

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

28 17 30 Lane KS

Dowd 1-28C

Start Date: 2007.06.06 @ 11:53:01

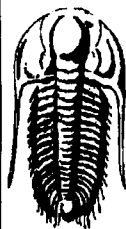
End Date: 2007.06.06 @ 17:28:55

Job Ticket #: 27682 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

Ritchie Exploration

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

Dowd 1-28C

28 17 30 Lane KS

Job Ticket: 27682

DST#: 1

Test Start: 2007.06.06 @ 11:53:01

GENERAL INFORMATION:

Formation: **LKC- E**

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

Time Tool Opened: 14:49:56

Time Test Ended: 17:28:55

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4016.00 ft (KB) To 4038.00 ft (KB) (TVD)**

Total Depth: **4038.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2088.00 ft (KB)**

2078.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6772 **Inside**

Press@RunDepth: **psig @ 4017.00 ft (KB)**

Start Date: **2007.06.06**

End Date:

2007.06.06

Capacity: **7000.00 psig**

Last Calib.: **2007.06.06**

Start Time: **11:53:01**

End Time:

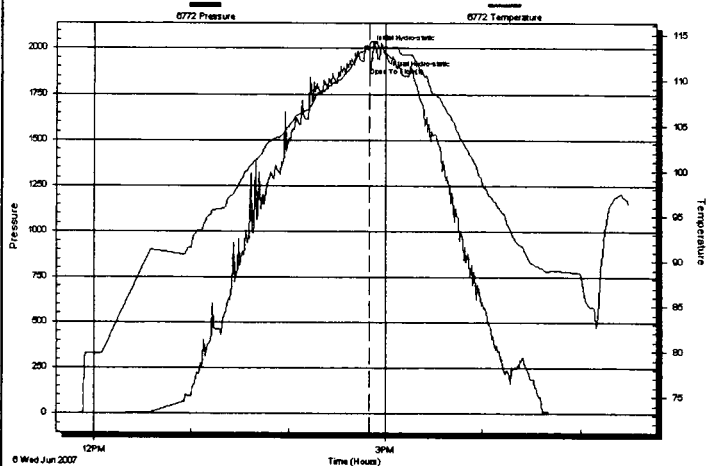
17:28:55

Time On Btm: **2007.06.06 @ 14:49:41**

Time Off Btm: **2007.06.06 @ 14:59:41**

TEST COMMENT: Packers failed at open.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.67	113.59	Initial Hydro-static
1	1848.82	113.93	Open To Flow (1)
10	1978.82	113.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
437.00	100%M	4.41

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27682

DST#: 1

ATTN: Terry Mcleod

Test Start: 2007.06.06 @ 11:53:01

Tool Information

Drill Pipe:	Length: 3823.00 ft	Diameter: 3.80 inches	Volume: 53.63 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose: 69000.00 lb
		Total Volume:	54.56 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4016.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3995.00	
Shut In Tool	5.00			4000.00	
Hydraulic tool	5.00			4005.00	
Safety Joint	2.00			4007.00	
Packer	5.00			4012.00	22.00 Bottom Of Top Packer
Packer	4.00			4016.00	
Stubb	1.00			4017.00	
Recorder	0.00	6772	Inside	4017.00	
Perforations	16.00			4033.00	
Recorder	0.00	7437	Outside	4033.00	
Bullnose	5.00			4038.00	22.00 Bottom Packers & Anchor

Total Tool Length: 44.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27682

DST#: 1

ATTN: Terry Mcleod

Test Start: 2007.06.06 @ 11:53:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
437.00	100%M	4.408

