

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

5-13s-17w Ellis

Nuss-Herald Unit #1

Start Date: 2004.11.09 @ 17:36:57

End Date: 2004.11.09 @ 23:11:56

Job Ticket #: 20888 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

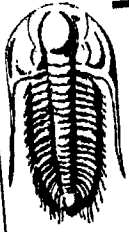
Nuss-Herald Unit #1

5-13s-17w Ellis

DST # 1

Toronto-LKC C

2004.11.09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc
 P O Box 352
 Russell Ks 67665
 ATTN: John O Farmer IV

Nuss-Herald Unit #1
5-13s-17w Ellis
 Job Ticket: 20888 **DST#: 1**
 Test Start: 2004.11.09 @ 17:36:57

GENERAL INFORMATION:

Formation: **Toronto-LKC C**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 19:30:56
 Time Test Ended: 23:11:56
 Interval: **3304.00 ft (KB) To 3395.00 ft (KB) (TVD)**
 Total Depth: **3395.00 ft (KB) (TVD)**
 Hole Diameter: **7.85 inches** Hole Condition: Fair

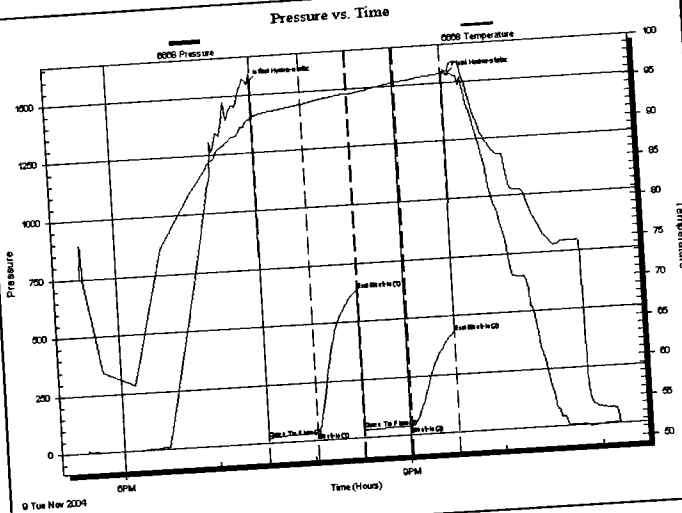
Test Type: **Conventional Bottom Hole**
 Tester: **Ray Schwager**
 Unit No: **28**
 Reference Elevations: **2073.00 ft (KB)**
2065.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 6668 Inside
 Press@RunDepth: **38.92 psig @ 3309.01 ft (KB)**
 Start Date: **2004.11.09** End Date:
 Start Time: **17:36:57** End Time:

Capacity: **7000.00 psig**
 Last Calib.: **2004.11.09**
 Time On Btm: **2004.11.09 @ 19:28:56**
 Time Off Btm: **2004.11.09 @ 21:34:26**

TEST COMMENT: FFP-wk surface bl thru-out
 FFP-no bl
 Times 30-30-30-30

PRESSURE SUMMARY



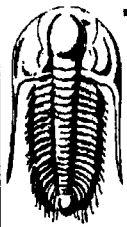
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.38	92.07	Initial Hydro-static
2	18.21	92.39	Open To Flow (1)
33	33.98	93.56	Shut-In(1)
62	633.90	94.59	End Shut-In(1)
63	32.86	94.52	Open To Flow (2)
93	38.92	95.56	Shut-In(2)
122	428.80	96.33	End Shut-In(2)
126	1533.04	96.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	mud	0.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20888

DST#: 1

ATTN: John O Farmer IV

Test Start: 2004.11.09 @ 17:36:57

Tool Information

Drill Pipe:	Length: 3264.00 ft	Diameter: 3.80 inches	Volume: 45.79 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3304.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.02 ft			
Tool Length:	112.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

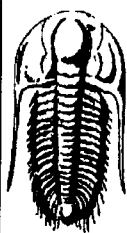
Tool Comments:

Tool Description

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

Change Over Sub	1.00			3284.00	
Shut In Tool	5.00			3289.00	
Hydraulic tool	5.00			3294.00	
Packer	5.00			3299.00	21.00 Bottom Of Top Packer
Packer	5.00			3304.00	
Stubb	1.00			3305.00	
Perforations	4.00			3309.00	
Recorder	0.01	6668	Inside	3309.01	
Blank Spacing	63.00			3372.01	
Recorder	0.01	13534	Outside	3372.02	
Perforations	20.00			3392.02	
Bullnose	3.00			3395.02	91.02 Bottom Packers & Anchor

Total Tool Length: 112.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20888

DST#: 1

ATTN: John O Farmer IV

Test Start: 2004.11.09 @ 17:36:57

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.34 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	mud	0.218

Total Length: 35.00 ft Total Volume: 0.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

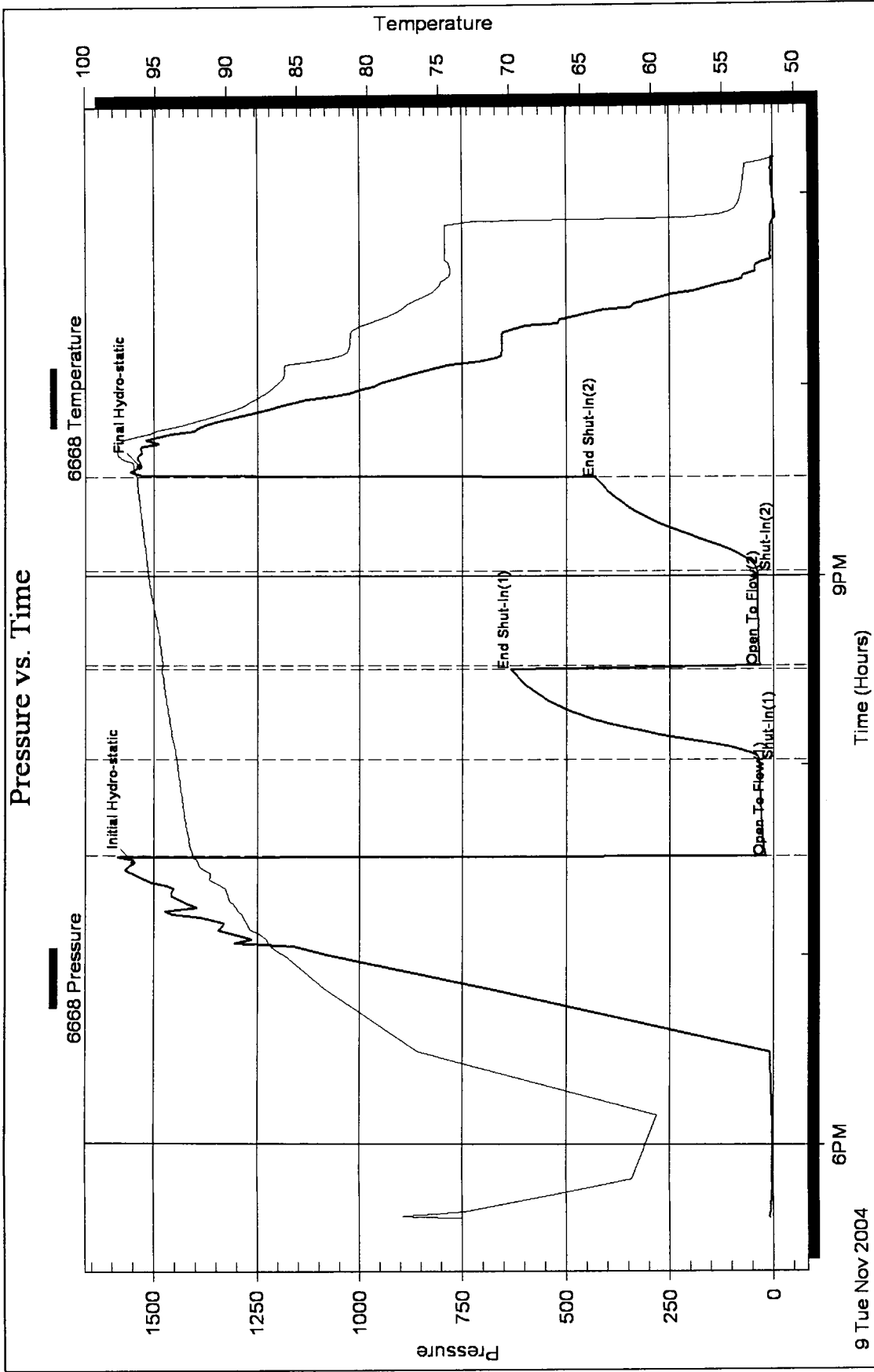
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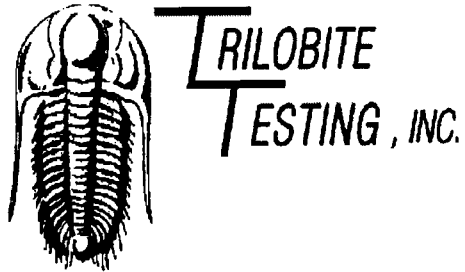
Inside

