u>3817</u>	T-Pulled <u>21:18</u>
(E) Second Initial Flow Pressure		<u>54</u>		Recorder No. <u> </u>	T-Out <u>23:16</u>
(F) Second Final Flow Pressure		<u>67</u>		(depth) <u> </u>	T-Off Location <u>23:45</u>
(G) Final Shut-in Pressure		<u>718</u>		Initial Opening <u>45</u>	Test <u>BOTTOM HOLE 700</u>
(Q) Final Hydrostatic Mud		<u>1828</u>		Initial Shut-in <u>45</u>	Jars <u> </u>
				Final Flow <u>45</u>	Safety Joint <u> </u>
				Final Shut-in <u>45</u>	Straddle <u> </u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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.

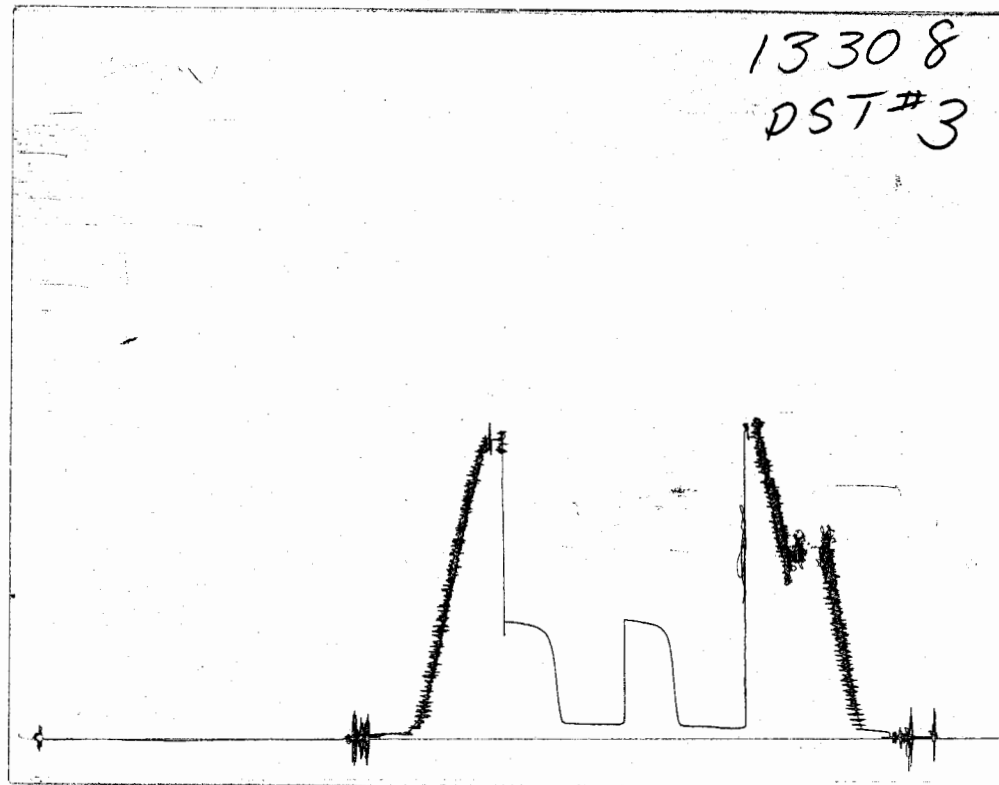
Approved By

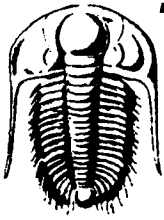
Our Representative John J. Schmidt

Extra Packer
 Elec. Rec. 150
 Mileage 20 20
 Other
 TOTAL PRICE \$ 4800

CHART PAGE

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





TRIOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16752

Test Ticket

Well Name & No. AUGUSTINE #1-19 Test No. #4 Date 12-06-02
 Company DOWNING-NELSON OIL CO, INC. Zone Tested ARBUCKLE
 Address P.O. BOX 372 HAYS, KS, 67601 Elevation 2284 KB 2276 GL
 Co. Rep / Geo. RON NELSON Cont. DISCOVERY #2 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 19 Twp. 135 Rge. 20W Co. ELLIS State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3893 To 3929 Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000
 Anchor Length 36' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth 3888 Tool Weight 3,000
 Bottom Packer Depth 3893 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3929 Wt. Pipe Run _____ Drill Collar Run 31'
 Mud Wt. 9.2 LCM 1/4" Vis. 52 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3852
 Blow Description FF-WEAK 1" IN FSI - NO BLOW
FF-WEAK 1" IN FSI - NO BLOW