Total Length: 437.00 ft

Total Volume: 4.408 bbl

Num Fluid Samples: 0

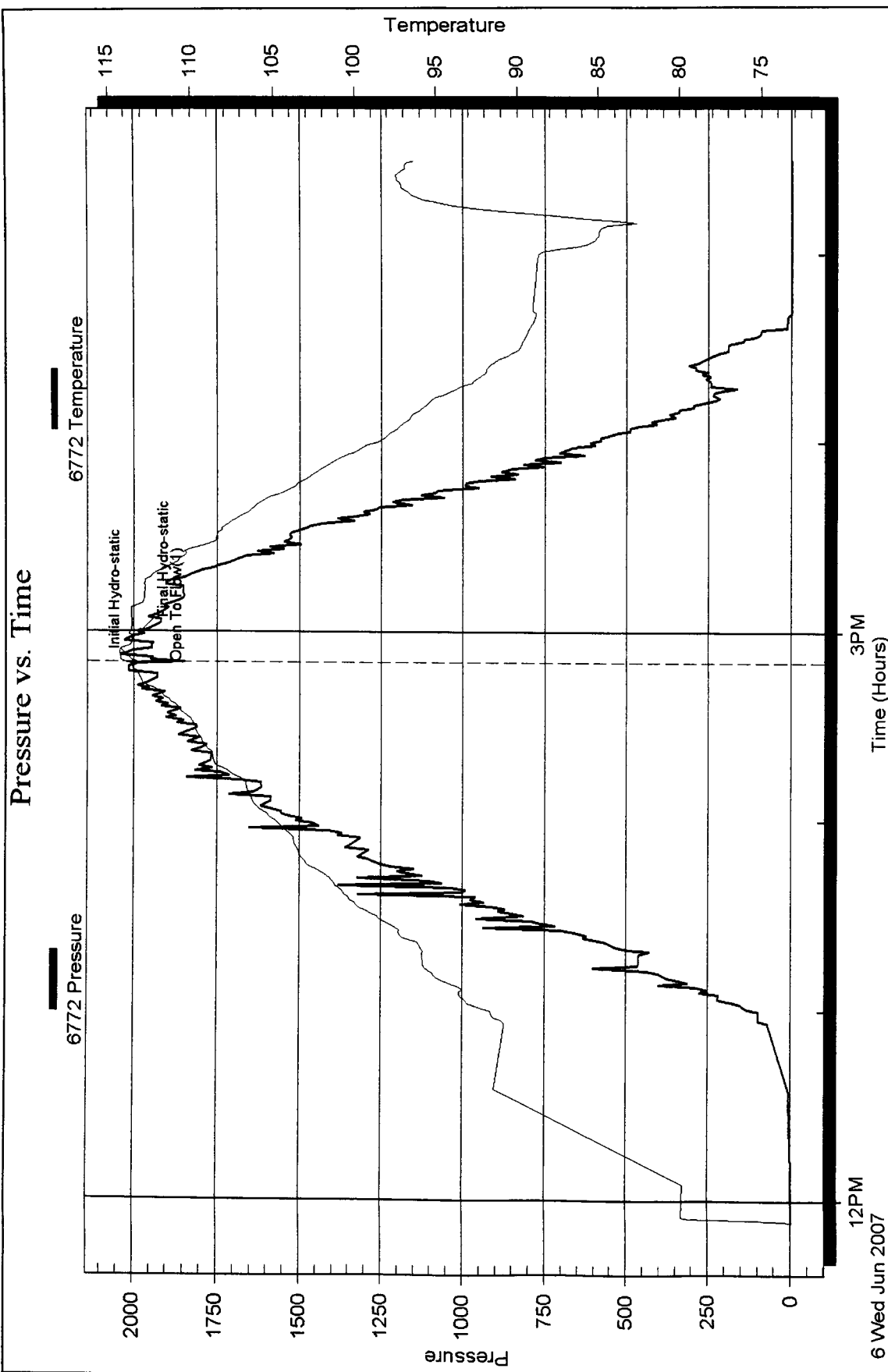
Num Gas Bombs: 0

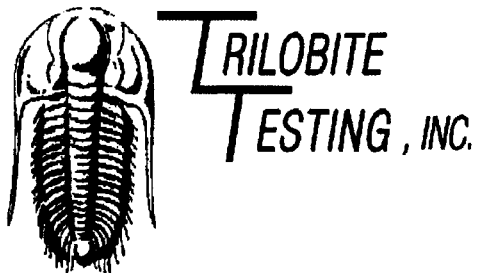
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

28 17 30 Lane KS

Dowd 1-28C

Start Date: 2007.06.06 @ 17:36:46

End Date: 2007.06.07 @ 01:23:55

Job Ticket #: 27683 DST #: 2

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

Ritchie Exploration

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

Dowd 1-28C

28 17 30 Lane KS

Job Ticket: 27683

DST#: 2

Test Start: 2007.06.06 @ 17:36:46

GENERAL INFORMATION:

Formation: **LKC-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:57:26

Time Test Ended: 01:23:55

Interval: **4003.00 ft (KB) To 4038.00 ft (KB) (TVD)**

Total Depth: 4038.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Reference Elevations: 2088.00 ft (KB)

2078.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6772 Inside

Press@RunDepth: 189.36 psig @ 4004.00 ft (KB)

Start Date: 2007.06.06

End Date: 2007.06.07

Start Time: 17:36:46

End Time: 01:23:55

Capacity: 7000.00 psig

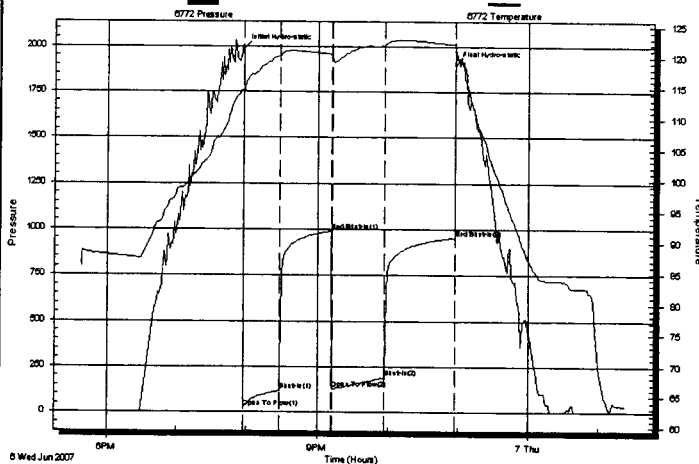
Last Calib.: 2007.06.07

Time On Btm: 2007.06.06 @ 19:57:11

Time Off Btm: 2007.06.06 @ 22:57:40

TEST COMMENT: IF 1/4 blow BOB in 15 min.
IS Surface blow built to 1 in 45 min.
FF BOB in 18 min.
FS Surface blow built to 1 in 60 min.

Pressure vs. Time



PRESSURE SUMMARY

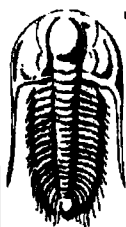
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.70	114.53	Initial Hydro-static
1	21.07	114.21	Open To Flow (1)
31	118.82	120.11	Shut-In(1)
75	989.31	120.47	End Shut-In(1)
76	127.48	119.97	Open To Flow (2)
121	189.36	121.95	Shut-In(2)
181	954.13	122.08	End Shut-In(2)
181	1897.28	122.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	GOCM 5%G 45%O 50%M	0.93
62.00	MCGO 20%G 60%O 20%M	0.87
216.00	GO 15%G 85%O	3.03

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27683

DST#: 2

ATTN: Terry Mcleod

Test Start: 2007.06.06 @ 17:36:46

Tool Information

Drill Pipe:	Length: 3823.00 ft	Diameter: 3.80 inches	Volume: 53.63 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	54.56 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4003.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3982.00	
Shut In Tool	5.00			3987.00	
Hydraulic tool	5.00			3992.00	
Safety Joint	2.00			3994.00	
Packer	5.00			3999.00	22.00 Bottom Of Top Packer
Packer	4.00			4003.00	
Stubb	1.00			4004.00	
Recorder	0.00	6772	Inside	4004.00	
Perforations	29.00			4033.00	
Recorder	0.00	7437	Outside	4033.00	
Bullnose	5.00			4038.00	35.00 Bottom Packers & Anchor
Total Tool Length:		57.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27683

DST#: 2

ATTN: Terry Mcleod

Test Start: 2007.06.06 @ 17:36:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	GOCM 5%G 45%O 50%M	0.929
62.00	MCGO 20%G 60%O 20%M	0.870
216.00	GO 15%G 85%O	3.030