John O Farmer Inc

5-13s-17w Ellis

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

5-13s-17w Ellis

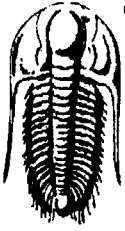
Nuss-Herald Unit #1

Start Date: 2004.11.10 @ 05:15:32

End Date: 2004.11.10 @ 11:29:01

Job Ticket #: 20889 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

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

ATTN: John O Farmer IV

Job Ticket: 20889 **DST#: 2**
Test Start: 2004.11.10 @ 05:15:32

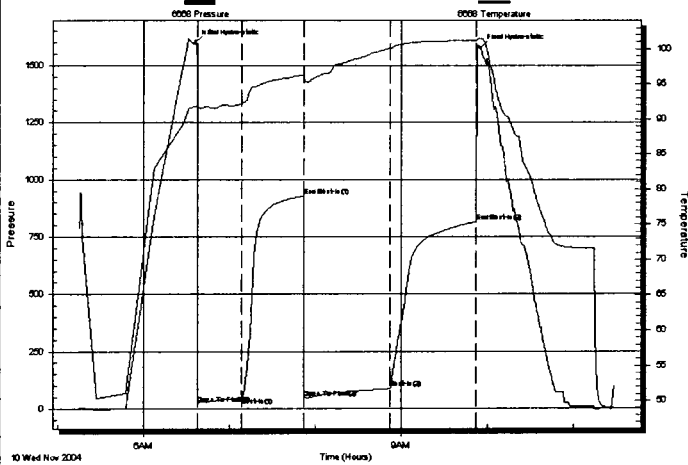
GENERAL INFORMATION:

Formation: **LKC D-F**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 06:38:01
 Time Test Ended: 11:29:01
 Interval: **3388.00 ft (KB) To 3439.00 ft (KB) (TVD)**
 Total Depth: **3439.00 ft (KB) (TVD)**
 Hole Diameter: **7.85 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Ray Schwager**
 Unit No: **28**
 Reference Elevations: **2073.00 ft (KB)**
2065.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 6668 **Inside**
 Press@RunDepth: **86.72 psig @ 3390.01 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2004.11.10** End Date: **2004.11.10** Last Calib.: **2004.11.10**
 Start Time: **05:15:32** End Time: **11:29:01** Time On Btm: **2004.11.10 @ 06:35:31**
 Time Off Btm: **2004.11.10 @ 09:55:01**

TEST COMMENT: FFP-wk to strg in 15 min, ISIP-1/4" bl bk
 FFP-wk to strg in 11 min, FSIP-surface bl
 Times 30-45-60-60

Pressure vs. Time



PRESSURE SUMMARY

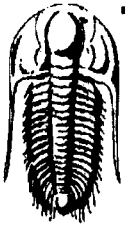
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1594.90	91.73	Initial Hydro-static
3	20.75	91.70	Open To Flow (1)
34	50.61	92.21	Shut-In(1)
77	928.21	96.26	End Shut-In(1)
77	48.20	95.65	Open To Flow (2)
137	86.72	100.04	Shut-In(2)
197	814.29	101.19	End Shut-In(2)
200	1575.93	101.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MGO 25%gas 70%oil 5%mud	0.60
92.00	MGO 35%gas 55%oil 10%mud	1.29
0.00	700 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20889

DST#: 2

ATTN: John O Farmer IV

Test Start: 2004.11.10 @ 05:15:32

Tool Information

Drill Pipe:	Length: 3357.00 ft	Diameter: 3.80 inches	Volume: 47.09 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3388.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.02 ft			
Tool Length:	72.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3368.00	
Shut In Tool	5.00			3373.00	
Hydraulic tool	5.00			3378.00	
Packer	5.00			3383.00	21.00 Bottom Of Top Packer
Packer	5.00			3388.00	
Stubb	1.00			3389.00	
Perforations	1.00			3390.00	
Recorder	0.01	6668	Inside	3390.01	
Blank Spacing	32.00			3422.01	
Recorder	0.01	13534	Outside	3422.02	
Perforations	14.00			3436.02	
Bullnose	3.00			3439.02	51.02 Bottom Packers & Anchor

Total Tool Length: 72.02



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20889

DST#: 2

ATTN: John O Farmer IV

Test Start: 2004.11.10 @ 05:15:32

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.32 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MGO 25%gas 70%oil 5%mud	0.596
92.00	MGO 35%gas 55%oil 10%mud	1.291
0.00	700 GP	0.000

Total Length: 154.00 ft Total Volume: 1.887 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