Recovery — Total Feet 30' GIP _____ Ft. in DC 30 Ft. in DP _____
 Rec. 27' Feet Of OIL CUT MUD %gas 45 %oil _____ %water 55 %mud _____
 Rec. 3' Feet Of FREE OIL %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 112 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API _____
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System _____

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1925</u>		<u>3017</u>	<u>09:00</u>
(B) First Initial Flow Pressure		<u>26</u>		(depth) <u>3897</u>	T-Started <u>13:27</u>
(C) First Final Flow Pressure		<u>34</u>		Recorder No. <u>13308</u>	T-Open <u>14:29</u>
(D) Initial Shut-In Pressure		<u>1106</u>		(depth) <u>3926</u>	T-Pulled <u>16:34</u>
(E) Second Initial Flow Pressure		<u>35</u>		Recorder No. _____	T-Out <u>18:26</u>
(F) Second Final Flow Pressure		<u>38</u>		(depth) _____	T-Off Location <u>18:45</u>
(G) Final Shut-in Pressure		<u>1050</u>		Initial Opening <u>30</u>	Test <u>BOTTOM HOLE 700</u>
(Q) Final Hydrostatic Mud		<u>1883</u>		Initial Shut-in <u>30</u>	Jars _____
				Final Flow <u>30</u>	Safety Joint _____
				Final Shut-in <u>30</u>	Straddle _____

TRIOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF FOR 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.

