

## DRILL STEM TEST REPORT

Prepared For: **Rains & Williamson Oil CO Inc**

220 W Douglas Ste 110  
Wichita KS 67202

ATTN: Juanita Green

**20 10S 21W Graham KS**

**Thomason-Maxfield # 2-20**

Start Date: 2007.03.09 @ 21:44:51

End Date: 2007.03.10 @ 04:27:51

Job Ticket #: 27541                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Rains & Williamson Oil CO Inc

220 W Douglas Ste 110  
Wichita KS 67202

ATTN: Juanita Green

**Thomason-Maxfield # 2-20**

**20 10S 21W Graham KS**

Job Ticket: 27541

**DST#: 1**

Test Start: 2007.03.09 @ 21:44:51

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:39:21

Time Test Ended: 04:27:51

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

**Interval: 3544.00 ft (KB) To 3612.00 ft (KB) (TVD)**

Reference Elevations: 2320.00 ft (KB)

Total Depth: 3612.00 ft (KB) (TVD)

2315.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6669**

**Inside**

Press@RunDepth: 60.46 psig @ 3547.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.03.09

End Date: 2007.03.10

Last Calib.: 2007.03.10

Start Time: 21:44:56

End Time: 04:27:50

Time On Btm: 2007.03.09 @ 23:38:51

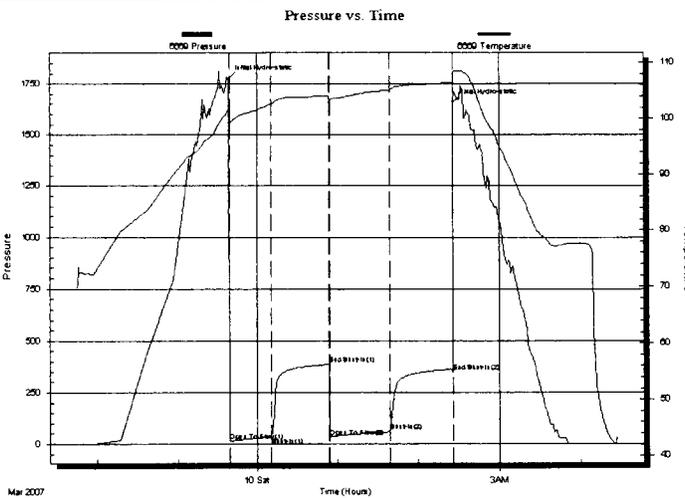
Time Off Btm: 2007.03.10 @ 02:25:51

TEST COMMENT: IF Weak 1/2" Blow

ISI Dead

FF Weak surface blow

FSI Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.02	101.70	Initial Hydro-static
1	13.74	99.18	Open To Flow (1)
32	33.74	102.55	Shut-In(1)
75	385.46	104.09	End Shut-In(1)
76	35.50	103.29	Open To Flow (2)
121	60.46	105.14	Shut-In(2)
167	348.93	106.41	End Shut-In(2)
167	1657.84	108.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	D mud few Oil spots	0.34

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Rains & Williamson Oil CO Inc

**Thomason-Maxfield # 2-20**

220 W Douglas Ste 110  
Wichita KS 67202

**20 10S 21W Graham KS**

Job Ticket: 27541

**DST#: 1**

ATTN: Juanita Green

Test Start: 2007.03.09 @ 21:44:51

### Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 2000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 47.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3544.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3522.00	
Shut In Tool	5.00			3527.00	
Hydraulic tool	5.00			3532.00	
Safety Joint	3.00			3535.00	
Packer	4.00			3539.00	23.00 Bottom Of Top Packer
Packer	5.00			3544.00	
Stubb	1.00			3545.00	
Perforations	1.00			3546.00	
Change Over Sub	1.00			3547.00	
Recorder	0.00	6669	Inside	3547.00	
Blank Spacing	31.00			3578.00	
Change Over Sub	1.00			3579.00	
Recorder	0.00	11084	Outside	3579.00	
Perforations	30.00			3609.00	
Bullnose	3.00			3612.00	68.00 Bottom Packers & Anchor

**Total Tool Length: 91.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Rains & Williamson Oil CO Inc

**Thomason-Maxfield # 2-20**

220 W Douglas Ste 110  
Wichita KS 67202

**20 10S 21W Graham KS**

Job Ticket: 27541

**DST#: 1**

ATTN: Juanita Green

Test Start: 2007.03.09 @ 21:44:51

## 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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	D mud few Oil spots	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6669

