

DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co Inc**

Box 159
Stafford KS 67578

ATTN: Robin Austin

27 18 9 Rice KS

Volkland # 1-27

Start Date: 2007.01.04 @ 17:05:38

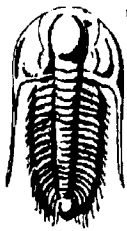
End Date: 2007.01.04 @ 23:45:08

Job Ticket #: 25941 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

Rama Operating Co Inc

Box 159
Stafford KS 67578

ATTN: Robin Austin

Volkland # 1-27

27 18 9 Rice KS

Job Ticket: 25941

DST#: 1

Test Start: 2007.01.04 @ 17:05:38

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 23:45:08

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3161.00 ft (KB) To 3232.00 ft (KB) (TVD)**

Total Depth: 3232.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1722.00 ft (KB)

1713.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6741 Inside

Press@RunDepth: psig @ 3168.00 ft (KB)

Start Date: 2007.01.04

End Date:

2007.01.04

Capacity: 7000.00 psig

Last Calib.:

2007.01.04

Start Time: 17:05:40

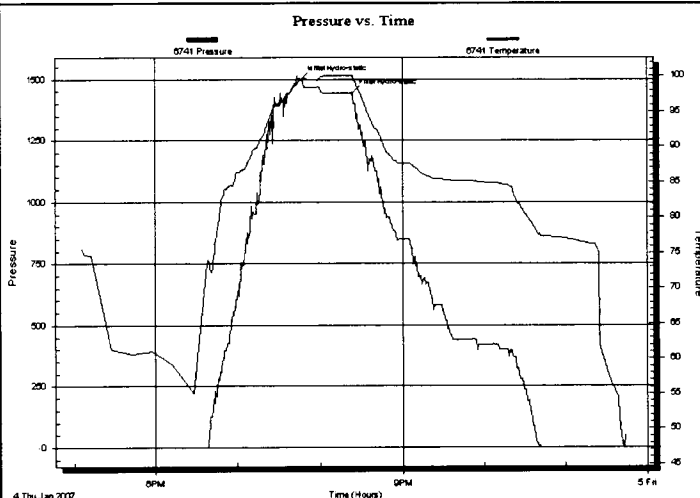
End Time:

23:45:08

Time On Btm: 2007.01.04 @ 19:45:53

Time Off Btm: 2007.01.04 @ 20:23:23

TEST COMMENT: Hit bridge 50' off bottom could not get thru
Had hole in pipe



PRESSURE SUMMARY

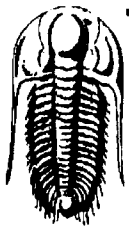
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1497.23	99.53	Initial Hydro-static
38	1442.55	100.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1200.00	DM	14.57

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Rama Operating Co Inc

Volkland # 1-27

Box 159
Stafford KS 67578

27 18 9 Rice KS

Job Ticket: 25941

DST#: 1

ATTN: Robin Austin

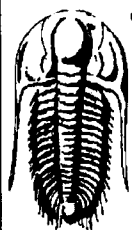
Test Start: 2007.01.04 @ 17:05:38

Tool Information

Drill Pipe:	Length: 2911.00 ft	Diameter: 3.80 inches	Volume: 40.83 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	42.05 bbl	Tool Chased	50.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3161.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	71.00 ft				
Tool Length:	92.00 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			3141.00	
Shut In Tool	5.00			3146.00	
Hydraulic tool	5.00			3151.00	
Packer	5.00			3156.00	21.00 Bottom Of Top Packer
Packer	5.00			3161.00	
Stubb	1.00			3162.00	
Perforations	5.00			3167.00	
Change Over Sub	1.00			3168.00	
Recorder	0.00	6741	Inside	3168.00	
Drill Pipe	31.00			3199.00	
Change Over Sub	1.00			3200.00	
Recorder	0.00	13254	Outside	3200.00	
Perforations	29.00			3229.00	
Bullnose	3.00			3232.00	71.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rama Operating Co Inc

Volkland # 1-27

Box 159
Stafford KS 67578

27 18 9 Rice KS

Job Ticket: 25941

DST#: 1

ATTN: Robin Austin

Test Start: 2007.01.04 @ 17:05:38

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: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1200.00	DM	14.574

Total Length: 1200.00 ft

Total Volume: 14.574 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

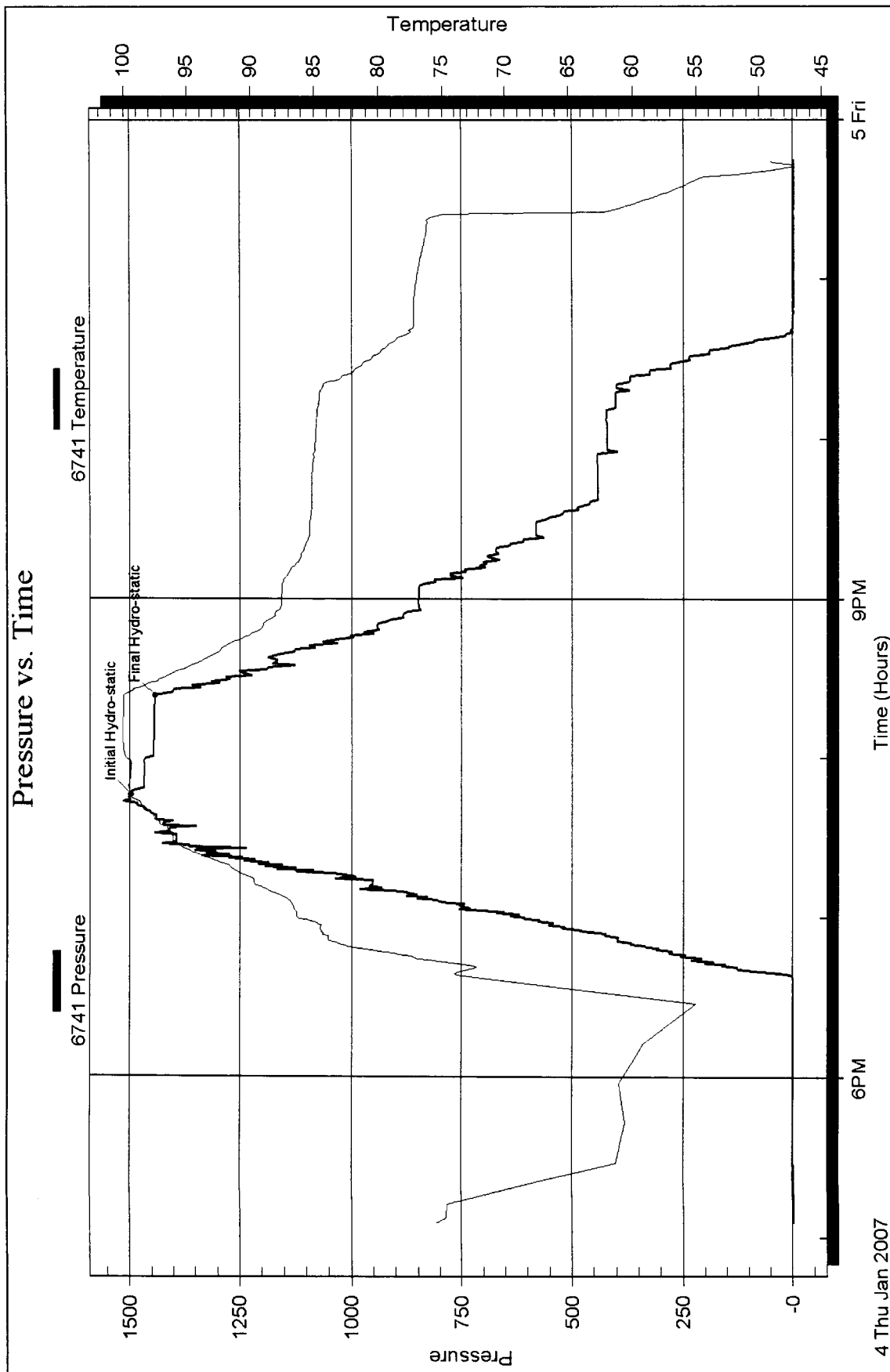
Serial #:

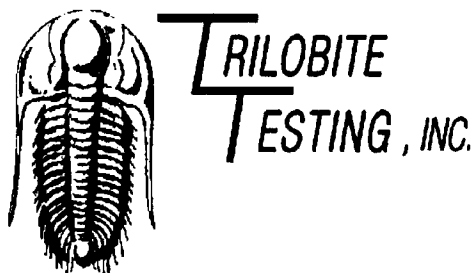
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co Inc**

Box 159
Stafford KS 67578

ATTN: Robin Austin

27 18 9 Rice KS

Volkland # 1-27

Start Date: 2007.01.05 @ 07:03:16

End Date: 2007.01.05 @ 13:28:01

Job Ticket #: 25942 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

Rama Operating Co Inc

Box 159
Stafford KS 67578

ATTN: Robin Austin

Volkland # 1-27

27 18 9 Rice KS

Job Ticket: 25942

DST#: 2

Test Start: 2007.01.05 @ 07:03:16

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:50:16

Time Test Ended: 13:28:01

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3161.00 ft (KB) To 3232.00 ft (KB) (TVD)**

Total Depth: 3232.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1722.00 ft (KB)

1713.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6741 Inside

Press@RunDepth: 615.69 psig @ 3168.00 ft (KB)

Start Date: 2007.01.05 End Date:

Start Time: 07:03:18 End Time:

2007.01.05

13:28:01

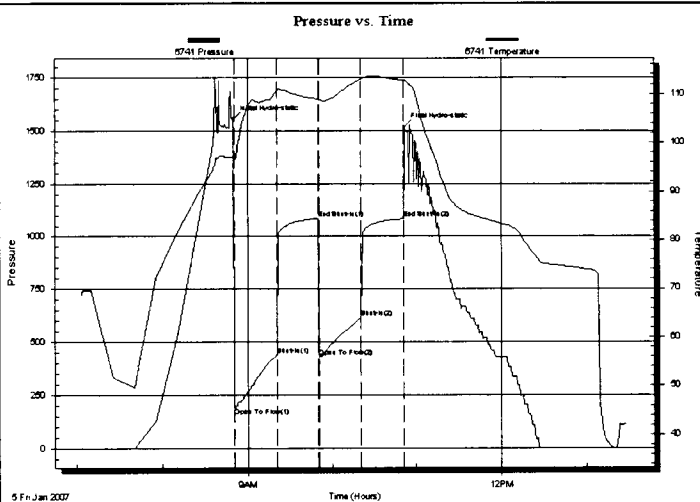
Capacity: 7000.00 psig

Last Calib.: 2007.01.05

Time On Btm: 2007.01.05 @ 08:49:56

Time Off Btm: 2007.01.05 @ 10:51:31

TEST COMMENT: IF Strong B-B in 4 min
ISI Weak steady surface blow
FF Strong B-B in 5 min
FSI Weak steady surface blow



PRESSURE SUMMARY

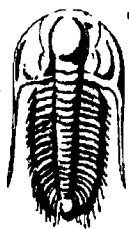
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1554.40	97.06	Initial Hydro-static
1	149.43	96.76	Open To Flow (1)
31	437.49	110.59	Shut-In(1)
61	1084.79	108.92	End Shut-In(1)
61	426.52	108.74	Open To Flow (2)
91	615.69	112.92	Shut-In(2)
121	1082.38	112.64	End Shut-In(2)
122	1517.18	112.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
321.00	Sitly O&GCMdyWtr 15%G 3%O 50%W	322.24
245.00	Sitly O&GCMdyWtr 15%G 3%O 40%W	423.44
380.00	Sitly O&GCMdyWtr 10%G 3%O 20%W	675.33
480.00	Sitly OCGsyM 10%G 3%O 87%M	6.73

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Rama Operating Co Inc

Volkland # 1-27

Box 159
Stafford KS 67578

27 18 9 Rice KS

Job Ticket: 25942

DST#: 2

ATTN: Robin Austin

Test Start: 2007.01.05 @ 07:03:16

Tool Information

Drill Pipe:	Length: 2911.00 ft	Diameter: 3.80 inches	Volume: 40.83 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 42.05 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3161.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	71.00 ft				
Tool Length:	92.00 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			3141.00	
Shut In Tool	5.00			3146.00	
Hydraulic tool	5.00			3151.00	
Packer	5.00			3156.00	21.00 Bottom Of Top Packer
Packer	5.00			3161.00	
Stubb	1.00			3162.00	
Perforations	5.00			3167.00	
Change Over Sub	1.00			3168.00	
Recorder	0.00	6741	Inside	3168.00	
Drill Pipe	31.00			3199.00	
Change Over Sub	1.00			3200.00	
Recorder	0.00	13254	Outside	3200.00	
Perforations	29.00			3229.00	
Bullnose	3.00			3232.00	71.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Rama Operating Co Inc

Volkland # 1-27

Box 159
Stafford KS 67578

27 18 9 Rice KS

Job Ticket: 25942

DST#: 2

ATTN: Robin Austin

Test Start: 2007.01.05 @ 07:03:16

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: 28000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
321.00	Sltly O&GCMdyWtr 15%G 3%O 50%W 32%M	2.244
245.00	Sltly O&GCMdyWtr 15%G 3%O 40%W 42%M	3.437
380.00	Sltly O&GCMdyWtr 10%G 3%O 20%W 67%M	5.330
480.00	Sltly OCGsyM 10%G 3%O 87%M	6.733