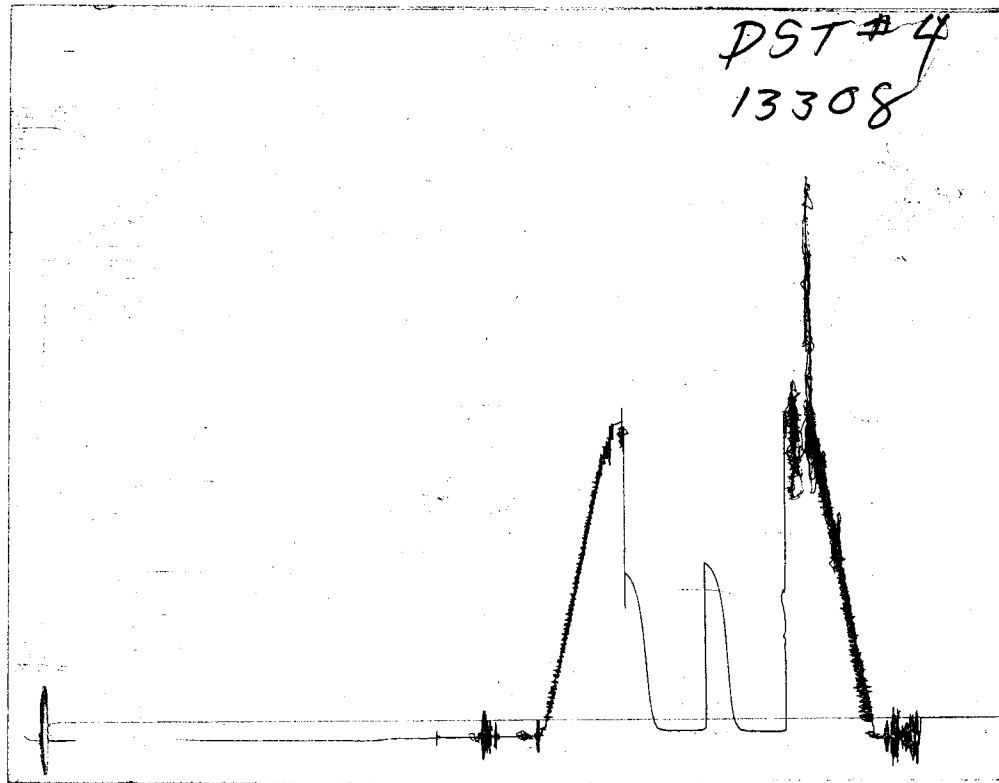
Approved By _____

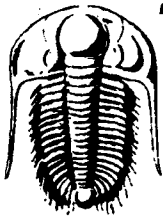
Our Representative John A. Schmidt

Elec. Rec. 150
 Mileage 20 20
 Other _____
 TOTAL PRICE \$ 4870

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16753

Test Ticket

Well Name & No. AUGUSTINE #1-19 Test No. #5 Date 12-07-02
 Company DOWNING-NELSON OIL CO, INC Zone Tested ARBUCKLE
 Address PO, BOX 372 HAYS, KS. 67601 Elevation 2284 KB 2276 GL
 Co. Rep / Geo. RON NELSON Cont. DISCOVERY #2 Est. Ft. of Pay Por. %
 Location: Sec. 19 Twp. 135 Rge. 20W Co. ELLIS State KS
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3893 TO 3935 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 47,000
 Anchor Length 42' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3888 Tool Weight 3,100
 Bottom Packer Depth 3893 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3935 Wt. Pipe Run Drill Collar Run 31
 Mud Wt. 9.2 LCM 14* Vis. 47 WL 7.8 Drill Pipe Size 4 1/2 XH Ft. Run 3852
 Blow Description FF.-GOOD TO STRONG B.O.B. 18 min. FSI.-WEAK SURFACE
BLOW BACK FF.-GOOD TO STRONG B.O.B. 28 min. FSI.-GOOD BLOW BACK
2"

Recovery — Total Feet 250 GIP 290' Ft. in DC 31 Ft. in DP 219
 Rec. 200 Feet Of M.G.C. OIL 10% gas 50% oil %water 40% mud
 Rec. 50 Feet Of CLEAN GASSY OIL 10% gas 90% 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 43 °API D@ 60 °F Corrected Gravity 43 °API
 RW @ °F Chlorides ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1964</u>		<u>3017</u>	<u>23:30</u>
(B) First Initial Flow Pressure		<u>35</u>		(depth) <u>3903</u>	T-Started <u>00:18</u>
(C) First Final Flow Pressure		<u>89</u>		Recorder No. <u>13308</u>	T-Open <u>02:08</u>
(D) Initial Shut-In Pressure		<u>741</u>		(depth) <u>3932</u>	T-Pulled <u>05:09</u>
(E) Second Initial Flow Pressure		<u>86</u>		Recorder No. <u> </u>	T-Out <u>07:23</u>
(F) Second Final Flow Pressure		<u>112</u>		(depth) <u> </u>	T-Off Location <u>08:15</u>
(G) Final Shut-in Pressure		<u>174</u>		Initial Opening <u>45</u>	Test <u>BOTTOM HOLE 700</u>
(Q) Final Hydrostatic Mud		<u>1937</u>		Initial Shut-in <u>45</u>	Jars <u> </u>
				Final Flow <u>45</u>	Safety Joint <u> </u>
				Final Shut-in <u>45</u>	Straddle <u> </u>

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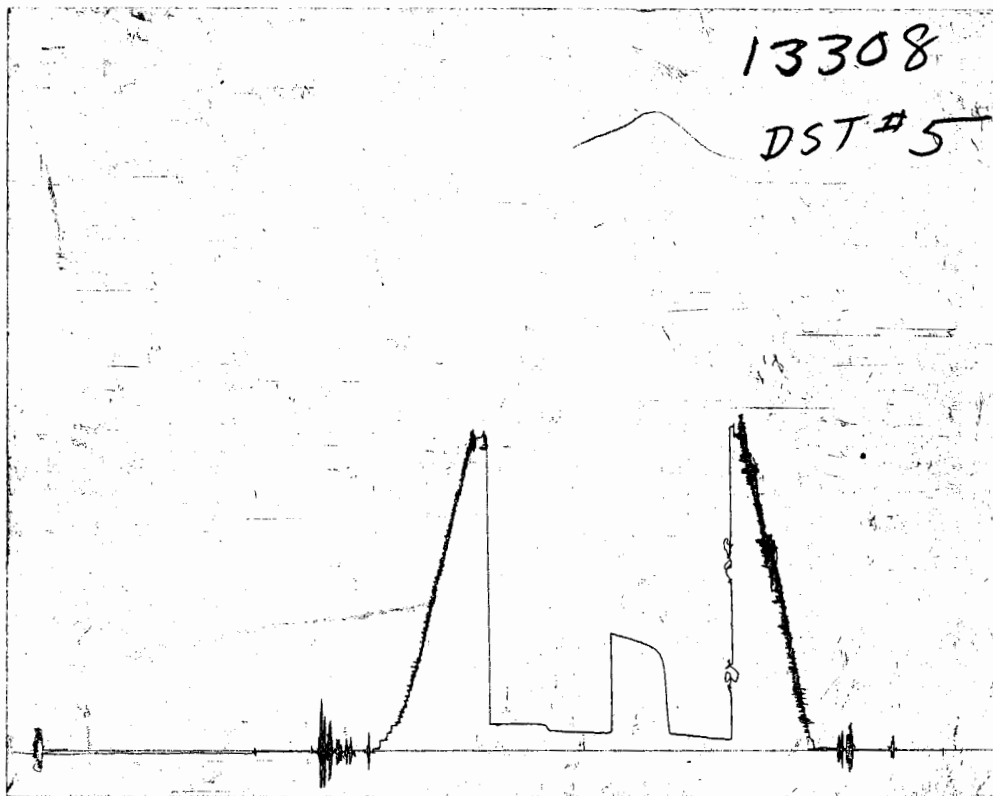
Approved By