Total Length: 467.00 ft

Total Volume: 4.829 bbl

Num Fluid Samples: 0

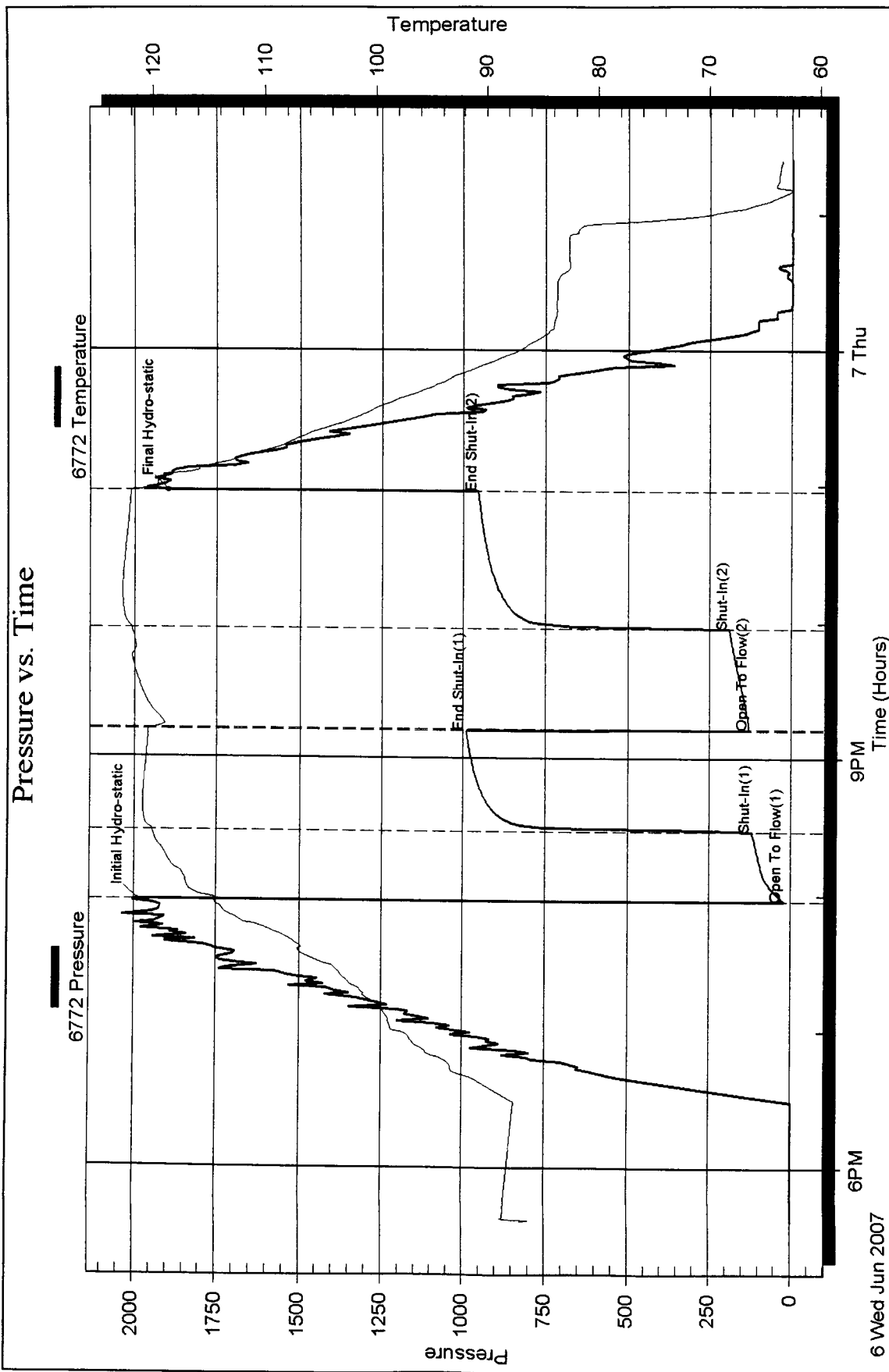
Num Gas Bombs: 0

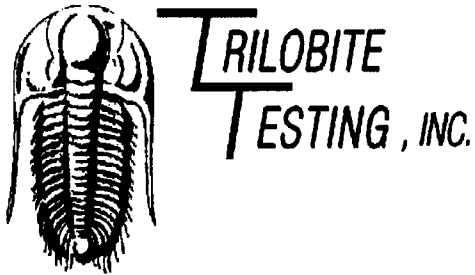
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