Total Length: 1426.00 ft

Total Volume: 17.744 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

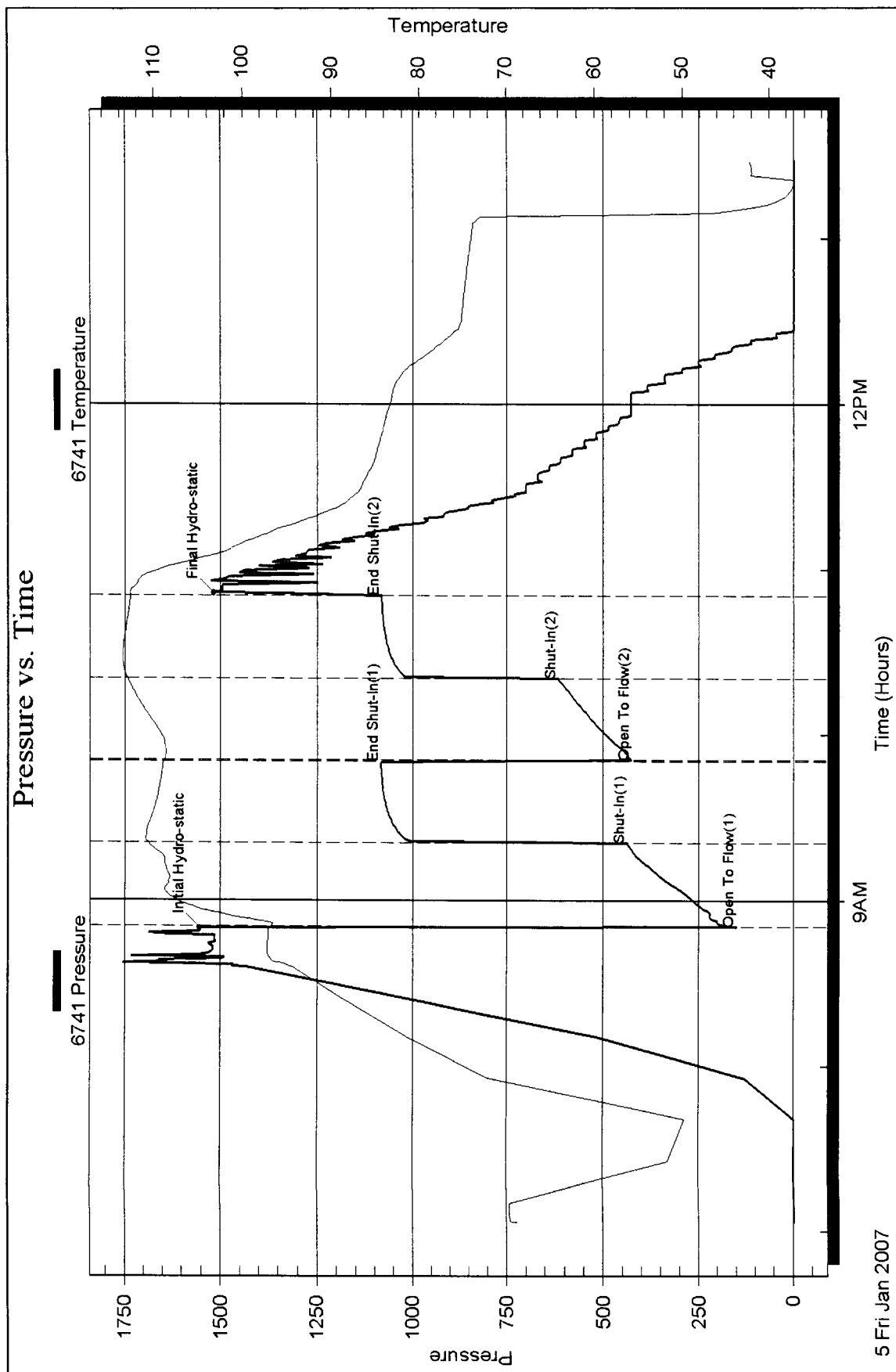
Serial #:

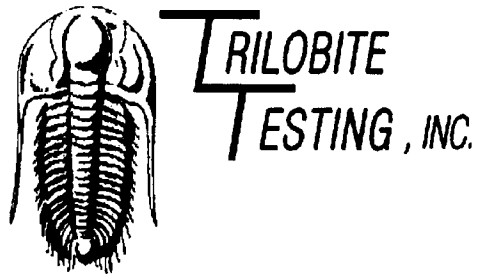
Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .21 @ 76 = 28000ppm

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co Inc**

Box 159
Stafford KS 67578

ATTN: Robin Austin

27 18 9 Rice KS

Volkland # 1-27

Start Date: 2007.01.05 @ 21:15:45

End Date: 2007.01.06 @ 02:42:00

Job Ticket #: 25943 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
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DRILL STEM TEST REPORT

Rama Operating Co Inc

Box 159
Stafford KS 67578

ATTN: Robin Austin

Volkland # 1-27

27 18 9 Rice KS

Job Ticket: 25943

DST#: 3

Test Start: 2007.01.05 @ 21:15:45

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 02:42:00

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3234.00 ft (KB) To 3242.00 ft (KB) (TVD)**

Total Depth: 3242.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1722.00 ft (KB)

1713.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6741 Inside

Press@RunDepth: psig @ 3235.00 ft (KB)

Start Date: 2007.01.05 End Date: 2007.01.06

Start Time: 21:15:47 End Time: 02:42:00

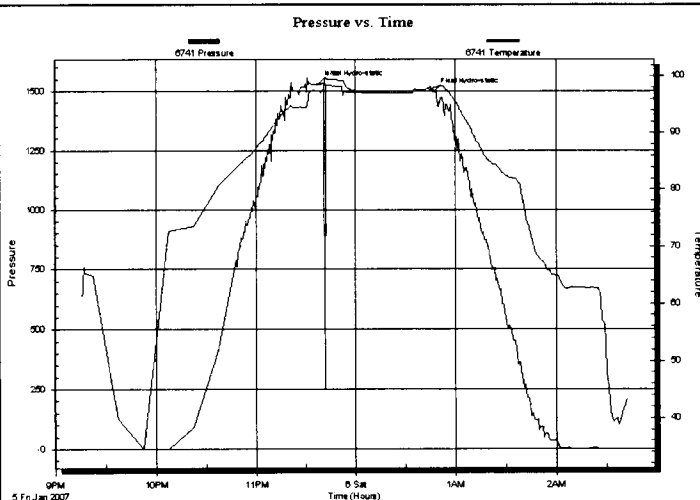
Capacity: 7000.00 psig

Last Calib.: 2007.01.06

Time On Btm: 2007.01.05 @ 23:37:15

Time Off Btm: 2007.01.06 @ 00:47:15

TEST COMMENT:



PRESSURE SUMMARY

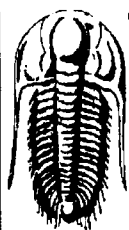
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1527.33	97.35	Initial Hydro-static
70	1495.92	98.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	DM	0.30

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Rama Operating Co Inc

Volkland # 1-27

Box 159
Stafford KS 67578

27 18 9 Rice KS

Job Ticket: 25943

DST#: 3

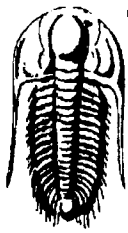
ATTN: Robin Austin

Test Start: 2007.01.05 @ 21:15:45

Tool Information

Drill Pipe:	Length: 2973.00 ft	Diameter: 3.80 inches	Volume: 41.70 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 42.92 bbl</u>	Tool Chased	20.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3234.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	8.00 ft				
Tool Length:	29.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					
Could not get to bottom spud tool lost mud 40 ' from bottom					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3214.00	
Shut In Tool	5.00			3219.00	
Hydraulic tool	5.00			3224.00	
Packer	5.00			3229.00	21.00 Bottom Of Top Packer
Packer	5.00			3234.00	
Stubb	1.00			3235.00	
Recorder	0.00	6741	Inside	3235.00	
Perforations	4.00			3239.00	
Recorder	0.00	13254	Outside	3239.00	
Bullnose	3.00			3242.00	8.00 Bottom Packers & Anchor
Total Tool Length:	29.00				



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Rama Operating Co Inc

Volkland # 1-27

Box 159
Stafford KS 67578

27 18 9 Rice KS

Job Ticket: 25943

DST#: 3

ATTN: Robin Austin

Test Start: 2007.01.05 @ 21:15:45

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	DM	0.295

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

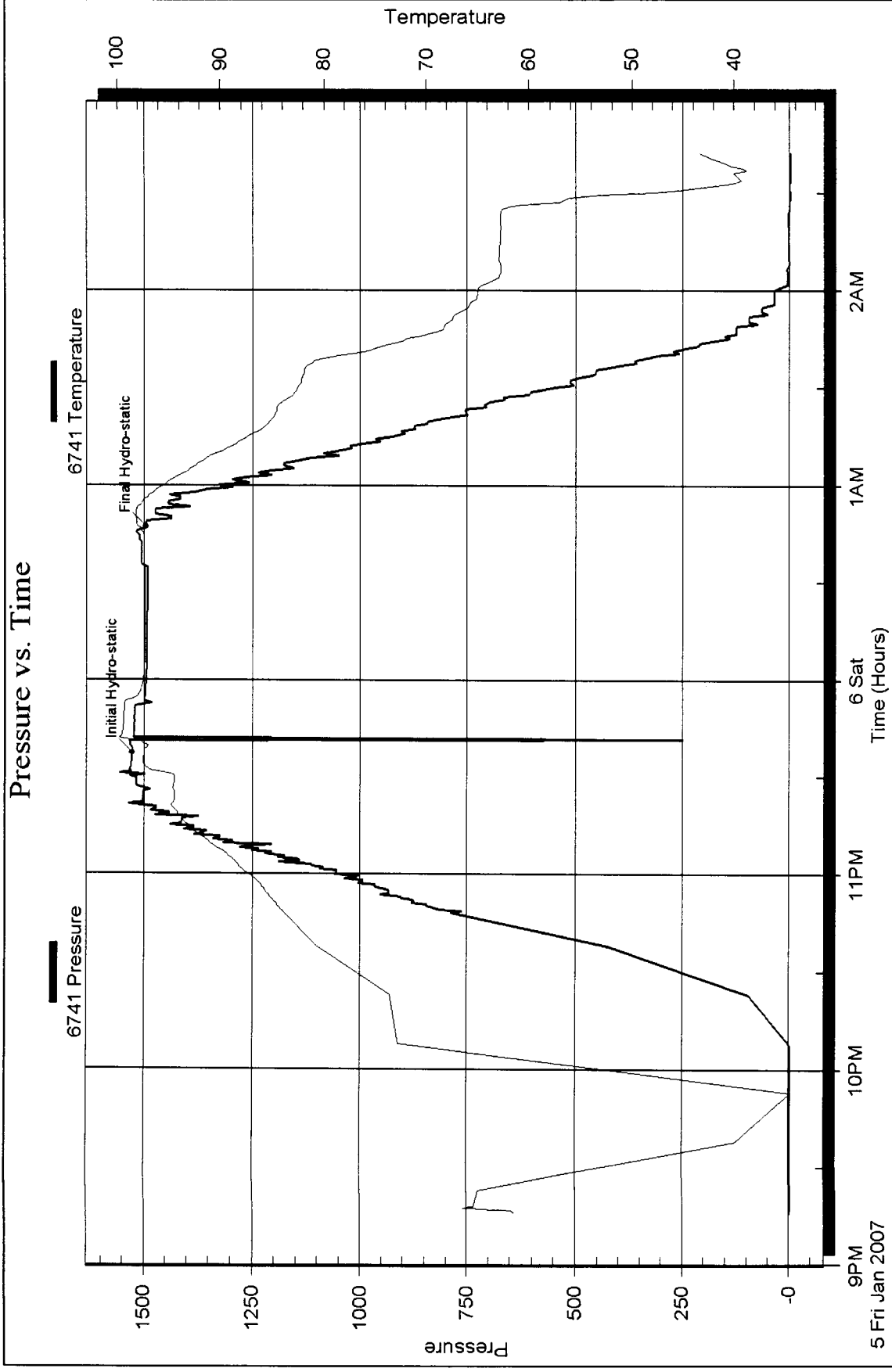
Serial #:

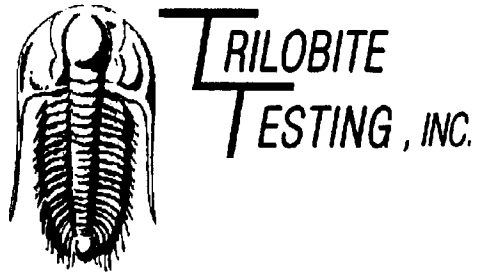
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co Inc**

Box 159
Stafford KS 67578

ATTN: Robin Austin

27 18 9 Rice KS

Volkland # 1-27

Start Date: 2007.01.06 @ 11:06:24

End Date: 2007.01.06 @ 14:52:09

Job Ticket #: 25944 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

Rama Operating Co Inc

Box 159
Stafford KS 67578

ATTN: Robin Austin

Volkland # 1-27

27 18 9 Rice KS

Job Ticket: 25944

DST#: 4

Test Start: 2007.01.06 @ 11:06:24

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:00

Time Test Ended: 14:52:09

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3234.00 ft (KB) To 3242.00 ft (KB) (TVD)**