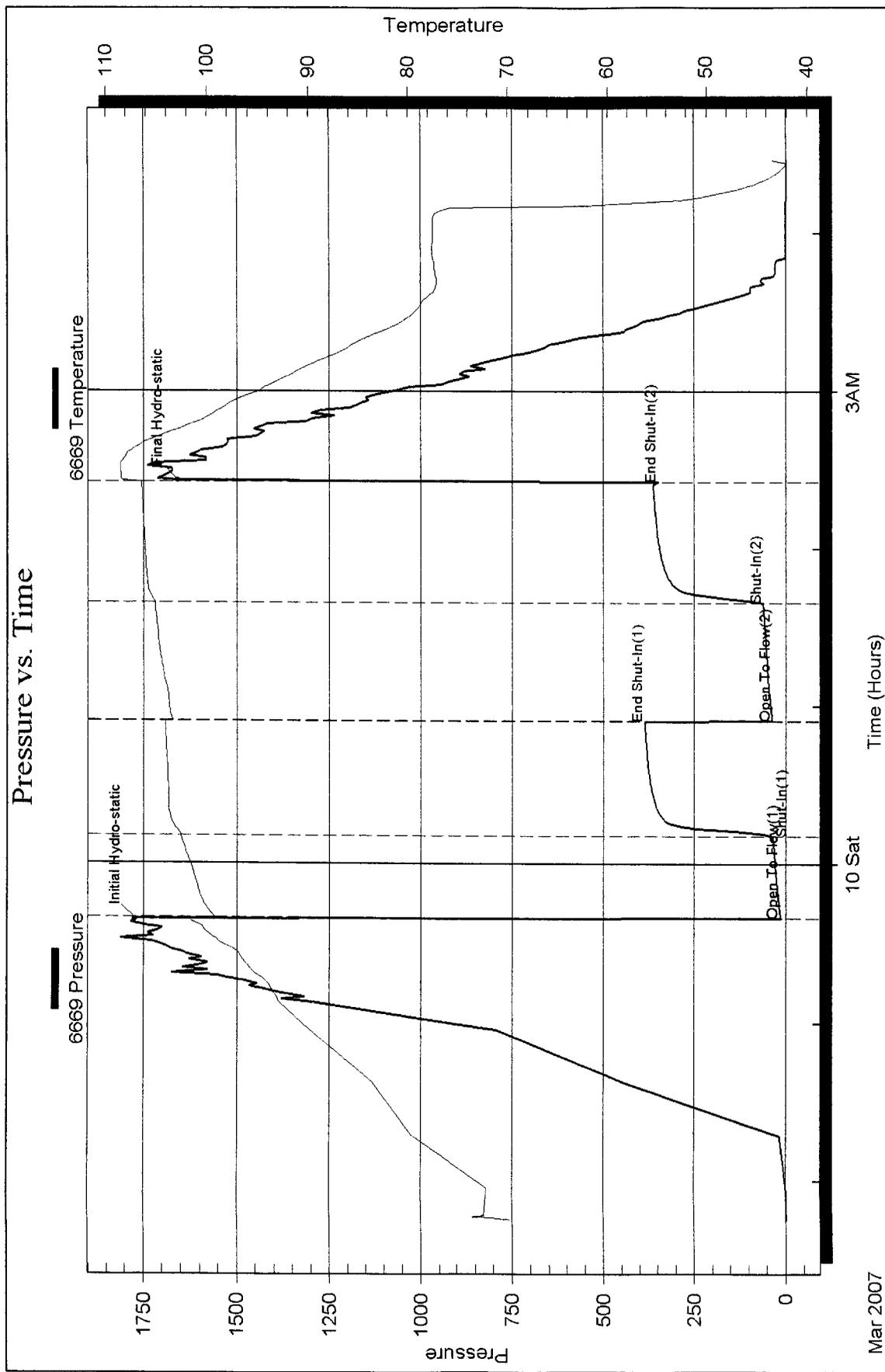
Inside

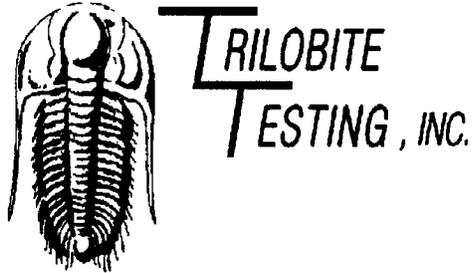
Rains & Williamson Oil CO Inc

20 10S 21W Graham KS

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Rains & Williamson Oil CO Inc**

220 W Douglas Ste 110  
Wichita KS 67202

ATTN: Juanita Green

**20 10S 21W Graham KS**

**Thomason-Maxfield # 2-20**

Start Date: 2007.03.10 @ 20:00:33

End Date: 2007.03.11 @ 02:45:03

Job Ticket #: 27542                      DST #: 2

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# DRILL STEM TEST REPORT

Rains & Williamson Oil CO Inc

220 W Douglas Ste 110  
Wichita KS 67202

ATTN: Juanita Green

**Thomason-Maxfield # 2-20**

**20 10S 21W Graham KS**

Job Ticket: 27542

**DST#: 2**

Test Start: 2007.03.10 @ 20:00:33

## GENERAL INFORMATION:

Formation: **L.Kc.-H,I,J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:33

Time Test Ended: 02:45:03

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

**Interval: 3710.00 ft (KB) To 3780.00 ft (KB) (TVD)**

Total Depth: 3780.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2320.00 ft (KB)

2315.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6669**

**Inside**

Press@RunDepth: 92.16 psig @ 3713.00 ft (KB)

Start Date: 2007.03.10

End Date: 2007.03.11

Start Time: 20:00:38

End Time: 02:45:02

Capacity: 7000.00 psig

Last Calib.: 2007.03.11

Time On Btm: 2007.03.10 @ 21:47:03

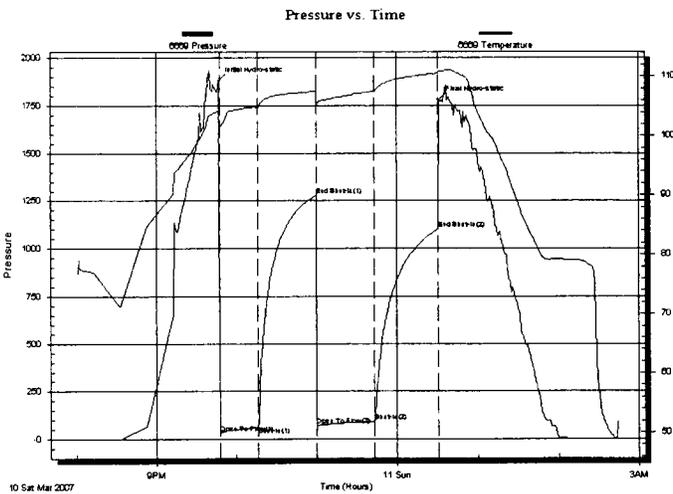
Time Off Btm: 2007.03.11 @ 00:31:33

**TEST COMMENT:** IF Weak built to 1" Decrease to surface

ISI Dead

FF Weak surface.

FSI Dead



## PRESSURE SUMMARY

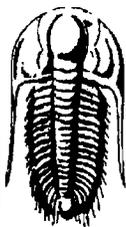
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.41	104.11	Initial Hydro-static
1	32.47	101.27	Open To Flow (1)
29	63.93	104.81	Shut-In(1)
73	1277.50	107.49	End Shut-In(1)
74	70.37	105.38	Open To Flow (2)
117	92.16	107.52	Shut-In(2)
164	1102.50	110.50	End Shut-In(2)
165	1778.71	110.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	D.Mud	0.61

## Gas Rates

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



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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Rains & Williamson Oil CO Inc

**Thomason-Maxfield # 2-20**

220 W Douglas Ste 110  
Wichita KS 67202

**20 10S 21W Graham KS**

Job Ticket: 27542

**DST#: 2**

ATTN: Juanita Green

Test Start: 2007.03.10 @ 20:00:33

### Tool Information

Drill Pipe:	Length: 3533.00 ft	Diameter: 3.80 inches	Volume: 49.56 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3710.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3688.00	
Shut In Tool	5.00			3693.00	
Hydraulic tool	5.00			3698.00	
Safety Joint	3.00			3701.00	
Packer	4.00			3705.00	23.00 Bottom Of Top Packer
Packer	5.00			3710.00	
Stubb	1.00			3711.00	
Perforations	1.00			3712.00	
Change Over Sub	1.00			3713.00	
Recorder	0.00	6669	Inside	3713.00	
Blank Spacing	33.00			3746.00	
Change Over Sub	1.00			3747.00	
Recorder	0.00	11084	Outside	3747.00	
Perforations	30.00			3777.00	
Bullnose	3.00			3780.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 93.00**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Rains & Williamson Oil CO Inc