28 17 30 Lane KS

Dowd 1-28C

Start Date: 2007.06.07 @ 14:44:03

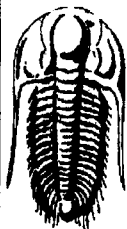
End Date: 2007.06.07 @ 22:52:27

Job Ticket #: 27684 DST #: 3

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DRILL STEM TEST REPORT

Ritchie Exploration

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

Dowd 1-28C

28 17 30 Lane KS

Job Ticket: 27684

DST#: 3

Test Start: 2007.06.07 @ 14:44:03

GENERAL INFORMATION:

Formation: **LKC-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:54:58

Time Test Ended: 22:52:27

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4149.00 ft (KB) To 4180.00 ft (KB) (TVD)**

Total Depth: 4180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2088.00 ft (KB)

2078.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6772

Inside

Press@RunDepth: 153.01 psig @ 4150.00 ft (KB)

Start Date: 2007.06.07

End Date:

2007.06.07

Capacity: 7000.00 psig

Last Calib.: 2007.06.07

Start Time: 14:44:03

End Time:

22:52:27

Time On Btm: 2007.06.07 @ 16:54:43

Time Off Btm: 2007.06.07 @ 20:25:27

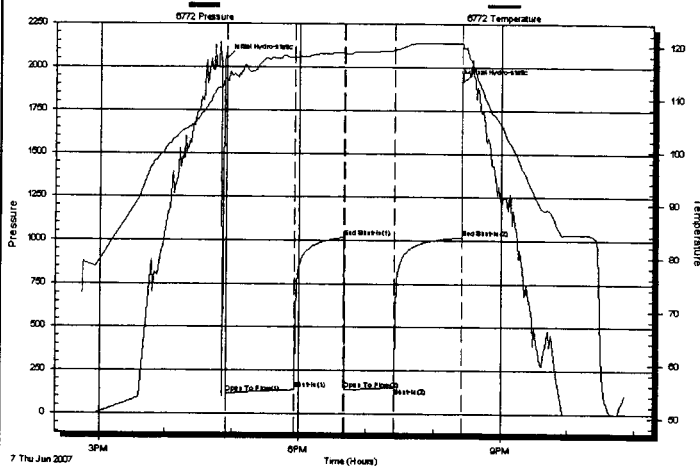
TEST COMMENT: IF Packers failed on first open. Surface blow built to 3 in 60 min.

IS No return

FF Surface blow built to 1/2 in 45 min.

FS No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.89	113.96	Initial Hydro-static
1	115.74	113.43	Open To Flow (1)
62	138.79	117.82	Shut-In (1)
106	1015.85	118.81	End Shut-In (1)
106	140.06	118.58	Open To Flow (2)
151	153.01	119.28	Shut-In (2)
211	1016.77	120.60	End Shut-In (2)
211	1912.15	120.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	MCW 60%W 40%M	0.93
92.00	100%M	1.29

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27684

DST#: 3

ATTN: Terry Mcleod

Test Start: 2007.06.07 @ 14:44:03

Tool Information

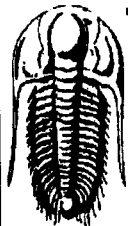
Drill Pipe:	Length: 3946.00 ft	Diameter: 3.80 inches	Volume: 55.35 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 56.28 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4149.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	53.00 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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Stubb	1.00			4128.00	
Shut In Tool	5.00			4133.00	
Hydraulic tool	5.00			4138.00	
Safety Joint	2.00			4140.00	
Packer	5.00			4145.00	22.00 Bottom Of Top Packer
Packer	4.00			4149.00	
Stubb	1.00			4150.00	
Recorder	0.00	6772	Inside	4150.00	
Perforations	25.00			4175.00	
Recorder	0.00	7437	Outside	4175.00	
Bullnose	5.00			4180.00	31.00 Bottom Packers & Anchor

Total Tool Length: 53.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27684

DST#: 3

ATTN: Terry Mcleod

Test Start: 2007.06.07 @ 14:44:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	MCW 60%W 40%M	0.929
92.00	100%M	1.291