Total Depth: 3242.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1722.00 ft (KB)

1713.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6741 Inside

Press@RunDepth: psig @ 3235.00 ft (KB)

Start Date: 2007.01.06

End Date:

2007.01.06

Capacity: 7000.00 psig

Last Calib.: 2007.01.06

Start Time: 11:06:26

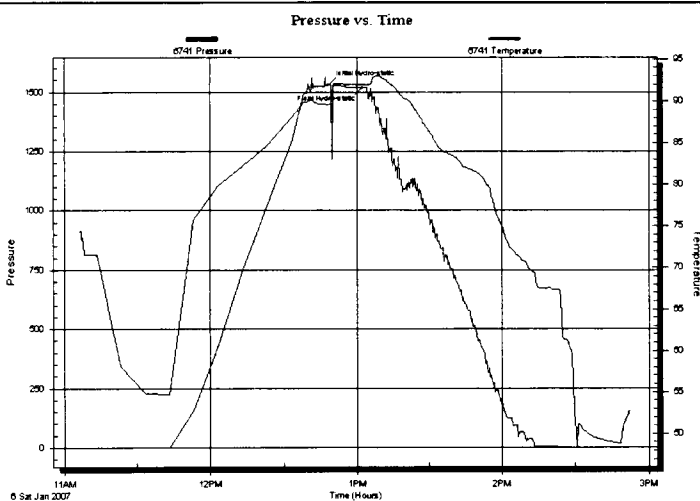
End Time:

14:52:09

Time On Btm: 2007.01.06 @ 12:48:34

Time Off Btm: 2007.01.06 @ 13:02:14

TEST COMMENT: Slid tool 10' still 12' off bottom spud tool lost mud



PRESSURE SUMMARY

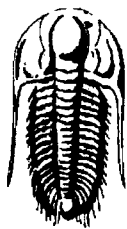
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1529.62	89.61	Initial Hydro-static
14	1517.41	91.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	DM	0.59

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Rama Operating Co Inc

Volkland # 1-27

Box 159
Stafford KS 67578

27 18 9 Rice KS

Job Ticket: 25944

DST#: 4

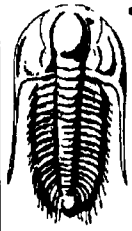
ATTN: Robin Austin

Test Start: 2007.01.06 @ 11:06:24

Tool Information

Drill Pipe:	Length: 2973.00 ft	Diameter: 3.80 inches	Volume: 41.70 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	42.92 bbl	Tool Chased 10.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3234.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	29.00 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			3214.00	
Shut In Tool	5.00			3219.00	
Hydraulic tool	5.00			3224.00	
Packer	5.00			3229.00	21.00 Bottom Of Top Packer
Packer	5.00			3234.00	
Stubb	1.00			3235.00	
Recorder	0.00	6741	Inside	3235.00	
Perforations	4.00			3239.00	
Recorder	0.00	13254	Outside	3239.00	
Bullnose	3.00			3242.00	8.00 Bottom Packers & Anchor
Total Tool Length:	29.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Rama Operating Co Inc

Volkland # 1-27

Box 159
Stafford KS 67578

27 18 9 Rice KS

Job Ticket: 25944

DST#: 4

ATTN: Robin Austin

Test Start: 2007.01.06 @ 11:06:24

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: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	DM	0.590

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

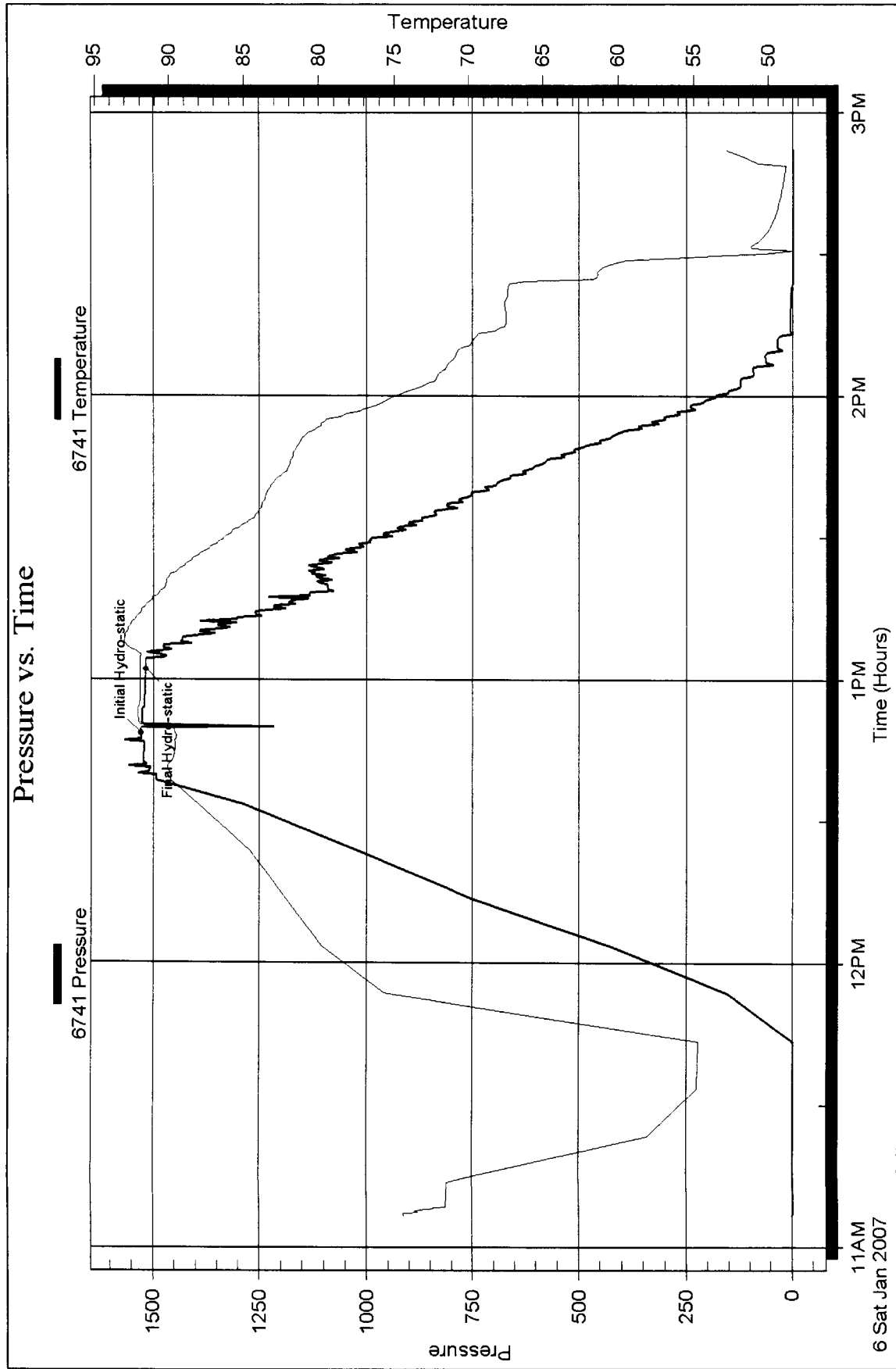
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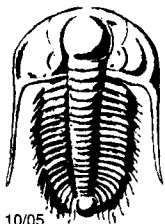
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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9717 ✓ 25941 ✓