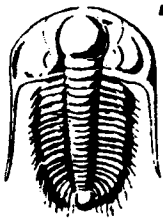
Our Representative John J. Schmitt

Extra Packer
 Elec. Rec. 150
 Mileage 20 20
 Other
 TOTAL PRICE \$ 870

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16754

Test Ticket

Well Name & No. <u>AUGUSTINE #1-19</u>	Test No. <u>#6</u>	Date <u>12-07-02</u>
Company <u>DOWNING-NELSON OKG. INC.</u>	Zone Tested <u>ARBUCKLE</u>	
Address <u>P.O. BOX 372 HAYS, KS 67601</u>	Elevation <u>2284</u>	KB <u>2276</u> GL
Co. Rep / Geo. <u>RON NELSON</u>	Cont. <u>DISCOVERY #2</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>19</u>	Twp. <u>13S</u>	Rge. <u>20W</u> Co. <u>ELLIS</u> State <u>KS</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>3894 To 3937</u>	Initial Str Wt./Lbs. <u>46,000</u>	Unseated Str Wt./Lbs. <u>47,000</u>
Anchor Length <u>43'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>55,000</u>
Top Packer Depth <u>3889</u>	Tool Weight <u>4,000</u>	
Bottom Packer Depth <u>3894</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>3975'</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>31</u>
Mud Wt. <u>9.4</u> LCM <u>TR.</u> Vis. <u>51</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3852</u>
Blow Description <u>IF - GOOD TO STRONG B.O.B. 25-MIN. FSI - NO BLOW</u>		
<u>FF - GOOD TO STRONG B.O.B. 27-MIN. FSI - WEAK BLOW BACK</u>		

Recovery — Total Feet <u>200'</u>	GIP <u>160</u>	Ft. in DC <u>31</u>	Ft. in DP <u>169</u>
Rec. <u>180'</u> Feet Of <u>MUD CUT OIL</u>	%gas <u>55</u> %oil <u> </u> %water <u>45</u> %mud <u> </u>		
Rec. <u>20</u> Feet Of <u>CLEAN OIL</u>	%gas <u>100</u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
BHT <u> </u> °F Gravity <u>43</u>	°API D@ <u>60</u>	°F Corrected Gravity <u>43</u>	°API <u> </u>
RW <u> </u> @ <u> </u> °F Chlorides <u> </u>	ppm Recovery Chlorides <u>4,000</u>	ppm System <u> </u>	