Total Length: 281.00 ft

Total Volume: 2.220 bbl

Num Fluid Samples: 0

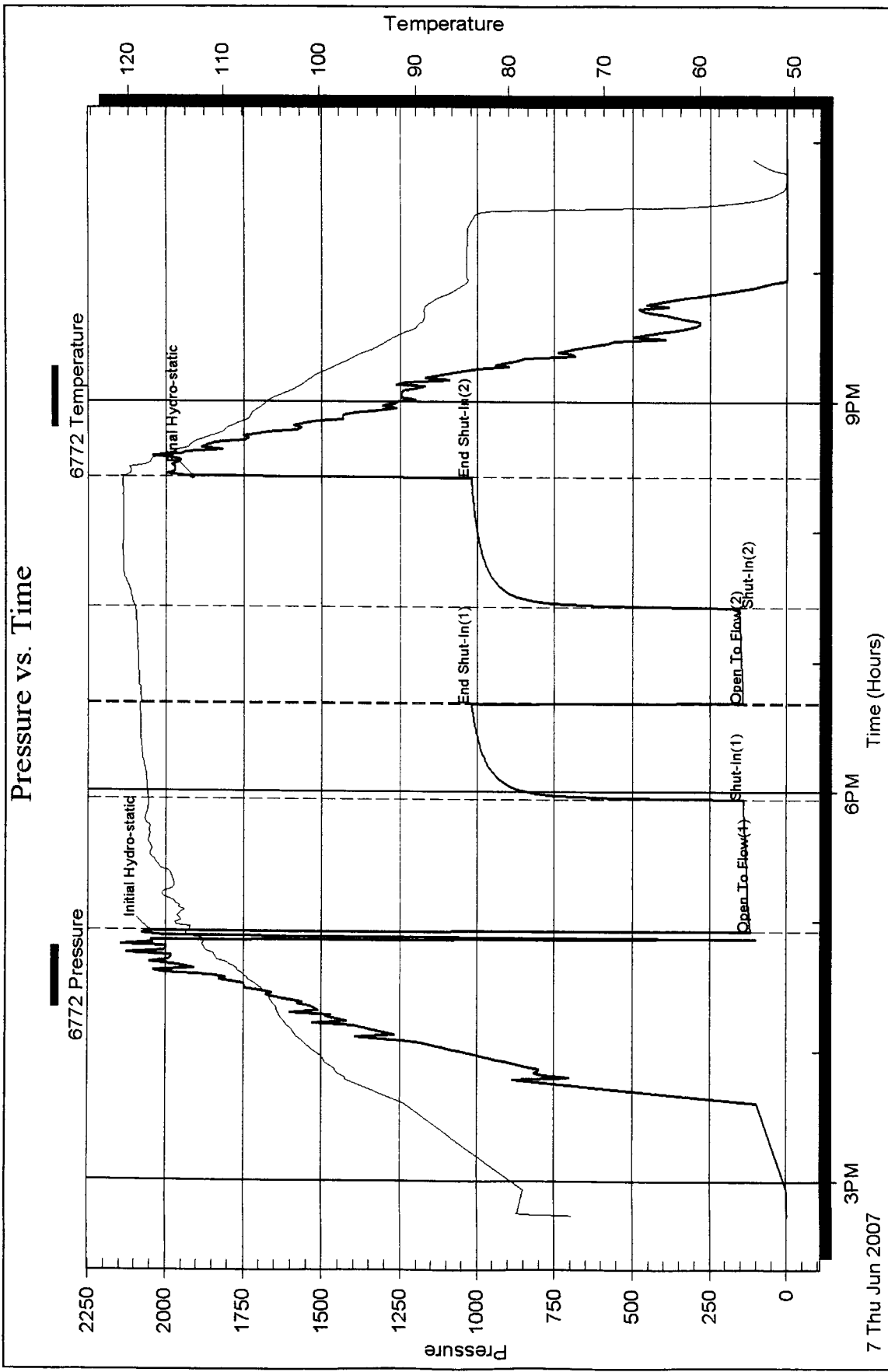
Num Gas Bombs: 0

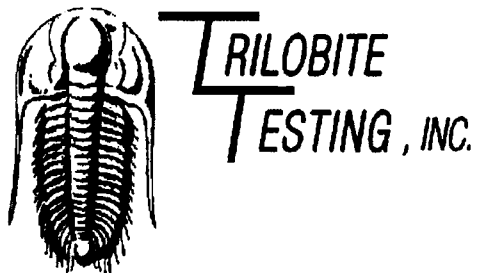
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