Test Ticket

Well Name & No. <u>Volkland #1-27</u>	Test No. <u>1</u>	Date <u>1-4-07</u>
Company <u>Rama Operating Co. Inc</u>	Zone Tested <u>Arbuckle</u>	
Address <u>Box 159 Stafford, Ks. 67578</u>	Elevation <u>1722</u> KB <u>1713</u> GL	
Co. Rep / Geo. <u>Jim Musgrove</u>	Rig <u>Sterling #1</u>	
Location: Sec. <u>27</u> Twp. <u>18</u> Rge. <u>9</u>	Co. <u>Rice</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3161 ————— 3232</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt/Lbs. <u>50,000</u>
Anchor Length <u>71</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>50,000</u>
Top Packer Depth <u>3156</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3161</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3232</u>	Wt. Pipe Run _____	Drill Collar Run <u>248</u>
Mud Wt. <u>9.2</u> LCM _____ Vis. <u>49</u> WL <u>8</u>	Drill Pipe Size <u>1 1/2 XH</u>	Ft. Run <u>2911</u>
Blow Description <u>Hit bridge 50' off bottom could not get thru</u> <u>Had hole in pipe</u>		

Recovery - Total Feet <u>1200</u>	GIP _____	Ft. in DC <u>248</u>	Ft. in DP <u>952</u>
Rec. <u>1200</u>	Feet of <u>D.M.</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>101</u>	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____
RW _____ @ _____	*F _____	Chlorides _____ ppm Recovery _____	Chlorides <u>3800</u> ppm System _____

(A) Initial Hydrostatic Mud _____	AK-1 <u>1497</u> PSI	Alpine _____	Recorder No. <u>6741</u>	Test <u>100-900</u>
(B) First Initial Flow Pressure _____	PSI	(depth) _____	<u>3168</u>	Jars _____
(C) First Final Flow Pressure _____	PSI	Recorder No. <u>13254</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure _____	PSI	(depth) <u>3200</u>	Circ Sub _____	
(E) Second Initial Flow Pressure _____	PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure _____	PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure _____	PSI	Initial Opening _____	Ext. Packer _____	
(Q) Final Hydrostatic Mud _____	<u>1442</u> PSI	Initial Shut-In _____	Shale Packer _____	

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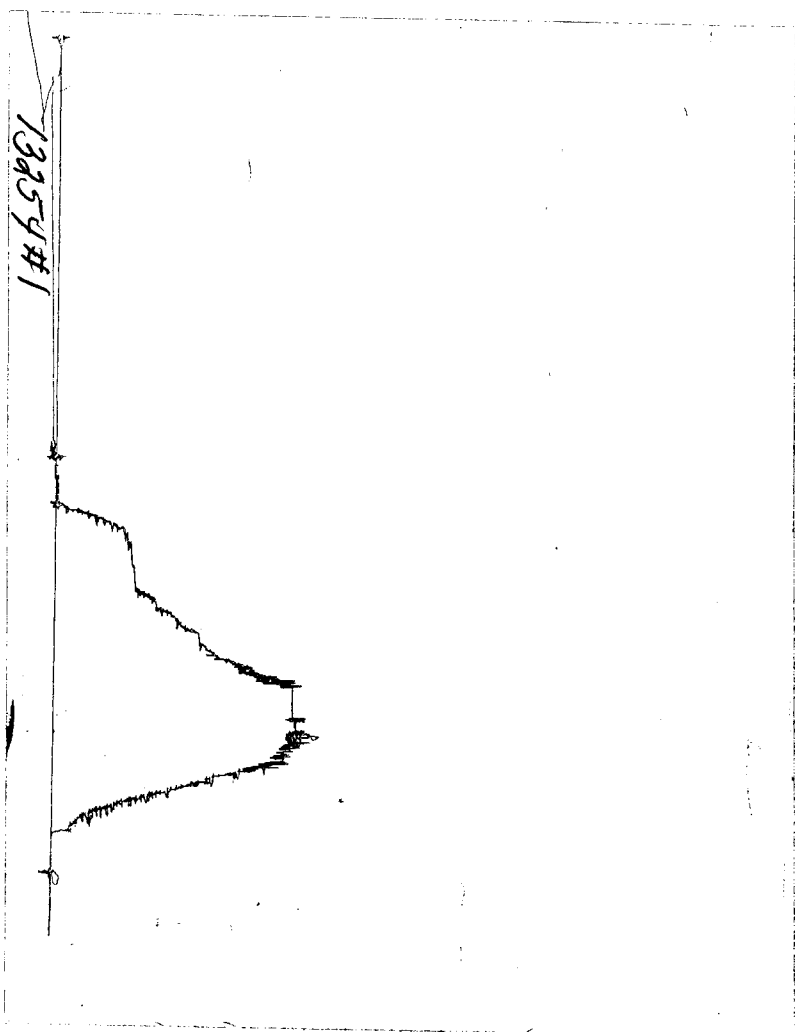
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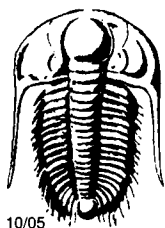
Our Representative Dan Bangle

Final Flow _____	Mileage <u>168 RT 210</u>
Final Shut-In _____	Sub Total: <u>1310</u>
T-On Location <u>15:30</u>	Std. By _____
T-Started <u>17:05</u>	Acc. Chg: _____
T-Open _____	Other: <u>1110</u>
T-Pulled <u>20:10</u>	Total: _____
T-Out <u>23:45</u>	

CHART PAGE

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





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Test Ticket

Well Name & No.	<u>Volkland #1-27</u>	Test No.	<u>2</u>	Date	<u>1-5-07</u>
Company	<u>Rama Operating Co. Inc</u>	Zone Tested	<u>Arbuckle</u>		
Address		Elevation	<u>1722</u>	KB	<u>1713</u>
Co. Rep / Geo.	<u>Jim Musgrove</u>	Rig	<u>Sterling #1</u>		
Location: Sec.	<u>27</u>	Twp.	<u>18</u>	Rge.	<u>9</u>
		Co.	<u>Rice</u>	State	<u>KS</u>
Comment:		Release date / time:			