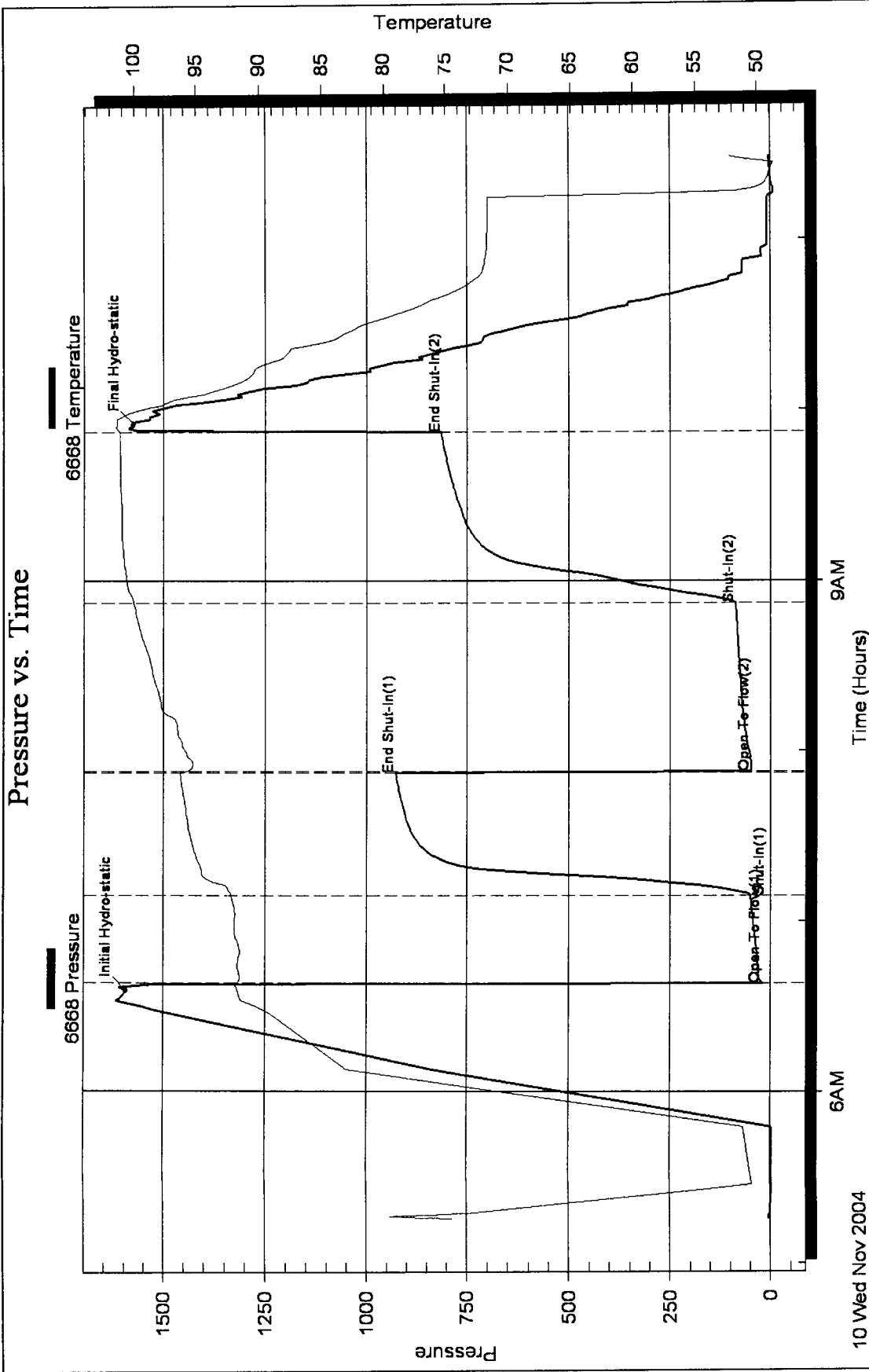
Serial #: 6668

Inside

John O Farmer Inc

5-13s-17w Ellis

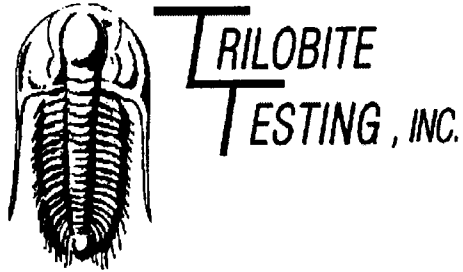
DST Test Number: 2



10 Wed Nov 2004

6AM

9AM



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

5-13s-17w Ellis

Nuss-Herald Unit #1

Start Date: 2004.11.10 @ 16:41:57

End Date: 2004.11.10 @ 22:00:26

Job Ticket #: 20890 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

Nuss-Herald Unit #1

5-13s-17w Ellis

DST # 3

LKC "G"

2004.11.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20890

DST#: 3

ATTN: John O Farmer IV

Test Start: 2004.11.10 @ 16:41:57

GENERAL INFORMATION:

Formation: **LKC "G"**

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

Time Tool Opened: 18:23:56

Time Test Ended: 22:00:26

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3439.00 ft (KB) To 3456.00 ft (KB) (TVD)**

Reference Elevations: **2073.00 ft (KB)**

Total Depth: **3456.00 ft (KB) (TVD)**

2065.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

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

Serial #: 6668

Inside

Press@RunDepth: **20.57 psig @ 3440.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.11.10**

End Date:

2004.11.10

Last Calib.: **2004.11.10**

Start Time: **16:41:57**

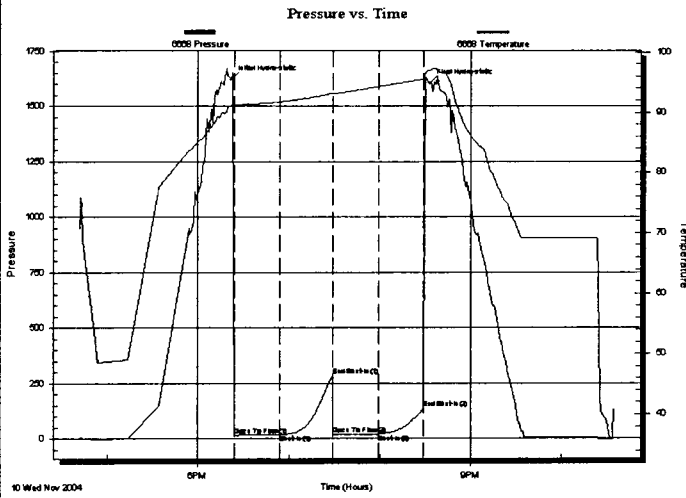
End Time:

22:34:26

Time On Btm: **2004.11.10 @ 18:21:56**

Time Off Btm: **2004.11.10 @ 20:32:56**

TEST COMMENT: **FP-w k surface bl died in 9 min**
FFP-no bl
Times 30-30-30-30



PRESSURE SUMMARY

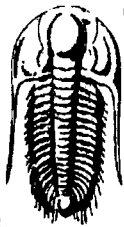
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.61	91.09	Initial Hydro-static
2	13.53	91.14	Open To Flow (1)
32	18.51	91.72	Shut-in(1)
67	285.28	93.11	End Shut-In(1)
67	17.81	93.03	Open To Flow (2)
97	20.57	94.28	Shut-in(2)
127	134.64	95.52	End Shut-In(2)
131	1604.13	97.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud w/show of oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20890

DST#: 3

ATTN: John O Farmer IV

Test Start: 2004.11.10 @ 16:41:57

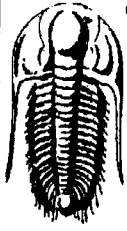
Tool Information

Drill Pipe:	Length: 3418.00 ft	Diameter: 3.80 inches	Volume: 47.95 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3439.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.02 ft			
Tool Length:	38.02 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			3419.00	
Shut In Tool	5.00			3424.00	
Hydraulic tool	5.00			3429.00	
Packer	5.00			3434.00	21.00 Bottom Of Top Packer
Packer	5.00			3439.00	
Stubb	1.00			3440.00	
Recorder	0.01	6668	Inside	3440.01	
Perforations	13.00			3453.01	
Recorder	0.01	13534	Outside	3453.02	
Bullnose	3.00			3456.02	17.02 Bottom Packers & Anchor
Total Tool Length:	38.02				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20890

DST#: 3

ATTN: John O Farmer IV

Test Start: 2004.11.10 @ 16:41:57

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud w/show of oil	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