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Wichita KS 67202

**20 10S 21W Graham KS**

Job Ticket: 27542

**DST#: 2**

ATTN: Juanita Green

Test Start: 2007.03.10 @ 20:00:33

**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: 8.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
125.00	D.Mud	0.615

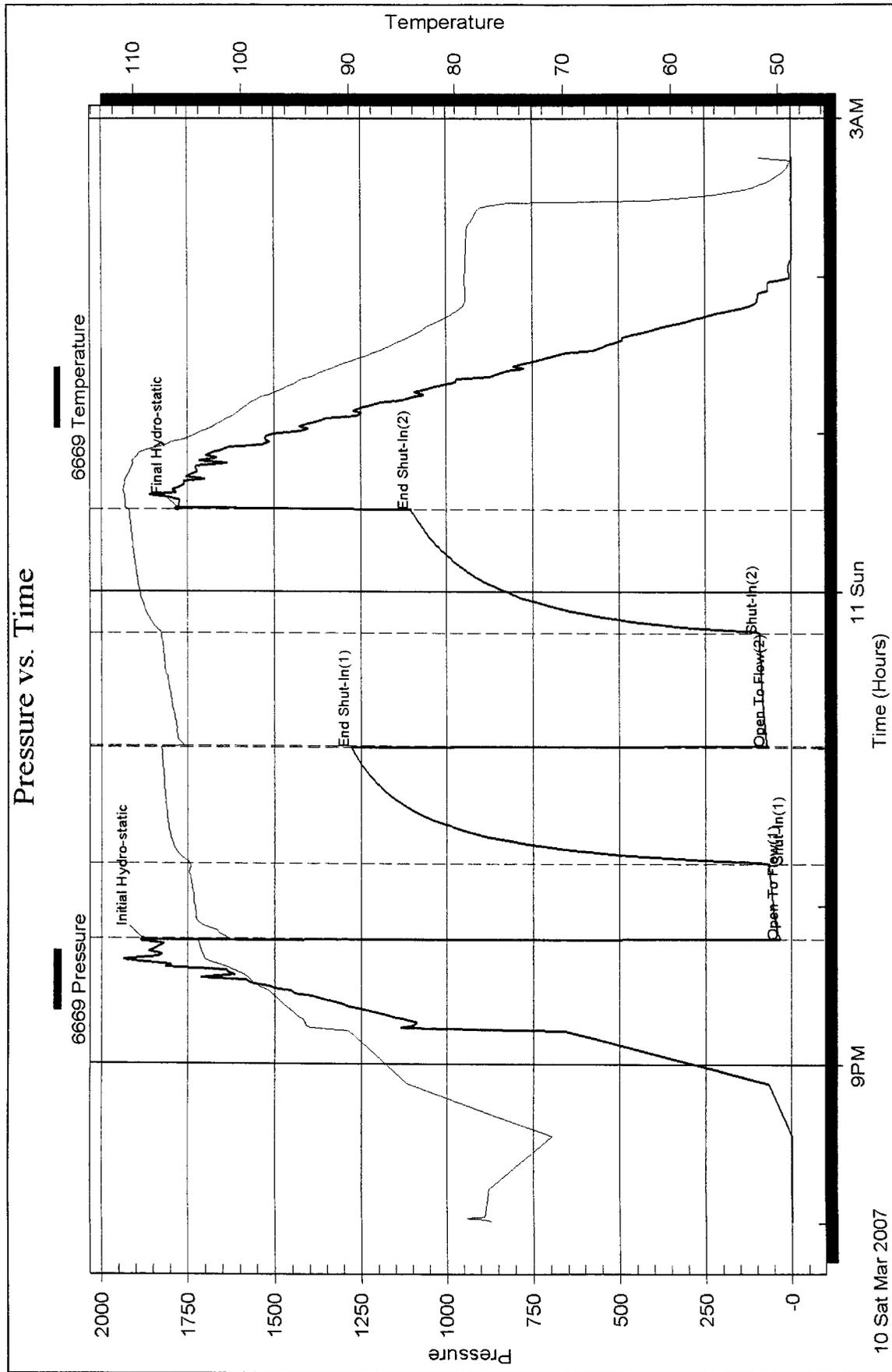
Total Length: 125.00 ft      Total Volume: 0.615 bbl

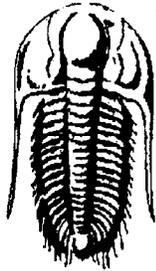
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





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## DRILL STEM TEST REPORT

Prepared For: **Rains & Williamson Oil CO Inc**

220 W Douglas Ste 110  
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ATTN: Juanita Green

**20 10S 21W Graham KS**

**Thomason-Maxfield # 2-20**

Start Date: 2007.03.11 @ 16:14:32

End Date: 2007.03.11 @ 22:08:02

Job Ticket #: 27543                      DST #: 3

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# DRILL STEM TEST REPORT

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220 W Douglas Ste 110  
Wichita KS 67202

ATTN: Juanita Green

**Thomason-Maxfield # 2-20**

**20 10S 21W Graham KS**

Job Ticket: 27543

DST#: 3

Test Start: 2007.03.11 @ 16:14:32

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:10:32

Time Test Ended: 22:08:02

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3785.00 ft (KB) To 3910.00 ft (KB) (TVD)**

Total Depth: 3910.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2320.00 ft (KB)

2315.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6669**

**Inside**

Press@RunDepth: 71.14 psig @ 3788.00 ft (KB)

Start Date: 2007.03.11

End Date: 2007.03.11

Start Time: 16:14:37

End Time: 22:08:01

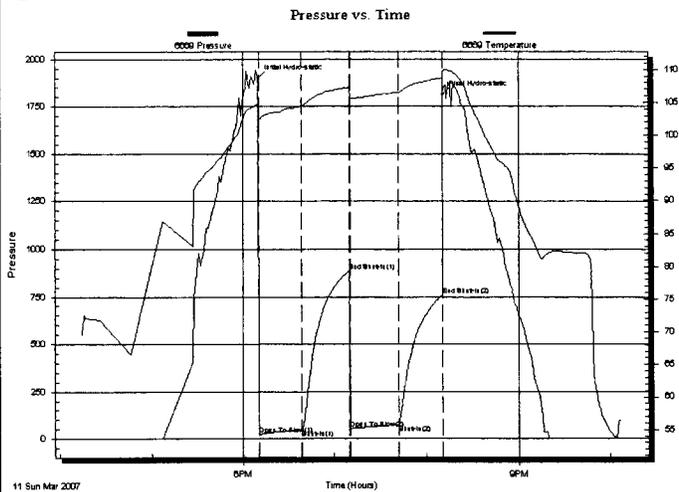
Capacity: 7000.00 psig

Last Calib.: 2007.03.11

Time On Btm: 2007.03.11 @ 18:10:02

Time Off Btm: 2007.03.11 @ 20:11:02

TEST COMMENT: IF Weak built 3"  
ISI Dead  
FF Weak built 1"  
FSI Dead



## PRESSURE SUMMARY

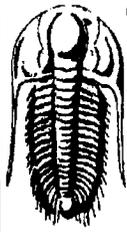
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.29	104.78	Initial Hydro-static
1	20.58	102.33	Open To Flow (1)
29	46.46	104.38	Shut-In(1)
60	883.10	107.22	End Shut-In(1)
60	50.82	105.52	Open To Flow (2)
92	71.14	106.45	Shut-In(2)
121	757.85	108.70	End Shut-In(2)
121	1812.32	109.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
121.00	OCM 30%O 70%M	0.60
1.00	Oil	0.00