Interval Tested	<u>3161 ——— 3232</u>	Initial Str Wt./Lbs.	<u>55,000</u>	Unseated Str Wt/Lbs.	<u>62,000</u>
Anchor Length	<u>71</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>70,000</u>
Top Packer Depth	<u>3156</u>	Tool Weight	<u>2,000</u>		
Bottom Packer Depth	<u>3161</u>	Hole Size	<u>7 7/8"</u>	Rubber Size	<u>6 3/4"</u>
Total Depth	<u>3232</u>	Wt. Pipe Run		Drill Collar Run	<u>248</u>
Mud Wt.	<u>9.1</u>	LCM		Vis.	<u>5-9</u>
		WL	<u>7.2</u>	Drill Pipe Size	<u>4.5" XH</u>
Blow Description	<u>I.F. Strong B-B in 4 min.</u>	Ft. Run	<u>2911</u>		
	<u>151- weak steady surface blow</u>				
	<u>FF- Strong B-B in 5 min.</u>				
	<u>ESI- weak steady surface blow</u>				
Recovery - Total Feet	<u>1426</u>	GIP		Ft. in DC	<u>248</u>
				Ft. in DP	<u>1178</u>
Rec.	<u>480</u>	Feet of	<u>517y C.C. sy M</u>	10 %gas	<u>3</u>
				%oil	
				%water	<u>87</u>
				%mud	
Rec.	<u>380</u>	Feet of	<u>517y C.C. Mdy WTC</u>	10 %gas	<u>3</u>
				%oil	<u>20</u>
				%water	<u>67</u>
				%mud	
Rec.	<u>245</u>	Feet of	<u>517y O+C C Mdy WTC</u>	15 %gas	<u>3</u>
				%oil	<u>40</u>
				%water	<u>42</u>
				%mud	
Rec.	<u>321</u>	Feet of	<u>517y O+C C Mdy WTC</u>	15 %gas	<u>3</u>
				%oil	<u>50</u>
				%water	<u>32</u>
				%mud	
BHT	<u>112</u>	*F Gravity		*API D @	
				*F Corrected Gravity	
				*API	
RW	<u>.21</u>	@	<u>76</u>	*F	
		Chlorides	<u>28,000</u>	ppm Recovery	
		Chlorides	<u>5,000</u>	ppm System	

AK-1	Alpine					
(A) Initial Hydrostatic Mud	<u>1702</u>	PSI	Recorder No.	<u>6241</u>	Test	<u>1100</u>
(B) First Initial Flow Pressure	<u>149</u>	PSI	(depth)	<u>3168</u>	Jars	
(C) First Final Flow Pressure	<u>437</u>	PSI	Recorder No.	<u>13254</u>	Safety Jt.	
(D) Initial Shut-In Pressure	<u>1084</u>	PSI	(depth)	<u>3200</u>	Circ Sub	
(E) Second Initial Flow Pressure	<u>426</u>	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	<u>615</u>	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	<u>1082</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>1577</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>168 RT 210</u>
			T-On Location	<u>06:15</u>	Sub Total:	<u>1310</u>
			T-Started	<u>07:03</u>	Std. By	
			T-Open	<u>08:50</u>	Acc. Chg:	
			T-Pulled	<u>10:50</u>	Other:	
			T-Out	<u>13:28</u>	Total:	

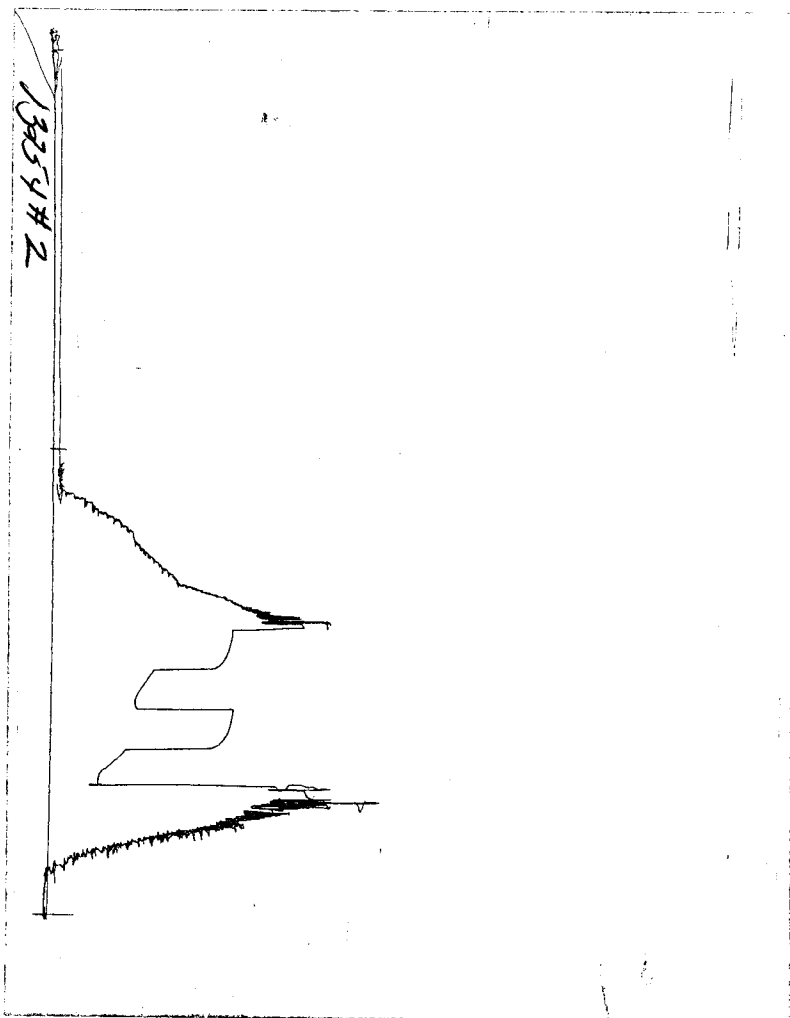
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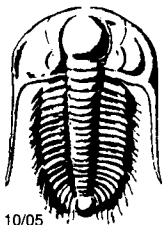
Approved By [Signature]

Our Representative [Signature]

CHART PAGE

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Test Ticket

Well Name & No. <u>Volkland #1-27</u>	Test No. <u>3</u>	Date <u>1-5-07</u>
Company <u>Rama Operating Co. Inc</u>	Zone Tested <u>Arbuckle</u>	
Address _____	Elevation <u>1722</u>	KB <u>1713</u> GL _____
Co. Rep / Geo. <u>Jim Musgrove</u>	Rig <u>Sterling #1</u>	
Location: Sec. <u>27</u> Twp. <u>18</u> Rge. <u>9</u>	Co. <u>Rice</u>	State <u>Ks</u>
Comment: _____	Release date / time: _____	