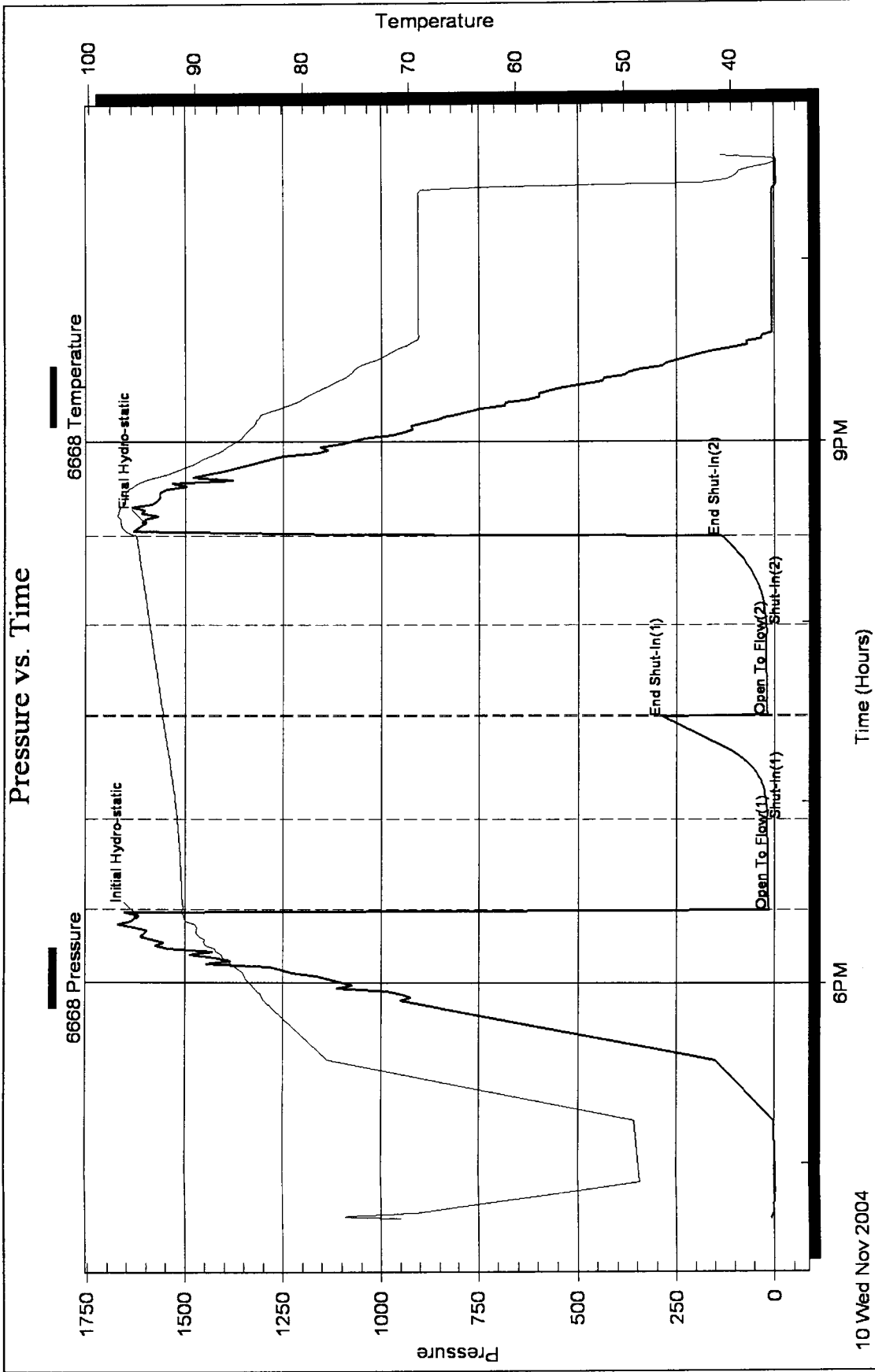
Inside

John O Farmer Inc

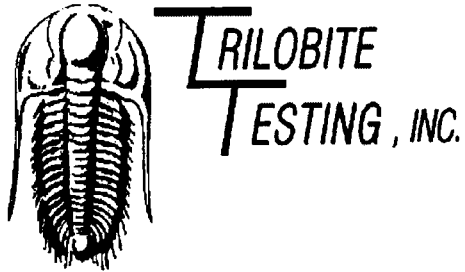
5-13s-17w Ellis

DST Test Number: 3

Pressure vs. Time



10 Wed Nov 2004



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

5-13s-17w Ellis

Nuss-Herald Unit #1

Start Date: 2004.11.11 @ 06:25:39

End Date: 2004.11.11 @ 12:18:38

Job Ticket #: 20891 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

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20891

DST#: 4

ATTN: John O Farmer IV

Test Start: 2004.11.11 @ 06:25:39

GENERAL INFORMATION:

Formation: **LKC H-J**

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

Time Tool Opened: 08:07:08

Time Test Ended: 12:18:38

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3475.00 ft (KB) To 3550.00 ft (KB) (TVD)**

Reference Elevations: **2073.00 ft (KB)**

Total Depth: **3550.00 ft (KB) (TVD)**

2065.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

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

Serial #: 6668 Outside

Press@RunDepth: **36.28 psig @ 3484.02 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.11.11**

End Date:

2004.11.11

Last Calib.: **2004.11.11**

Start Time: **06:25:39**

End Time:

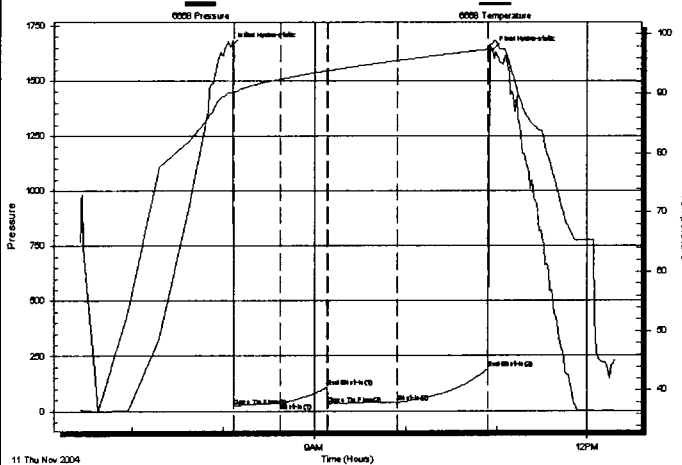
12:18:38

Time On Btm: **2004.11.11 @ 08:05:08**

Time Off Btm: **2004.11.11 @ 10:57:08**

TEST COMMENT: FFP-w k bl thru-out 1/4" to surface bl
FFP-w k bl thru-out 1" bl
Times 30-30-45-60

Pressure vs. Time



PRESSURE SUMMARY

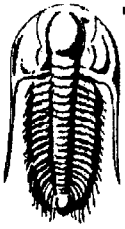
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.82	90.20	Initial Hydro-static
2	22.26	90.16	Open To Flow (1)
33	35.77	92.42	Shut-In(1)
63	106.84	93.83	End Shut-In(1)
64	29.54	93.83	Open To Flow (2)
109	36.28	95.56	Shut-In(2)
169	190.30	97.44	End Shut-In(2)
172	1638.15	98.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	O&GCM 5%gas 15%oil 80%mud	0.22
0.00	60 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20891

DST#: 4

ATTN: John O Farmer IV

Test Start: 2004.11.11 @ 06:25:39

Tool Information

Drill Pipe:	Length: 3450.00 ft	Diameter: 3.80 inches	Volume: 48.39 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3475.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.02 ft			
Tool Length:	96.02 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			3455.00	
Shut In Tool	5.00			3460.00	
Hydraulic tool	5.00			3465.00	
Packer	5.00			3470.00	21.00 Bottom Of Top Packer
Packer	5.00			3475.00	
Stubb	1.00			3476.00	
Perforations	4.00			3480.00	
Recorder	0.01	13534	Inside	3480.01	
Perforations	4.00			3484.01	
Recorder	0.01	6668	Outside	3484.02	
Blank Spacing	63.00			3547.02	
Blank Spacing	3.00			3550.02	75.02 Bottom Packers & Anchor

Total Tool Length: 96.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20891

DST#: 4

ATTN: John O Farmer IV

Test Start: 2004.11.11 @ 06:25:39

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	O&GCM 5%gas 15%oil 80%mud	0.218
0.00	60 GIP	0.000

Total Length: 35.00 ft Total Volume: 0.218 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