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Rains & Williamson Oil CO Inc

**Thomason-Maxfield # 2-20**

220 W Douglas Ste 110  
Wichita KS 67202

**20 10S 21W Graham KS**

Job Ticket: 27543

**DST#: 3**

ATTN: Juanita Green

Test Start: 2007.03.11 @ 16:14:32

### Tool Information

Drill Pipe:	Length: 3597.00 ft	Diameter: 3.80 inches	Volume: 50.46 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3785.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	125.00 ft			
Tool Length:	148.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3763.00	
Shut In Tool	5.00			3768.00	
Hydraulic tool	5.00			3773.00	
Safety Joint	3.00			3776.00	
Packer	4.00			3780.00	23.00 Bottom Of Top Packer
Packer	5.00			3785.00	
Stubb	1.00			3786.00	
Perforations	1.00			3787.00	
Change Over Sub	1.00			3788.00	
Recorder	0.00	6669	Inside	3788.00	
Blank Spacing	93.00			3881.00	
Change Over Sub	1.00			3882.00	
Recorder	0.00	11084	Outside	3882.00	
Perforations	25.00			3907.00	
Bullnose	3.00			3910.00	125.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>148.00</b>			



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Rains & Williamson Oil CO Inc

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Wichita KS 67202

**20 10S 21W Graham KS**

Job Ticket: 27543

**DST#: 3**

ATTN: Juanita Green

Test Start: 2007.03.11 @ 16:14:32

**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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
121.00	OCM 30%O 70%M	0.595
1.00	Oil	0.005

Total Length: 122.00 ft

Total Volume: 0.600 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

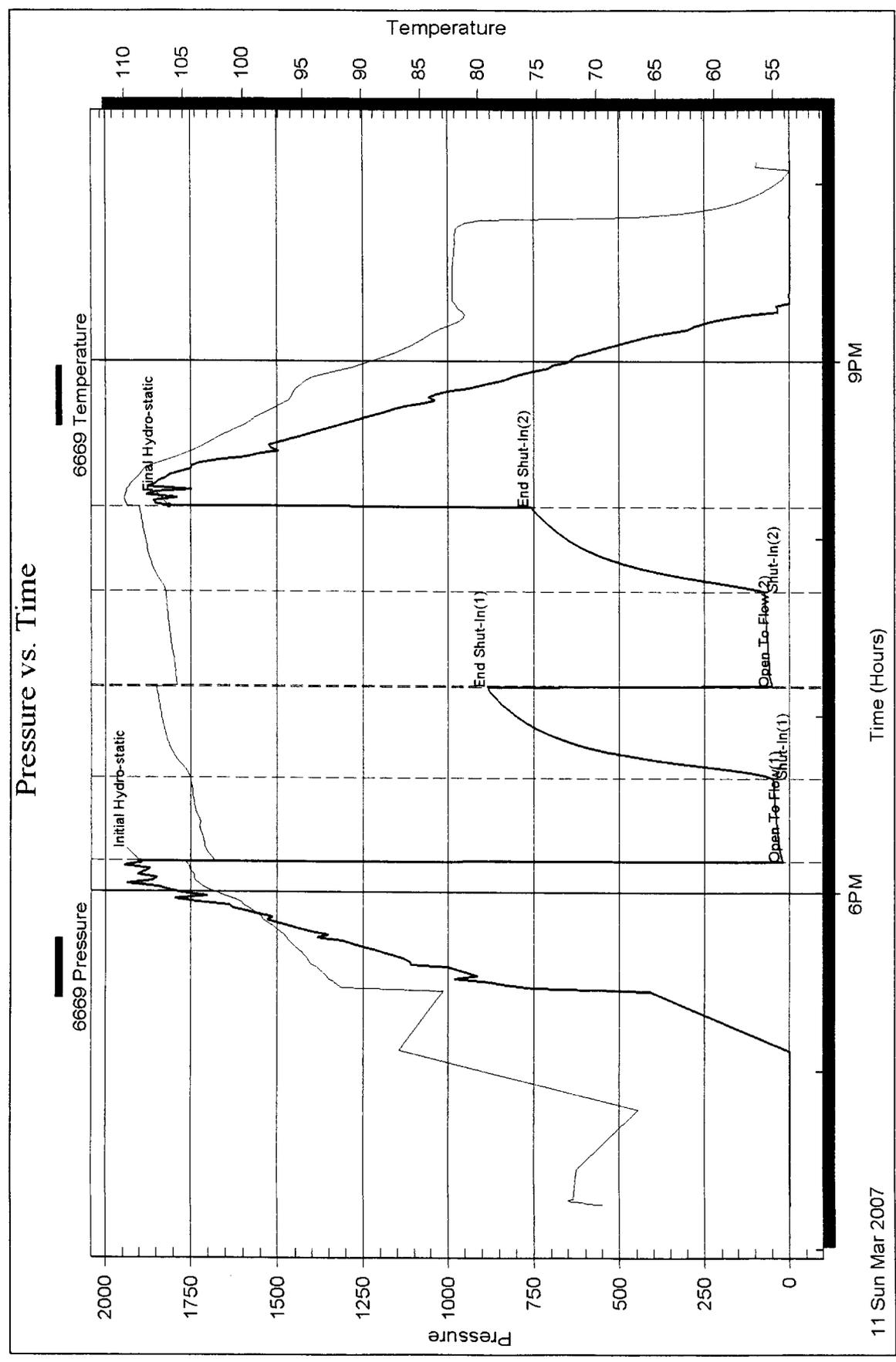
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

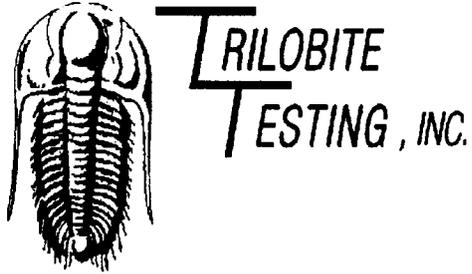


11 Sun Mar 2007

6PM

9PM

Time (Hours)