(A) Initial Hydrostatic Mud	AK-1 <u>1971</u> Alpine	PSI Recorder No. <u>3017</u>	T-On Location <u>21:15</u>
(B) First Initial Flow Pressure	<u>46</u>	PSI (depth) <u>3898</u>	T-Started <u>23:03</u>
(C) First Final Flow Pressure	<u>77</u>	PSI Recorder No. <u>13308</u>	T-Open <u>00:16</u>
(D) Initial Shut-In Pressure	<u>648</u>	PSI (depth) <u>3932</u>	T-Pulled <u>04:04</u>
(E) Second Initial Flow Pressure	<u>76</u>	PSI Recorder No. <u>24174</u>	T-Out <u>06:27</u>
(F) Second Final Flow Pressure	<u>106</u>	PSI (depth) <u>3972</u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>502</u>	PSI Initial Opening <u>30</u>	Test <u>STRADDLE 700</u>
(Q) Final Hydrostatic Mud	<u>1935</u>	PSI Initial Shut-in <u>45</u>	Jars <u> </u>
		Final Flow <u>60</u>	Safety Joint <u> </u>
		Final Shut-in <u>90</u>	Straddle <input checked="" type="checkbox"/> <u>250</u>
			Circ. Sub <u> </u>
			Sampler <u> </u>
			Extra Packer <input checked="" type="checkbox"/> <u>150</u>
			Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
			Mileage <u>20</u> <u>20</u>
			Other <u> </u>
			TOTAL PRICE \$ <u>\$1270</u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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

Our Representative John J. Schmidt

CHART PAGE

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

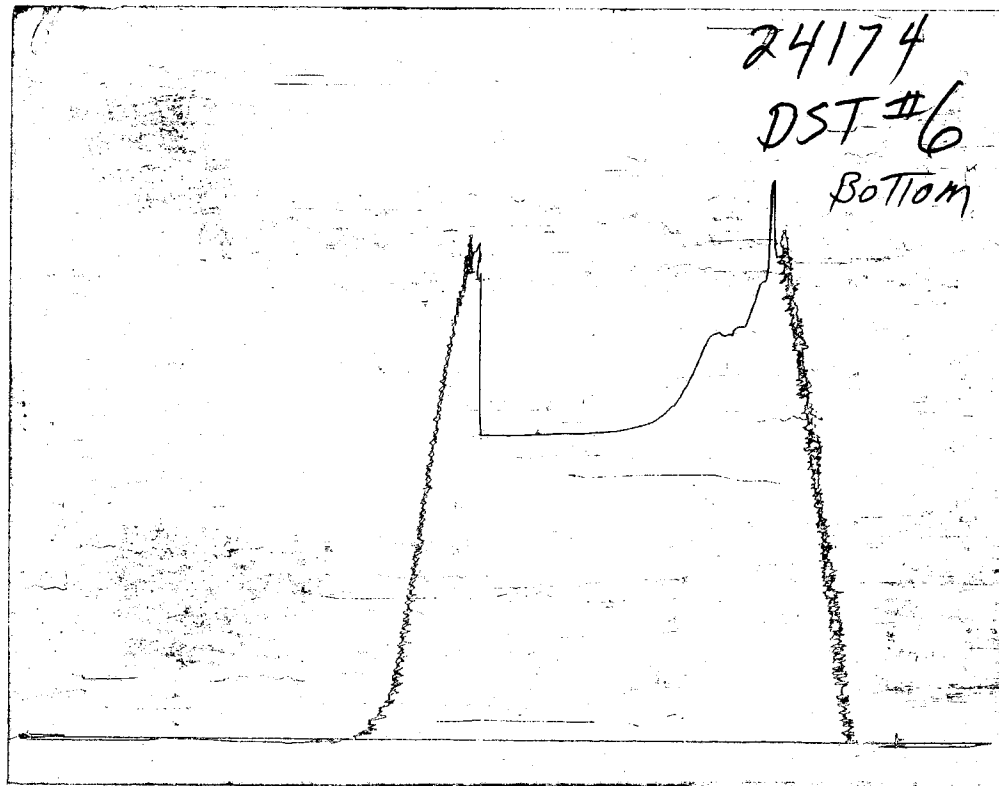
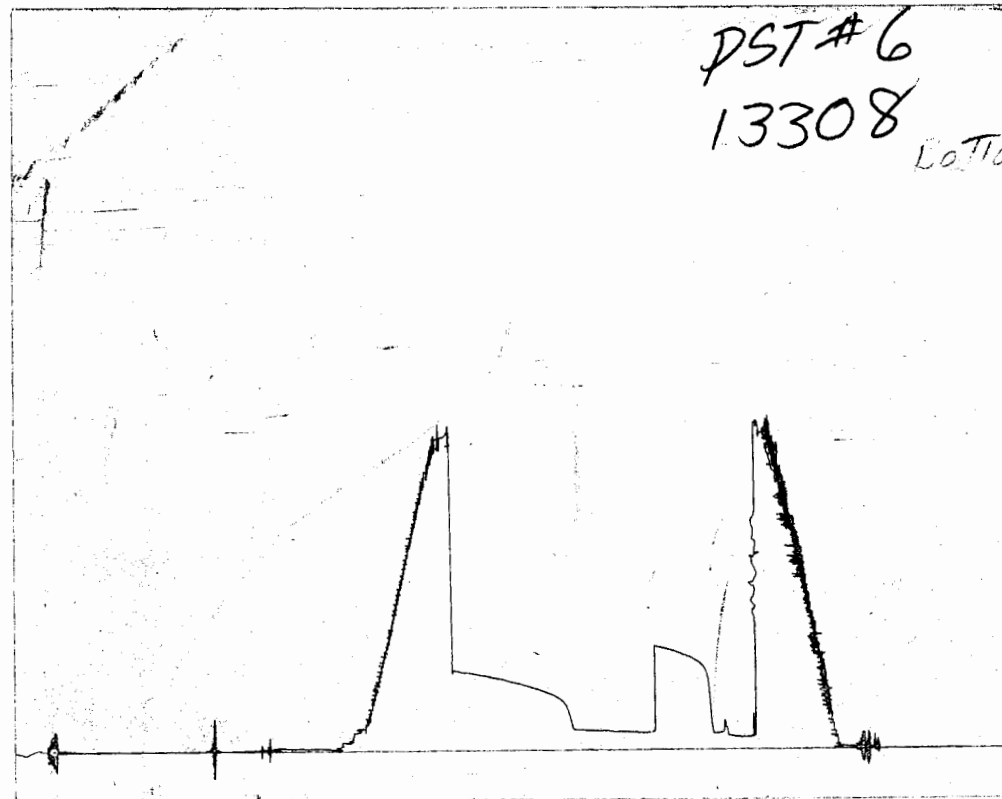
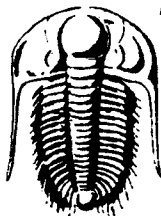


CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16755

Test Ticket

Well Name & No. <u>AUGUSTINE #1-19</u>	Test No. <u>7</u>	Date <u>12-08-02</u>
Company <u>DOWNING-NELSON OIL CO. INC.</u>	Zone Tested <u>ARBUCKLE</u>	
Address <u>P.O. BOX 372 HAYS, KS 67601</u>	Elevation <u>2284</u> KB <u>2276</u> GL	
Co. Rep / Geo. <u>RON NELSON</u>	Cont. <u>DISCOVERY</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>19</u>	Twp. <u>13S</u>	Rge. <u>20W</u> Co. <u>ELLIS</u> State <u>KS</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>3937 TO 3954</u>	Initial Str Wt./Lbs. <u>46,000</u>	Unseated Str Wt./Lbs. <u>47,000</u>
Anchor Length <u>17'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>55,000</u>
Top Packer Depth <u>3932</u>	Tool Weight <u>3,500</u>	
Bottom Packer Depth <u>3937</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>3975</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>31</u>
Mud Wt. <u>9.4</u> LCM <u>TR.</u> Vis. <u>51</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3914</u>
Blow Description <u>IF - STRONG B.O.B. 11 MIN. - ISI - NO BLOW</u>		
<u>FF - GOOD BUILT TO 9" IN</u>	<u>FSI GOOD BLOW BACK 2" IN.</u>	

Recovery — Total Feet <u>280</u>	GIP <u>460'</u>	Ft. in DC <u>31</u>	Ft. in DP <u>249</u>
Rec. <u>60'</u> Feet Of <u>SALT WATER</u>	%gas <u> </u> %oil <u>100</u> %water <u> </u> %mud <u> </u>		
Rec. <u>170'</u> Feet Of <u>M.G.W.C.-OIL</u>	10 %gas <u>50</u> %oil <u>10</u> %water <u>30</u> %mud <u> </u>		
Rec. <u>50'</u> Feet Of <u>G.C.OIL</u>	10 %gas <u>90</u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
BHT <u>123</u> °F Gravity <u>44</u>	°API D@ <u>60</u>	°F Corrected Gravity <u>44</u>	°API <u> </u>
RW <u>25 @ 64</u> °F Chlorides <u>30,000</u> ppm	Recovery Chlorides <u>4,000</u> ppm	System <u> </u>	