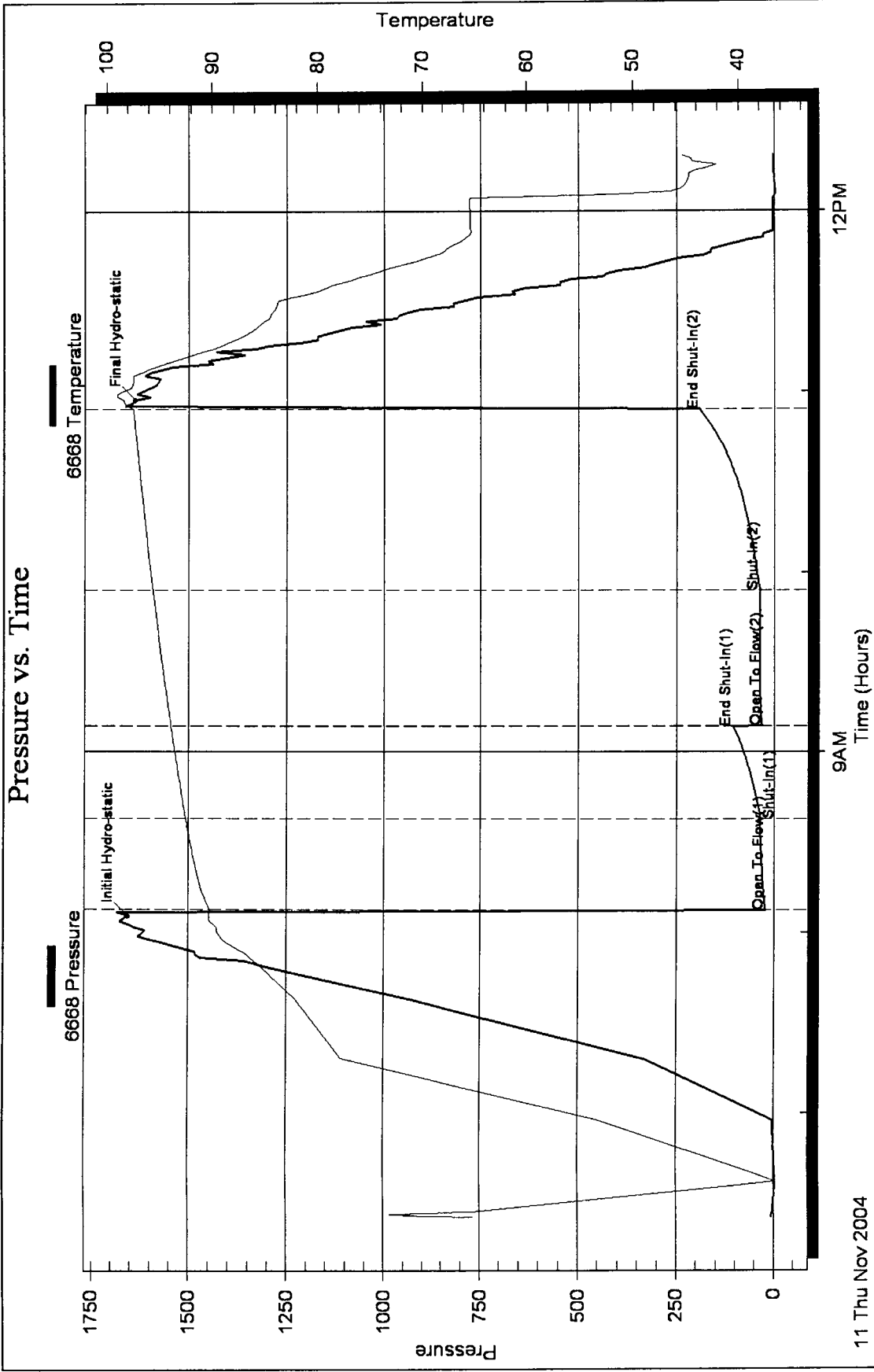
Serial #: 6668

Outside John O Farmer Inc

5-13s-17w Ellis

DST Test Number: 4

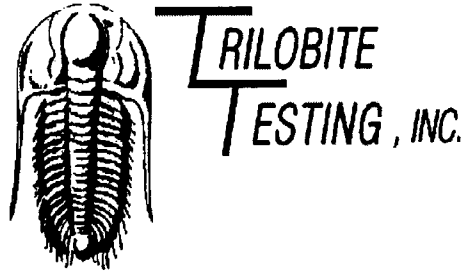
Pressure vs. Time



11 Thu Nov 2004

9AM

12PM



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

5-13s-17w Ellis

Nuss-Herald Unit #1

Start Date: 2004.11.11 @ 23:48:47

End Date: 2004.11.12 @ 07:05:16

Job Ticket #: 20892 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

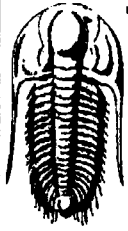
Nuss-Herald Unit #1

5-13s-17w Ellis

DST # 5

Arbuckle

2004.11.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20892

DST#: 5

ATTN: John O Farmer IV

Test Start: 2004.11.11 @ 23:48:47

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 01:54:46

Time Test Ended: 07:05:16

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3577.00 ft (KB) To 3633.00 ft (KB) (TVD)**

Reference Elevations: **2073.00 ft (KB)**

Total Depth: **3633.00 ft (KB) (TVD)**

2065.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

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

Serial #: 6668 Inside

Press@RunDepth: **986.13 psig @ 3582.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.11.11**

End Date:

2004.11.12

Last Calib.: **2004.11.12**

Start Time: **23:48:47**

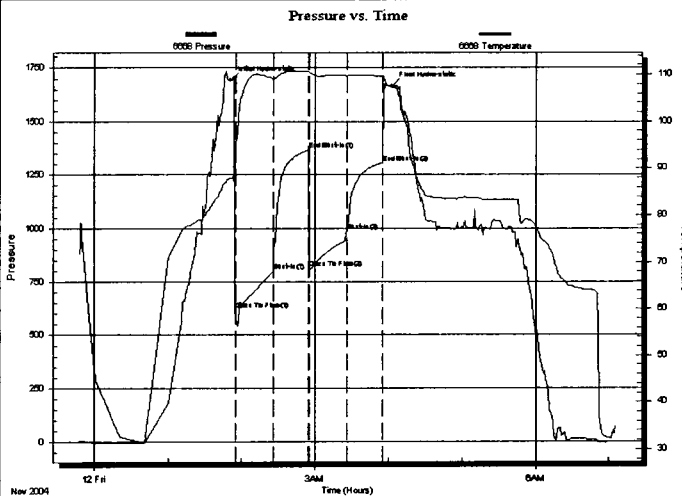
End Time:

07:05:16

Time On Btm: **2004.11.12 @ 01:51:16**

Time Off Btm: **2004.11.12 @ 04:02:46**

TEST COMMENT: FFP-strg bl
FFP-strg bl
Times 30-30-30-30
no bl on shut-in



PRESSURE SUMMARY

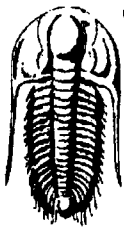
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.30	87.72	Initial Hydro-static
4	617.55	93.43	Open To Flow (1)
35	799.08	109.04	Shut-In(1)
64	1367.69	110.55	End Shut-In(1)
64	811.77	110.40	Open To Flow (2)
95	986.13	109.72	Shut-In(2)
124	1307.32	109.63	End Shut-In(2)
132	1666.21	107.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2230.00	M&WCO 20%w ater5% mud10% gas65%o31.01	
0.00	120'GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20892

DST#: 5

ATTN: John O Farmer IV

Test Start: 2004.11.11 @ 23:48:47

Tool Information

Drill Pipe:	Length: 3546.00 ft	Diameter: 3.80 inches	Volume: 49.74 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3577.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.02 ft			
Tool Length:	77.02 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			3557.00	
Shut In Tool	5.00			3562.00	
Hydraulic tool	5.00			3567.00	
Packer	5.00			3572.00	21.00 Bottom Of Top Packer
Packer	5.00			3577.00	
Stubb	1.00			3578.00	
Perforations	4.00			3582.00	
Recorder	0.01	6668	Inside	3582.01	
Blank Spacing	33.00			3615.01	
Recorder	0.01	13534	Outside	3615.02	
Perforations	15.00			3630.02	
Bullnose	3.00			3633.02	56.02 Bottom Packers & Anchor

Total Tool Length: 77.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Nuss-Herald Unit #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis

Job Ticket: 20892

DST#: 5

ATTN: John O Farmer IV

Test Start: 2004.11.11 @ 23:48:47

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: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.97 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2230.00	M&WCO 20%w ater5%mud10%gas65%oil	31.008
0.00	120'GIP	0.000