## DRILL STEM TEST REPORT

Prepared For: **Rains & Williamson Oil CO Inc**

220 W Douglas Ste 110  
Wichita KS 67202

ATTN: Juanita Green

**20 10S 21W Graham KS**

**Thomason-Maxfield # 2-20**

Start Date: 2007.03.12 @ 06:29:48

End Date: 2007.03.12 @ 13:13:18

Job Ticket #: 27544                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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# DRILL STEM TEST REPORT

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220 W Douglas Ste 110  
Wichita KS 67202

ATTN: Juanita Green

**Thomason-Maxfield # 2-20**

**20 10S 21W Graham KS**

Job Ticket: 27544

**DST#: 4**

Test Start: 2007.03.12 @ 06:29:48

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:55:48

Time Test Ended: 13:13:18

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3888.00 ft (KB) To 3940.00 ft (KB) (TVD)**

Total Depth: 3940.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2320.00 ft (KB)

2315.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6669**

**Inside**

Press@RunDepth: 108.00 psig @ 3891.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.03.12

End Date: 2007.03.12

Last Calib.: 2007.03.12

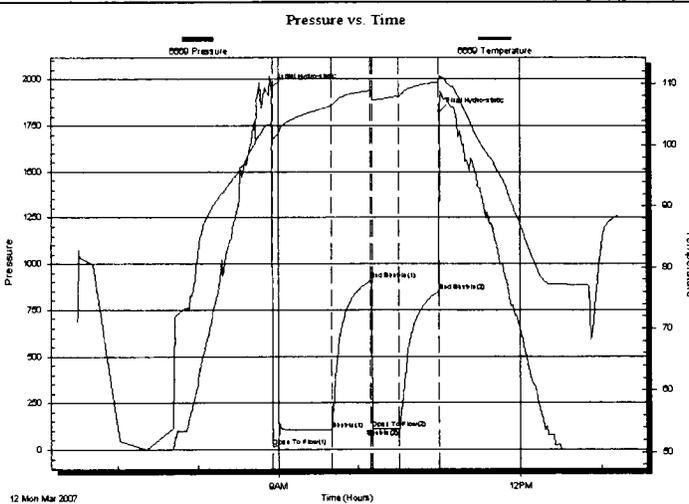
Start Time: 06:29:53

End Time: 13:13:17

Time On Btm: 2007.03.12 @ 08:55:18

Time Off Btm: 2007.03.12 @ 11:00:47

**TEST COMMENT:** IF Weak built to 1" in 8 min.- Lost 40' D.Mud bled blow off-built back to 1"  
ISI Dead  
FF Weak Surface blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.19	103.62	Initial Hydro-static
1	14.96	100.98	Open To Flow (1)
45	107.22	106.28	Shut-In (1)
74	910.00	108.83	End Shut-In (1)
75	112.00	107.25	Open To Flow (2)
95	108.00	107.91	Shut-In (2)
125	850.87	110.19	End Shut-In (2)
126	1824.79	111.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
206.00	OCM-10%Oil 90%Mud	1.20
4.00	Clean Oil	0.06

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Rains & Williamson Oil CO Inc

**Thomason-Maxfield # 2-20**

220 W Douglas Ste 110  
Wichita KS 67202

**20 10S 21W Graham KS**

Job Ticket: 27544

**DST#: 4**

ATTN: Juanita Green

Test Start: 2007.03.12 @ 06:29:48

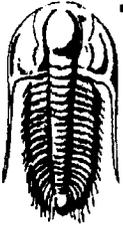
**Tool Information**

Drill Pipe:	Length: 3690.00 ft	Diameter: 3.80 inches	Volume: 51.76 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume: 52.67 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3888.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.00 ft				
Tool Length:	75.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3866.00	
Shut In Tool	5.00			3871.00	
Hydraulic tool	5.00			3876.00	
Safety Joint	3.00			3879.00	
Packer	4.00			3883.00	23.00 Bottom Of Top Packer
Packer	5.00			3888.00	
Stubb	1.00			3889.00	
Perforations	1.00			3890.00	
Change Over Sub	1.00			3891.00	
Recorder	0.00	6669	Inside	3891.00	
Blank Spacing	30.00			3921.00	
Change Over Sub	1.00			3922.00	
Recorder	0.00	11084	Outside	3922.00	
Perforations	15.00			3937.00	
Bullnose	3.00			3940.00	52.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Rains & Williamson Oil CO Inc

**Thomason-Maxfield # 2-20**

220 W Douglas Ste 110  
Wichita KS 67202

**20 10S 21W Graham KS**

Job Ticket: 27544

**DST#: 4**

ATTN: Juanita Green

Test Start: 2007.03.12 @ 06:29:48

## 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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
206.00	OCM-10%Oil 90%Mud	1.204
4.00	Clean Oil	0.056

Total Length: 210.00 ft      Total Volume: 1.260 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