Interval Tested 3234 ————— 3242 Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 55,000
 Anchor Length 8 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 7,000
 Top Packer Depth 3229 Tool Weight 2000
 Bottom Packer Depth 3234 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3242 Wt. Pipe Run _____ Drill Collar Run 248
 Mud Wt. 9.1 LCM _____ Vis. 60 WL 8 Drill Pipe Size 4.5 x 14 Ft. Run 297.3
 Blow Description Could not get to bottom - Spud tool - lost mud 40' from bottom

Recovery - Total Feet 60 GIP _____ Ft. in DC 60 Ft. in DP _____
 Rec. 60 Feet of D.M. %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 105 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4800 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1527</u>	PSI	Recorder No. <u>6741</u>	Test <u>1000 900</u>	
(B) First Initial Flow Pressure		PSI	(depth) <u>3235</u>	Jars _____	
(C) First Final Flow Pressure		PSI	Recorder No. <u>13234</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure		PSI	(depth) <u>3239</u>	Circ Sub _____	
(E) Second Initial Flow Pressure		PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure		PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure		PSI	Initial Opening _____	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>1495</u>	PSI	Initial Shut-In _____	Shale Packer _____	

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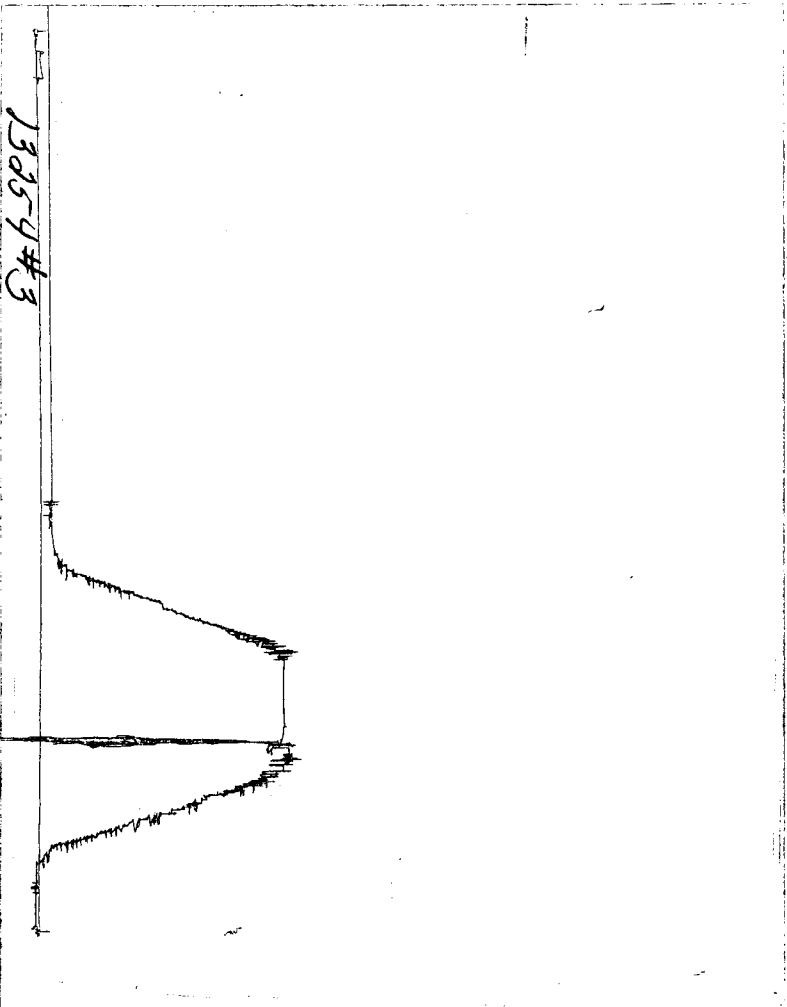
Approved By _____

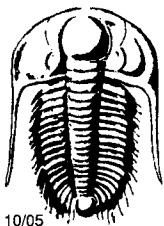
Our Representative Don Rangle

Final Flow _____
 Final Shut-In _____
 T-On Location 20:20
 T-Started 21:15
 T-Open 23:30
 T-Pulled 23:45
 T-Out 02:42
 Ruined Packer _____
 Mileage 168 RT 210
 Sub Total: 1340
 Std. By _____
 Acc. Chg: \$ 1110
 Other: _____
 Total: _____

CHART PAGE

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25944

Test Ticket

Well Name & No. <u>Volkland #1-27</u>	Test No. <u>4</u>	Date <u>1-6-07</u>
Company <u>Rama Operating Co. Inc</u>	Zone Tested <u>Arbuckle</u>	
Address _____	Elevation <u>1722</u> KB <u>1713</u> GL	
Co. Rep / Geo. <u>Jim Mosgrove</u>	Rig <u>Sterling #1</u>	
Location: Sec. <u>27</u> Twp. <u>18</u> Rge. <u>9</u>	Co. <u>Rice</u> State <u>Ks</u>	
Comment: _____	Release date / time: _____	

Interval Tested <u>32.34</u> ————— <u>3242</u>	Initial Str Wt./Lbs. <u>55,000</u>	Unseated Str Wt/Lbs <u>55,000</u>
Anchor Length <u>8</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>89,000</u>
Top Packer Depth <u>3229</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>32.34</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3242</u>	Wt. Pipe Run _____	Drill Collar Run <u>248</u>
Mud Wt. <u>9</u> LCM _____ Vis. <u>48</u> WL <u>8</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>2923</u>
Blow Description <u>Slid Tool 10' - Still 12' off bottom -</u> <u>spud Tool - lost mud</u>		

Recovery - Total Feet <u>120</u>	GIP _____	Ft. in DC <u>120</u>	Ft. in DP _____
Rec. <u>120</u>	Feet of <u>D.M</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>105</u>	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____
RW _____ @ _____	*F _____	Chlorides _____ ppm	Recovery _____ Chlorides <u>4700</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1529</u> PSI	Alpine	Recorder No. <u>6741</u>	Test <u>1100</u>
(B) First Initial Flow Pressure	PSI	(depth) <u>3232</u>	Jars _____	
(C) First Final Flow Pressure	PSI	Recorder No. <u>13254</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure	PSI	(depth) <u>3239</u>	Circ Sub _____	
(E) Second Initial Flow Pressure	PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure	PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure	PSI	Initial Opening	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>1517</u> PSI	Initial Shut-In	Shale Packer _____	

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Approved By _____

Our Representative Dan Rangle

Final Flow	_____
Final Shut-In	_____
T-On Location	<u>10:00</u>
T-Started	<u>11:06</u>
T-Open	<u>13:00</u>
T-Pulled	<u>13:10</u>
T-Out	<u>14:52</u>
Mileage	<u>168 RT 210</u>
Sub Total:	<u>1310</u>
Std. By	_____
Acc. Chg:	_____
Other:	_____
Total:	_____

CHART PAGE

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