Total Length: 2230.00 ft Total Volume: 31.008 bbl

Num Fluid Samples: 0

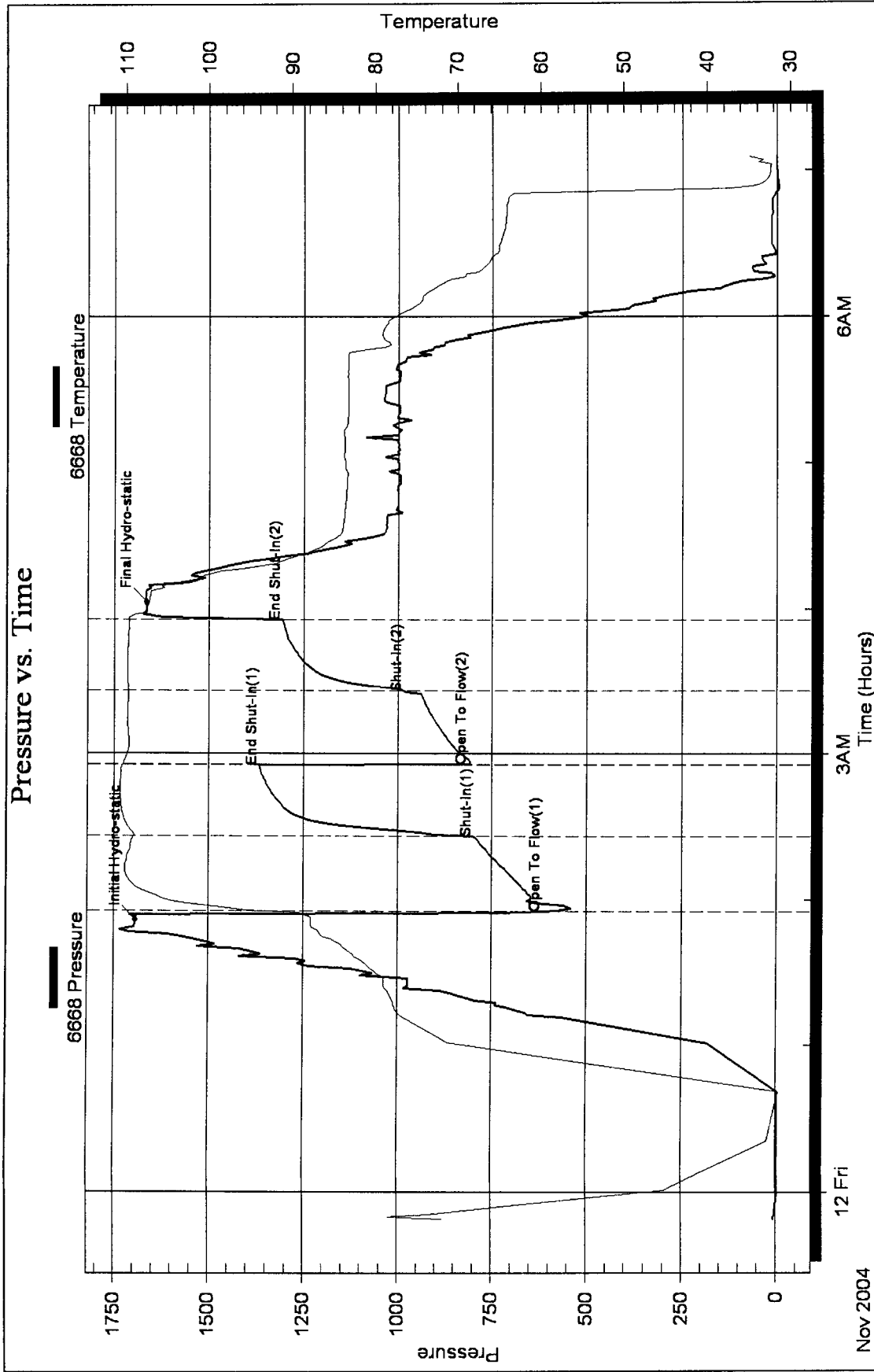
Num Gas Bombs: 0

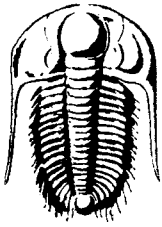
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 6#LCM





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
6953

No 20888

05/03

Test Ticket

Well Name & No. Nuss-Herald Unit #1 Test No. 1 Date 11-9-04
 Company John O. Farmer, Inc Zone Tested TORONTO LKC "C"
 Address P.O. Box 352 Russell, Ks 67665 Elevation 2073 KB 2065 GL
 Co. Rep / Geo. MATT DRICLING Cont. DISCOVERY rig 2 Est. Ft. of Pay - Por. - %
 Location: Sec. 5 Twp. 13^s Rge. 17^w Co. ELLIS State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3304 - 3395 Initial Str Wt./Lbs. 40000 Unseated Str Wt./Lbs. 40000
 Anchor Length 91 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 3299 Tool Weight 2200
 Bottom Packer Depth 3304 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3395 Wt. Pipe Run - Drill Collar Run 30
 Mud Wt. 8.8 LCM 1/4" Vis. 4B WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3264
 Blow Description IFP - WEAK SURFACE BLOW THRU-OUT
FFP - NO BLOW

Recovery - Total Feet 35 GIP - Ft. in DC 30 Ft. in DP 5
 Rec. 35 Feet of Mud %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 96 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW - @ _____ °F Chlorides - ppm Recovery - Chlorides 4500 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1548</u> PSI	<u>6668</u>	<u>900</u>
(B) First Initial Flow Pressure		<u>18</u> PSI	(depth) <u>3309</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		<u>33</u> PSI	Recorder No. <u>13534</u>	Jars _____
(D) Initial Shut-In Pressure		<u>633</u> PSI	(depth) <u>3372</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>32</u> PSI	Recorder No. <u>-</u>	Circ Sub _____
(F) Second Final Flow Pressure		<u>38</u> PSI	(depth) <u>-</u>	Sampler _____
(G) Final Shut-In Pressure		<u>428</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1533</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>30</u>	Mileage <input checked="" type="checkbox"/> <u>20 RT</u> <u>20</u>
			T-On Location <u>1645</u>	Sub Total: <u>920</u>
			T-Started <u>1736</u>	Std. By _____
			T-Open <u>1930</u>	Other _____
			T-Pulled <u>2130</u>	Total: _____
			T-Out <u>23</u>	

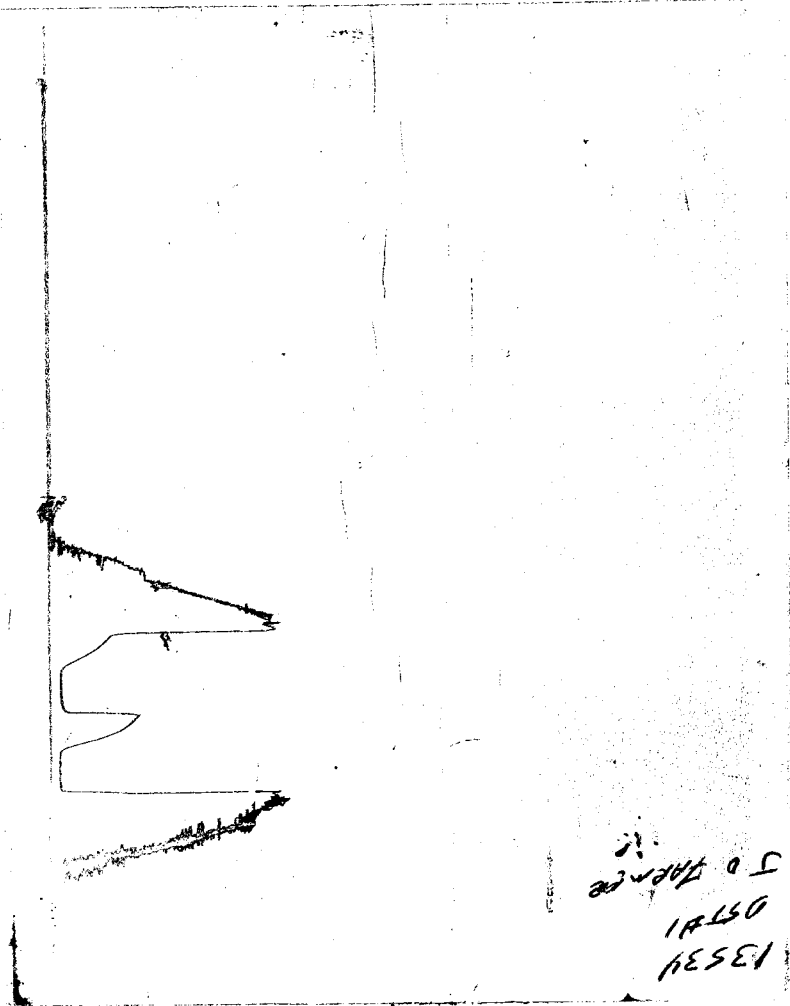
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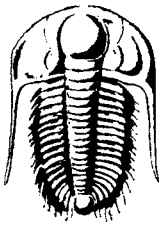
Approved By M.H. [Signature]

Our Representative RAY SCHWAGER THANK 404

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20889

05/03

Test Ticket

Well Name & No. Nuss-Herald Unit #1 Test No. 2 Date 11-10-04
 Company John O Farmer Inc Zone Tested LKC D-F
 Address P.O. Box 352 Russell, Ks 67665 Elevation 2073 KB 2065 GL
 Co. Rep / Geo. MATT DRIELING Cont. DISCOVERY RIG 2 Est. Ft. of Pay - Por. - %
 Location: Sec. 5 Twp. 13^s Rge. 17^w Co. ELLIS State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3388 - 3439 Initial Str Wt./Lbs. 40000 Unseated Str Wt./Lbs. 40000
 Anchor Length 51 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 3383 Tool Weight 2200
 Bottom Packer Depth 3388 Hole Size 7 7/8" _____ Rubber Size 6 3/4" _____
 Total Depth 3439 Wt. Pipe Run _____ Drill Collar Run 30
 Mud Wt. 8.8 LCM 1/4[#] Vis. 48 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3357
 Blow Description IFP - WEAK TO STRONG IN 15 MIN, ISIP - 1/4" BLOW BACK
FFP - WEAK TO STRONG IN 11 MIN, FSIP - SURFACE BLOW