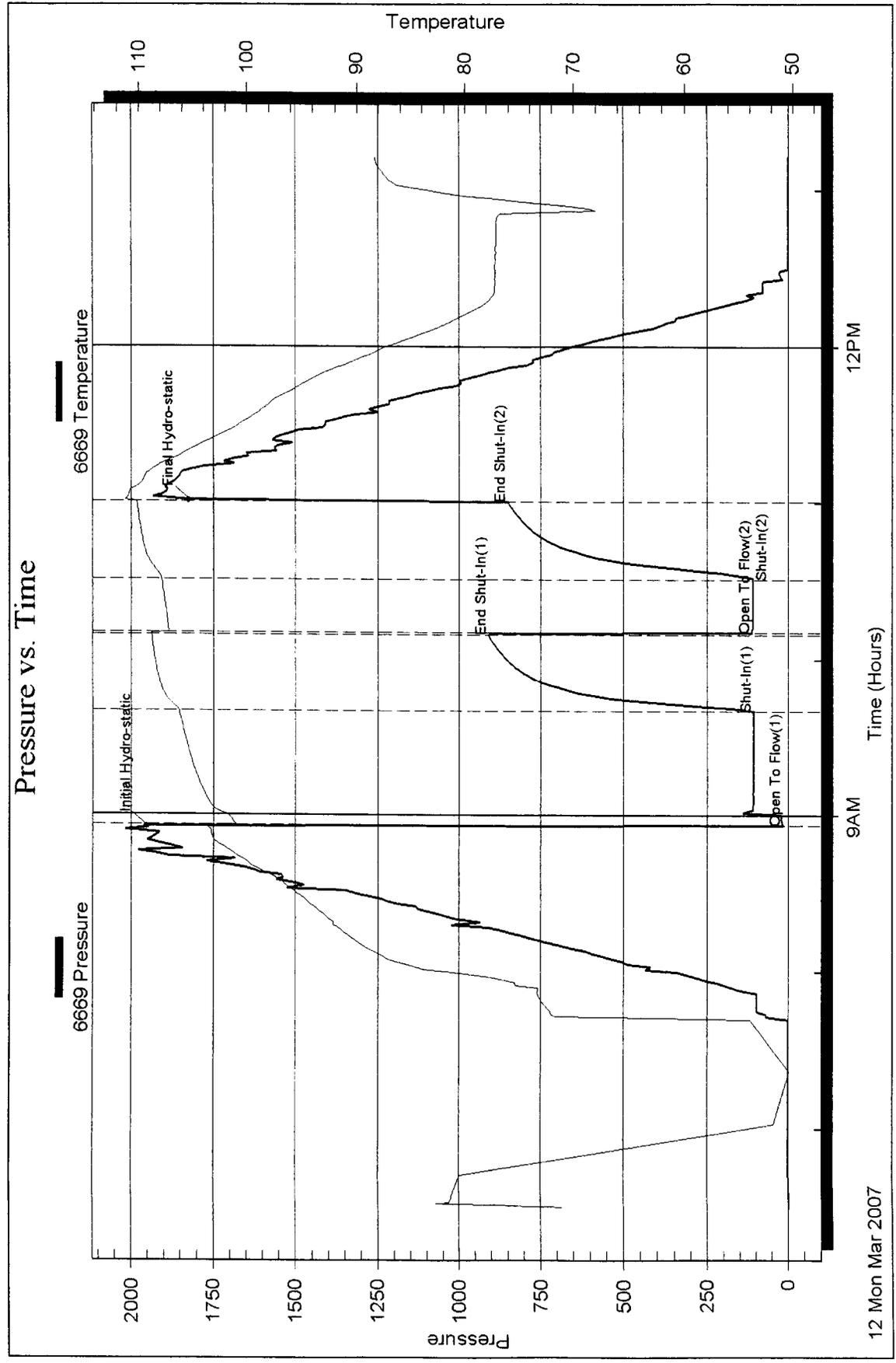
Serial #: 6669

Inside

Rains & Williamson Oil CO Inc

20 10S 21W Graham KS

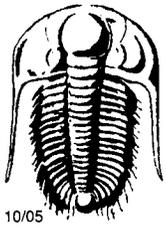
DST Test Number: 4



12 Mon Mar 2007

9AM

12PM



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27541

9925

## Test Ticket

Well Name & No. THOMASON-MAXFIELD #2-20 Test No. #1 Date 3-9-07  
 Company RAINS & WILLIAMSON OIL Co., INC. Zone Tested L.K.C.-  
 Address 220 W. DOUGLAS, STE. 110 WICHITA, KS. 67202 Elevation 2320 KB 2315 GL  
 Co. Rep / Geo. JOSH ABSTIN (Jim Musgrove) Rig MURFIA #8  
 Location: Sec. 20 Twp. 10S Rge. 21W Co. GRAHAM State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3544 to 3612 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 40,000  
 Anchor Length 68' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 45,000  
 Top Packer Depth 3539 Tool Weight 2,200  
 Bottom Packer Depth 3544 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth 3612 Wt. Pipe Run 0 Drill Collar Run 185  
 Mud Wt. 9.0 LCM 2# Vis. 56 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3348  
 Blow Description IF - WEAK 1/2" BLOW, FSI - DEAD  
FF - WEAK SURFACE BLOW, FSI - DEAD

Recovery - Total Feet 70 GIP 0 Ft. in DC 70 Ft. in DP 0  
 Rec. 70 Feet of D. MUD FEW OIL SPOTS %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 106 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 3,700 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	177.3	PSI	6669	✓ 1100
(B) First Initial Flow Pressure	1.3	PSI	(depth) 3547	Jars _____
(C) First Final Flow Pressure	3.3	PSI	Recorder No. 11084	Safety Jt. _____
(D) Initial Shut-In Pressure	38.5	PSI	(depth) 3579	Circ Sub _____
(E) Second Initial Flow Pressure	3.5	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	6.0	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	34.8	PSI	Initial Opening 30	Ext. Packer _____
(Q) Final Hydrostatic Mud	16.57	PSI	Initial Shut-In 4.5	Shale Packer _____

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Approved By \_\_\_\_\_

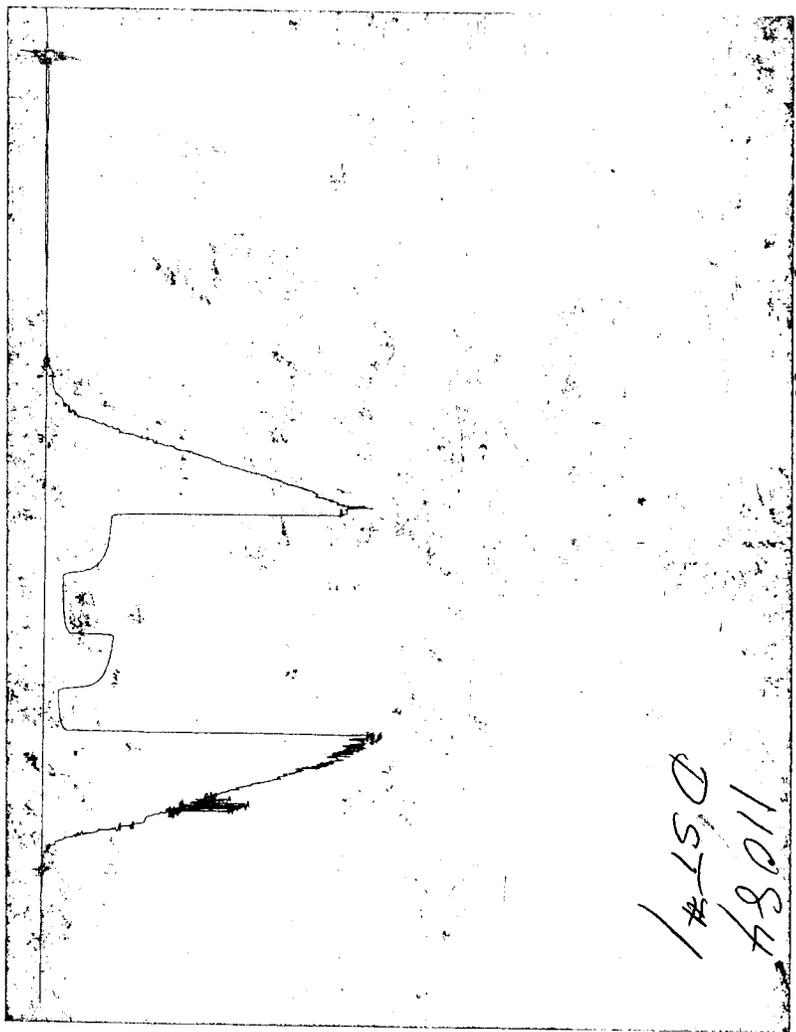
Our Representative John F. Schmidt

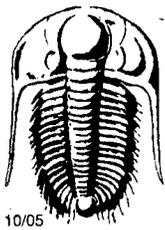
Final Flow	45
Final Shut-In	4.5
T-On Location	18:30
T-Started	21:44
T-Open	23:39
T-Pulled	02:25
T-Out	04:27
Sub Total:	_____
Std. By <u>shr</u>	500
Acc. Chg:	_____
Other:	_____
Total:	1697.50