(A) Initial Hydrostatic Mud	AK-1 Alpine <u>2004</u> PSI	Recorder No. <u>3017</u>	T-On Location <u>07:00</u>
(B) First Initial Flow Pressure	<u>49</u> PSI	(depth) <u>1</u>	T-Started <u>07:34</u>
(C) First Final Flow Pressure	<u>104</u> PSI	Recorder No. <u>13308</u>	T-Open <u>09:12</u>
(D) Initial Shut-In Pressure	<u>683</u> PSI	(depth) <u> </u>	T-Pulled <u>11:44</u>
(E) Second Initial Flow Pressure	<u>107</u> PSI	Recorder No. <u>24174</u>	T-Out <u>13:39</u>
(F) Second Final Flow Pressure	<u>139</u> PSI	(depth) <u> </u>	T-Off Location <u>14:45</u>
(G) Final Shut-in Pressure	<u>583</u> PSI	Initial Opening <u>30</u>	Test <u>STRADDLE 700</u>
(Q) Final Hydrostatic Mud	<u>1943</u> PSI	Initial Shut-in <u>45</u>	Jars <u> </u>
		Final Flow <u>30</u>	Safety Joint <u> </u>
		Final Shut-in <u>45</u>	Straddle <input checked="" type="checkbox"/> <u>250</u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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 _____

Our Representative John J. Schmidt

Circ. Sub _____
 Sampler _____
 Extra Packer 150
 Elec. Rec. 150
 Mileage _____
 Other _____
 TOTAL PRICE \$ 1250

CHART PAGE

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

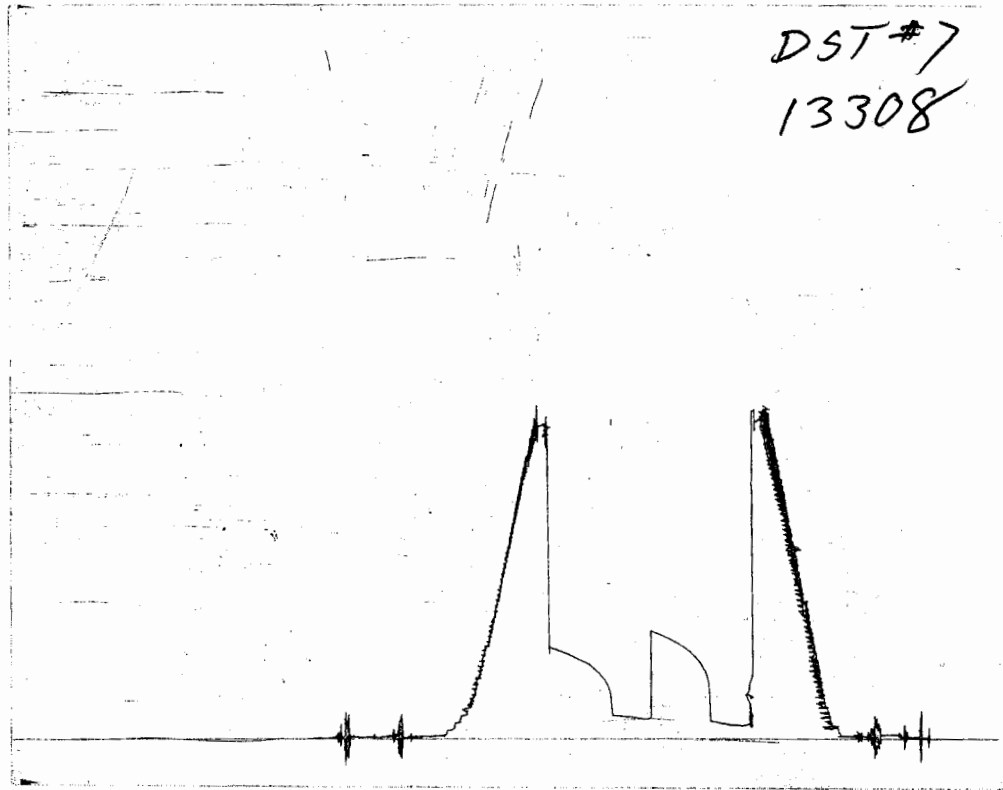


CHART PAGE

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