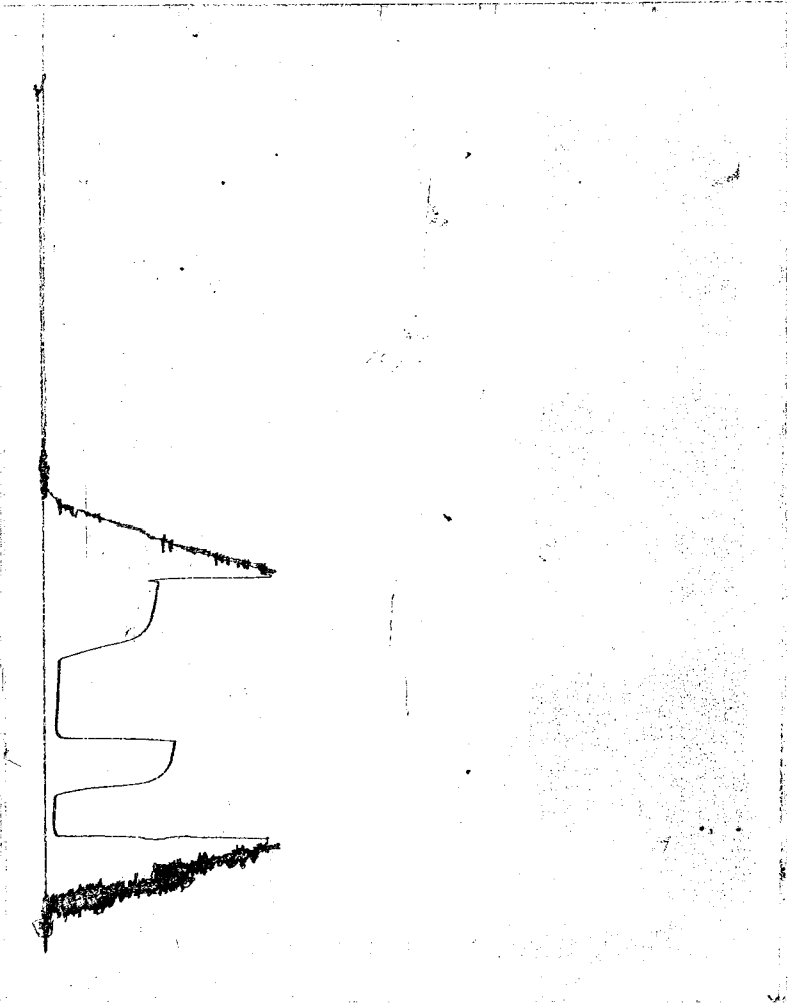
Recovery - Total Feet 154 GIP 700 Ft. in DC 30 Ft. in DP 124
 Rec. 62 Feet of M60 25 %gas 70 %oil %water 5 %mud
 Rec. 92 Feet of M60 35 %gas 55 %oil %water 10 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 101 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4500 ppm System

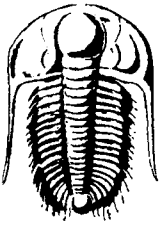
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1594</u> PSI	<u>6668</u>	<input checked="" type="checkbox"/> <u>900</u>
(B) First Initial Flow Pressure		<u>20</u> PSI	(depth) <u>3390</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		<u>50</u> PSI	Recorder No. <u>13534</u>	Jars _____
(D) Initial Shut-In Pressure		<u>928</u> PSI	(depth) <u>3422</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>48</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>86</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>814</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1575</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____

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Approved By Matt Drieling T-Started 0515 Std. By _____
 Our Representative RAY SCHWAGER THANK T-Open 0635 Other _____
404 T-Pulled 0950 Total: _____
 T-Out 1129

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20890

05/03

Test Ticket

Well Name & No. Nuss-Herald Unit #1 Test No. 3 Date 11-10-04
 Company John O Farmer Inc Zone Tested LKC "G"
 Address P.O. Box 352 Russell, Ko 67665 Elevation 2073 KB 2065 GL
 Co. Rep / Geo. MATT DRILING Cont. Discovery rig 2 Est. Ft. of Pay — Por. — %
 Location: Sec. 5 Twp. 13^s Rge. 17^w Co. ELLIS State Ks
 No. of Copies Reg Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 3439-3456 Initial Str Wt./Lbs. 40000 Unseated Str Wt./Lbs. 40000
 Anchor Length 17 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 3434 Tool Weight 2200
 Bottom Packer Depth 3439 Hole Size 7 7/8" — Rubber Size 6 3/4" —
 Total Depth 3456 Wt. Pipe Run — Drill Collar Run 30
 Mud Wt. 9 LCM 1/4" Vis. 52 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3418
 Blow Description I FP - WEAK SURFACE BLOW died in 9 min
FFP - NO BLOW

Recovery - Total Feet 2 GIP — Ft. in DC 2 Ft. in DP —
 Rec. 2 Feet of Mud %gas — %oil — %water — %mud —
 Rec. — Feet of w/show of 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 95 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 4000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		1822 PSI	6608	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure		13 PSI	3440	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		18 PSI	13534	Jars <u>—</u>
(D) Initial Shut-In Pressure		285 PSI	3453	Safety Jt. <u>—</u>
(E) Second Initial Flow Pressure		17 PSI		Circ Sub <u>—</u>
(F) Second Final Flow Pressure		20 PSI		Sampler <u>—</u>
(G) Final Shut-In Pressure		134 PSI	Initial Opening 30	Straddle <u>—</u>
(Q) Final Hydrostatic Mud		1604 PSI	Initial Shut-In 30	Ext. Packer <u>—</u>
			Final Flow 30	Shale Packer <u>—</u>
			Final Shut-In 30	Mileage <u>20 RT</u>
			T-On Location 1630	Sub Total: <u>920</u>
			T-Started 1641	Std. By <u>—</u>
			T-Open 1825	Other <u>—</u>
			T-Pulled 2025	Total: <u>—</u>
			T-Out 2200	

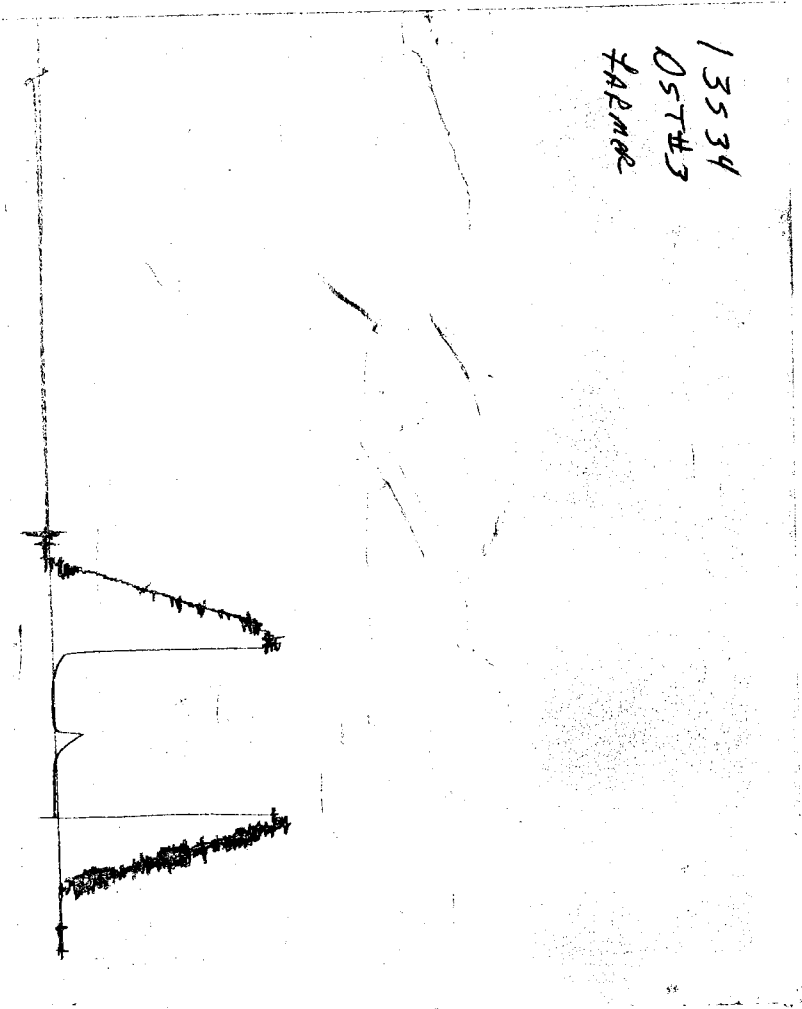
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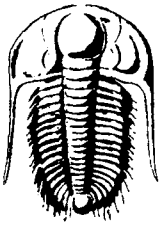
Approved By M. # [Signature]
 Our Representative RAY SCHWAGER THANK 1104