**CHART PAGE**

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

11084  
DST#1





# TRILOBITE TESTING INC.

27542

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. THOMASCA-MAYFIELD #2-20 Test No. #2 Date 3-10-07  
 Company RAIK'S & WILLIAMSON OIL Co., INC Zone Tested L, K, - H, F, J  
 Address \_\_\_\_\_ Elevation 2320 KB 2315 GL  
 Co. Rep / Geo. JOSH AUSTIN Rig MURFIN #8  
 Location: Sec. 20 Twp. 10S Rge. 21W Co. GRAHAM State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3710 TO 3780 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 40,000  
 Anchor Length 70' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 45,000  
 Top Packer Depth 3705 Tool Weight 2,200  
 Bottom Packer Depth 3710 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3780 Wt. Pipe Run 0 Drill Collar Run 18.5'  
 Mud Wt. 9.2 LCM 2\* Vis. 52 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3533  
 Blow Description IF - WEAK BUILT TO 1" IN, DECREASE TO SURFACE ISI - DEAD  
FF - WEAK SURFACE F.SI - DEAD

Recovery - Total Feet 125 GIP 0 Ft. in DC 125' Ft. in DP 0  
 Rec. 125 Feet of D. 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 110 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1879</u> PSI	<u>6669</u>	<input checked="" type="checkbox"/> <u>1100</u>
(B) First Initial Flow Pressure		<u>32</u> PSI	(depth) <u>3713</u>	Jars _____
(C) First Final Flow Pressure		<u>63</u> PSI	Recorder No. <u>11084</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>1277</u> PSI	(depth) <u>3747</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>70</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>92</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1102</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1778</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____

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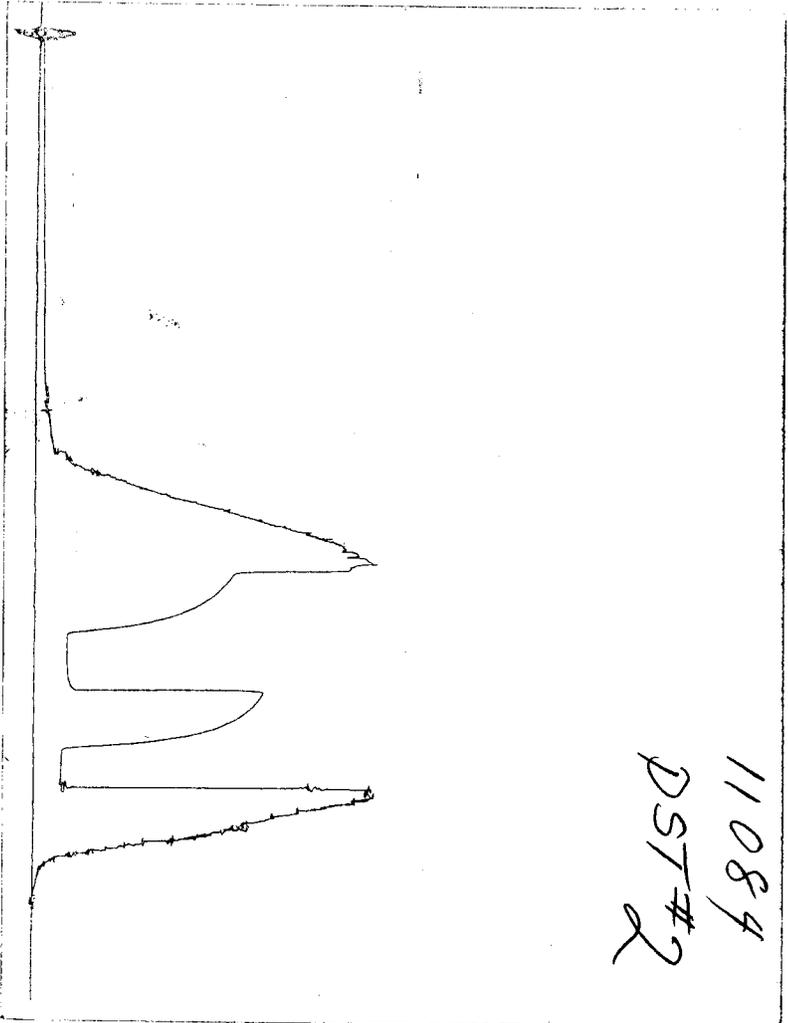
Approved By [Signature]  
 Our Representative John J. Schmidt

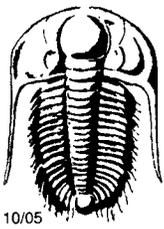
Final Flow	<u>45</u>	Ruined Packer	_____
Final Shut-In	<u>45</u>	Mileage	<u>RT. - 7897.50</u>
<b>T-On Location</b>	<u>18:45</u>	Sub Total:	_____
T-Started	<u>20:00</u>	Std. By	_____
T-Open	<u>21:47</u>	Acc. Chg:	<u>1197.50</u>
T-Pulled	<u>00:31</u>	Other:	_____
T-Out	<u>02:45</u>	Total:	_____

**CHART PAGE**

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

11084  
DST#2





# TRILOBITE TESTING INC.

27543

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. THOMASON-MAYFIELD #2-20 Test No. #3 Date 3-11-07  
 Company RAINS & WILLIAMSON OIL CO., INC. Zone Tested L.K.C. - K TO PAWNEE  
 Address \_\_\_\_\_ Elevation 2320 KB 2315 GL  
 Co. Rep / Geo. JOSH AUSTIN Rig MURFIN  
 Location: Sec. 20 Twp. 10S Rge. 21W Co. GRAHAM State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3785 TO 3910 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000  
 Anchor Length 125' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 3780 Tool Weight 2,200  
 Bottom Packer Depth 3785 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3910 Wt. Pipe Run 0 Drill Collar Run 185'  
 Mud Wt. 9.2 LCM 1\* Vis. 58 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3597  
 Blow Description FF-WEAK BUILT 3" IN. FSI-DEAD  
FF-WEAK BUILT 1" IN. FSI-DEAD