CHART PAGE

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

13534
OSTHJ
FARMOR





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20891

05/03

Test Ticket

Well Name & No. Nuss-Herald Unit #1 Test No. 4 Date 11-11-04
 Company John O Farmer Inc Zone Tested LKC H-J
 Address P O Box 352 Russell Ks 67665 Elevation 2073 KB 2065 GL
 Co. Rep / Geo. MATT DREGLING Cont. Discovery rig 2 Est. Ft. of Pay - Por. - %
 Location: Sec. 5 Twp. 13^s Rge. 17^w Co. ELLIS State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3475-3550 Initial Str Wt./Lbs. 42000 Unseated Str Wt./Lbs. 42000
 Anchor Length 75 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 3470 Tool Weight 2200
 Bottom Packer Depth 3475 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3550 Wt. Pipe Run - Drill Collar Run 30
 Mud Wt. 9 LCM 1/4th Vis. 52 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3450
 Blow Description IFP - WEAK Blow thru-out 1/4" TO SURFACE Blow
FFP - WEAK Blow thru-out 1" Blow

Recovery - Total Feet 35 GIP 60 Ft. in DC 30 Ft. in DP 5
 Rec. 35 Feet of 0-6CM 5 %gas 15 %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 97 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4000 ppm System

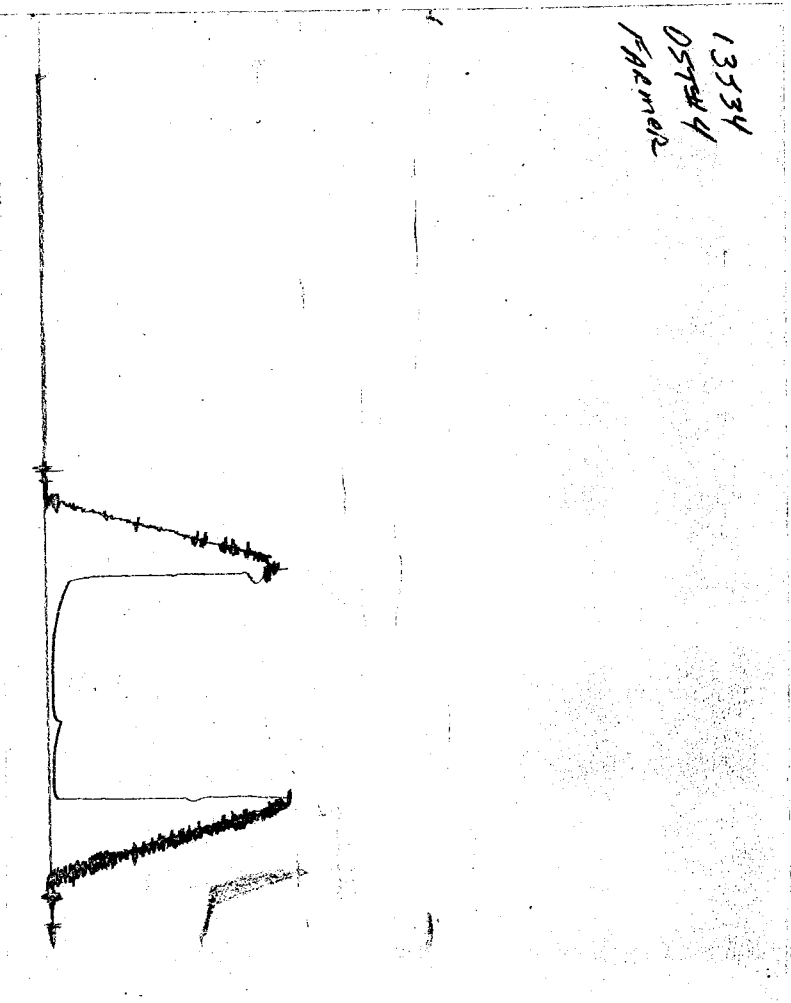
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1656	PSI	6668	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure	22	PSI	3484	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure	35	PSI	13534	Jars _____
(D) Initial Shut-In Pressure	106	PSI	3480	Safety Jt. _____
(E) Second Initial Flow Pressure	29	PSI	_____	Circ Sub _____
(F) Second Final Flow Pressure	36	PSI	_____	Sampler _____
(G) Final Shut-In Pressure	190	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	1638	PSI	Initial Shut-In <u>30</u>	Ext. Packer _____

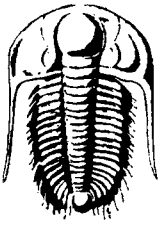
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 45 Shale Packer _____
 Final Shut-In 30 Mileage 20 RT
 T-On Location 0545 Sub Total: 920
 T-Started 0625 Std. By _____
 T-Open 0805 Other _____
 T-Pulled 1050 Total: _____
 T-Out 1210

Approved By _____
 Our Representative Ray Schwager THANK YOU

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20892

05/03

Test Ticket

Well Name & No. Nuss-Herald Unit #1 Test No. 5 Date 11-11-04
 Company John O Farmer Inc Zone Tested Arbuckle
 Address P.O. Box 352 Russell, Ks 67665 Elevation 2073 KB 2065 GL
 Co. Rep / Geo. MATT DRILLING Cont. Discovery rig 2 Est. Ft. of Pay - Por. - %
 Location: Sec. 5 Twp. 13^s Rge. 17^w Co. Ellis State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3577-3633 Initial Str Wt./Lbs. 40000 Unseated Str Wt./Lbs. 48000
 Anchor Length 56 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 3572 Tool Weight 2200
 Bottom Packer Depth 3577 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3633 Wt. Pipe Run - Drill Collar Run 30
 Mud Wt. 8.8 LCM 6 # Vis. 58 WL 10 Drill Pipe Size 4 1/2 XH Ft. Run 3546
 Blow Description IFP - STRONG BLOW thru-out
FFP - STRONG BLOW
NO BLOW ON SHUT-IN

Recovery - Total Feet 2230 GIP 120 Ft. in DC 30 Ft. in DP 2200
 Rec. 2230 Feet of GW-MCO 10 %gas 65 %oil 20 %water 5 %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 28 °API D @ 60 °F Corrected Gravity 28 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		1693 PSI	6668	✓ 900
(B) First Initial Flow Pressure		617 PSI	(depth) 3582	Elec. Rec. ✓
(C) First Final Flow Pressure		799 PSI	Recorder No. 13534	Jars _____
(D) Initial Shut-In Pressure		1367 PSI	(depth) 3615	Safety Jt. _____
(E) Second Initial Flow Pressure		811 PSI	Recorder No. -	Circ Sub ✓ 35
(F) Second Final Flow Pressure		986 PSI	(depth) -	Sampler _____
(G) Final Shut-In Pressure		1307 PSI	Initial Opening 30	Straddle _____
(Q) Final Hydrostatic Mud		1666 PSI	Initial Shut-In 30	Ext. Packer _____
			Final Flow 30	Shale Packer _____
			Final Shut-In 30	Mileage ✓ 20 RT 20

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Approved By Matt Drilling
 Our Representative Ray Schwager THANK

T-On Location	2315	Sub Total:	955
T-Started	2348	Std. By	_____
T-Open	0155	Other	_____
T-Pulled	0355	Total:	_____
T-Out	0705		

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