Recovery - Total Feet 122' GIP 0 Ft. in DC 122 Ft. in DP 0  
 Rec. 121' Feet of CCM %gas 30 %oil \_\_\_\_\_ %water 70 %mud \_\_\_\_\_  
 Rec. 1' Feet 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 108 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1898</u> PSI	<u>6669</u>	<u>1100</u> ✓
(B) First Initial Flow Pressure		<u>20</u> PSI	(depth) <u>3788</u>	Jars _____
(C) First Final Flow Pressure		<u>46</u> PSI	Recorder No. <u>11084</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>883</u> PSI	(depth) <u>3882</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>50</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>71</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>757</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1812</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>30</u>	Mileage <u>RT-78 9250</u>

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Approved By \_\_\_\_\_

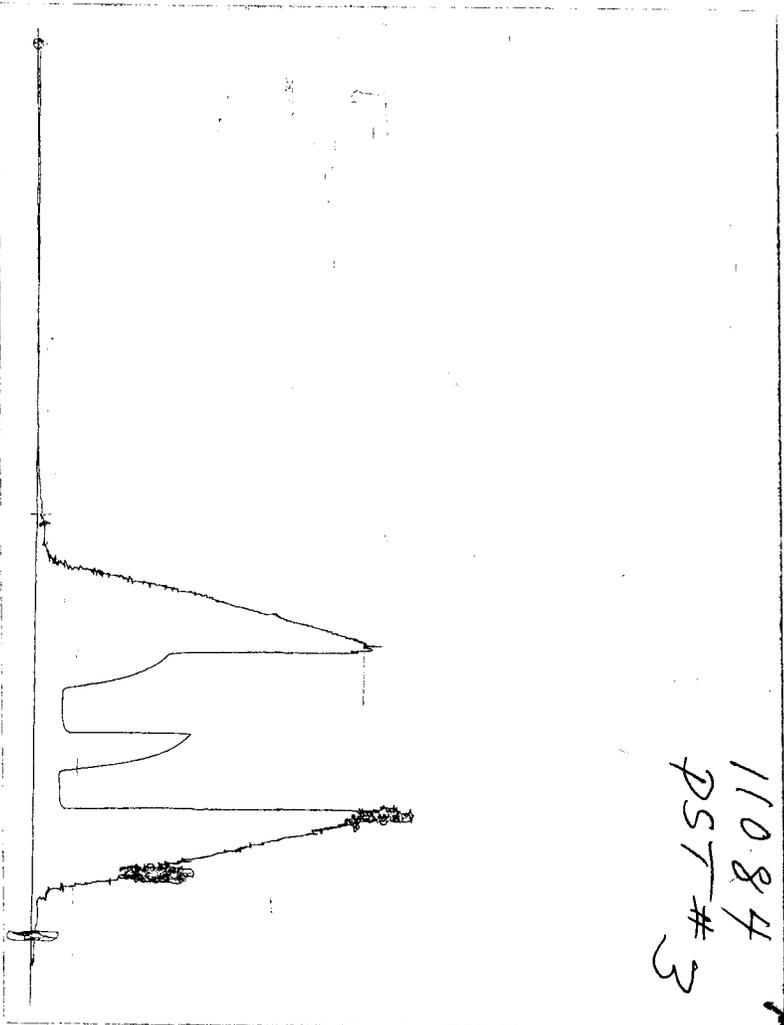
Our Representative John Schmidt

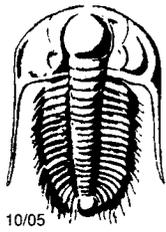
**T-On Location** 15:20 Sub Total: \_\_\_\_\_  
 T-Started 16:14 Std. By \_\_\_\_\_  
 T-Open 18:10 Acc. Chg: \_\_\_\_\_  
 T-Pulled 20:11 Other: \_\_\_\_\_  
 T-Out 22:08 Total: \$1197.50

**CHART PAGE**

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

110.84  
PST # 3





# TRILOBITE TESTING INC.

27544

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. THOMASON-MAYFIELD #2-20 Test No. #4 Date 3-12-07  
 Company RAINS & WILLIAMSON OIL Co., INC. Zone Tested ARBUCKLE REWORK  
 Address \_\_\_\_\_ Elevation 2320 KB 2315 GL \_\_\_\_\_  
 Co. Rep / Geo. JIM MUSEROVE Rig MURFIN #8  
 Location: Sec. 20 Twp. 10S Rge. 21W Co. GRAHAM State K.S.  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3888 To 3940 Initial Str Wt./Lbs. 44000 Unseated Str Wt./Lbs. 44000  
 Anchor Length 52 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 3883' Tool Weight 2,200  
 Bottom Packer Depth 3888' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3940 Wt. Pipe Run 0 Drill Collar Run 18.5'  
 Mud Wt. 9.2 LCM 1# Vis. 58 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3690  
 Blow Description FF-WEAK BUILT TO 1" IN 8-MIN. LOST 40' D MUD BLEED BLOW  
OFF-BUILT BACK TO 1" IN FSI- DEAD  
FE-WEAK SURFACE BLOW FSI- DEAD

Recovery - Total Feet 210 GIP \_\_\_\_\_ Ft. in DC 185 Ft. in DP 25  
 Rec. 206 Feet of OC M %gas 10 %oil \_\_\_\_\_ %water 90 %mud \_\_\_\_\_  
 Rec. 4 Feet of CLEAN 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 110 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1956</u> PSI	<u>1956</u> PSI	<u>6669</u>	<u>1100</u> ✓
(B) First Initial Flow Pressure	<u>14108</u> PSI	<u>14108</u> PSI	(depth) <u>3891</u>	Jars _____
(C) First Final Flow Pressure	<u>107</u> PSI	<u>107</u> PSI	Recorder No. <u>11084</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>910</u> PSI	<u>910</u> PSI	(depth) <u>3922</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>112</u> PSI	<u>112</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>108</u> PSI	<u>108</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>850</u> PSI	<u>850</u> PSI	Initial Opening <u>45</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1939</u> PSI	<u>1939</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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Approved By [Signature]  
 Our Representative John J. Schmidt

Final Flow 20 Ruined Packer \_\_\_\_\_  
 Final Shut-In 30 Mileage RT-78 9750  
 T-On Location 06:00 Sub Total: \_\_\_\_\_  
 T-Started 06:29 Std. By \_\_\_\_\_  
 T-Open 08:55 Acc. Chg: 1197.50  
 T-Pulled 11:01 Other: \_\_\_\_\_  
 T-Out 13:13 Total: \_\_\_\_\_

**CHART PAGE**

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