28 17 30 Lane KS

Dowd 1-28C

Start Date: 2007.06.08 @ 05:58:27

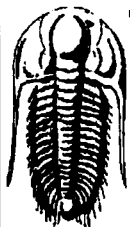
End Date: 2007.06.08 @ 13:28:51

Job Ticket #: 27685 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

Ritchie Exploration

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

Dowd 1-28C

28 17 30 Lane KS

Job Ticket: 27685

DST#: 4

Test Start: 2007.06.08 @ 05:58:27

GENERAL INFORMATION:

Formation: **LKC- J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:06:37

Time Test Ended: 13:28:51

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4185.00 ft (KB) To 4210.00 ft (KB) (TVD)**

Total Depth: 4210.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2088.00 ft (KB)

2078.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6772

Inside

Press@RunDepth: 64.68 psig @ 4186.00 ft (KB)

Start Date: 2007.06.08

End Date:

2007.06.08

Capacity: 7000.00 psig

Last Calib.: 2007.06.08

Start Time: 05:58:27

End Time:

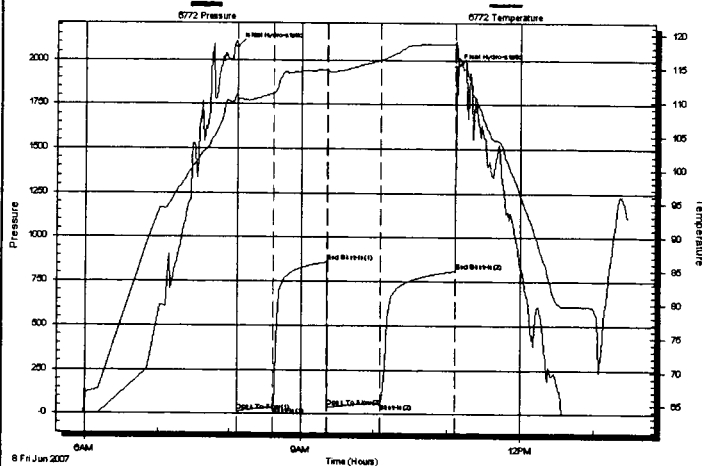
13:28:51

Time On Btm: 2007.06.08 @ 08:06:22

Time Off Btm: 2007.06.08 @ 11:07:06

TEST COMMENT: IF Surface blow built to 2 in 30 min.
IS No return
FF Surface blow built to 1 in 45 min.
FS No return

Pressure vs. Time



PRESSURE SUMMARY

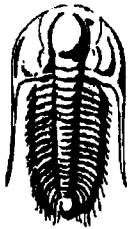
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.66	111.30	Initial Hydro-static
1	12.62	109.99	Open To Flow (1)
30	37.75	111.26	Shut-In (1)
75	859.89	114.75	End Shut-In (1)
75	40.40	114.49	Open To Flow (2)
120	64.68	116.16	Shut-In (2)
181	811.23	118.57	End Shut-In (2)
181	1960.52	119.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	WCM Oil spots 30%W 70%M	0.61

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27685

DST#: 4

ATTN: Terry Mcleod

Test Start: 2007.06.08 @ 05:58:27

Tool Information

Drill Pipe:	Length: 3979.00 ft	Diameter: 3.80 inches	Volume: 55.81 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose:	85000.00 lb
		Total Volume:	56.74 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4185.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	47.00 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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Stubb	1.00			4164.00	
Shut In Tool	5.00			4169.00	
Hydraulic tool	5.00			4174.00	
Safety Joint	2.00			4176.00	
Packer	5.00			4181.00	22.00 Bottom Of Top Packer
Packer	4.00			4185.00	
Stubb	1.00			4186.00	
Recorder	0.00	6772	Inside	4186.00	
Perforations	19.00			4205.00	
Recorder	0.00	7437	Outside	4205.00	
Bullnose	5.00			4210.00	25.00 Bottom Packers & Anchor

Total Tool Length: 47.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27685

DST#: 4

ATTN: Terry Mcleod

Test Start: 2007.06.08 @ 05:58:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

22000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	WCM Oil spots 30%W 70%M	0.610

Total Length: 124.00 ft

Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

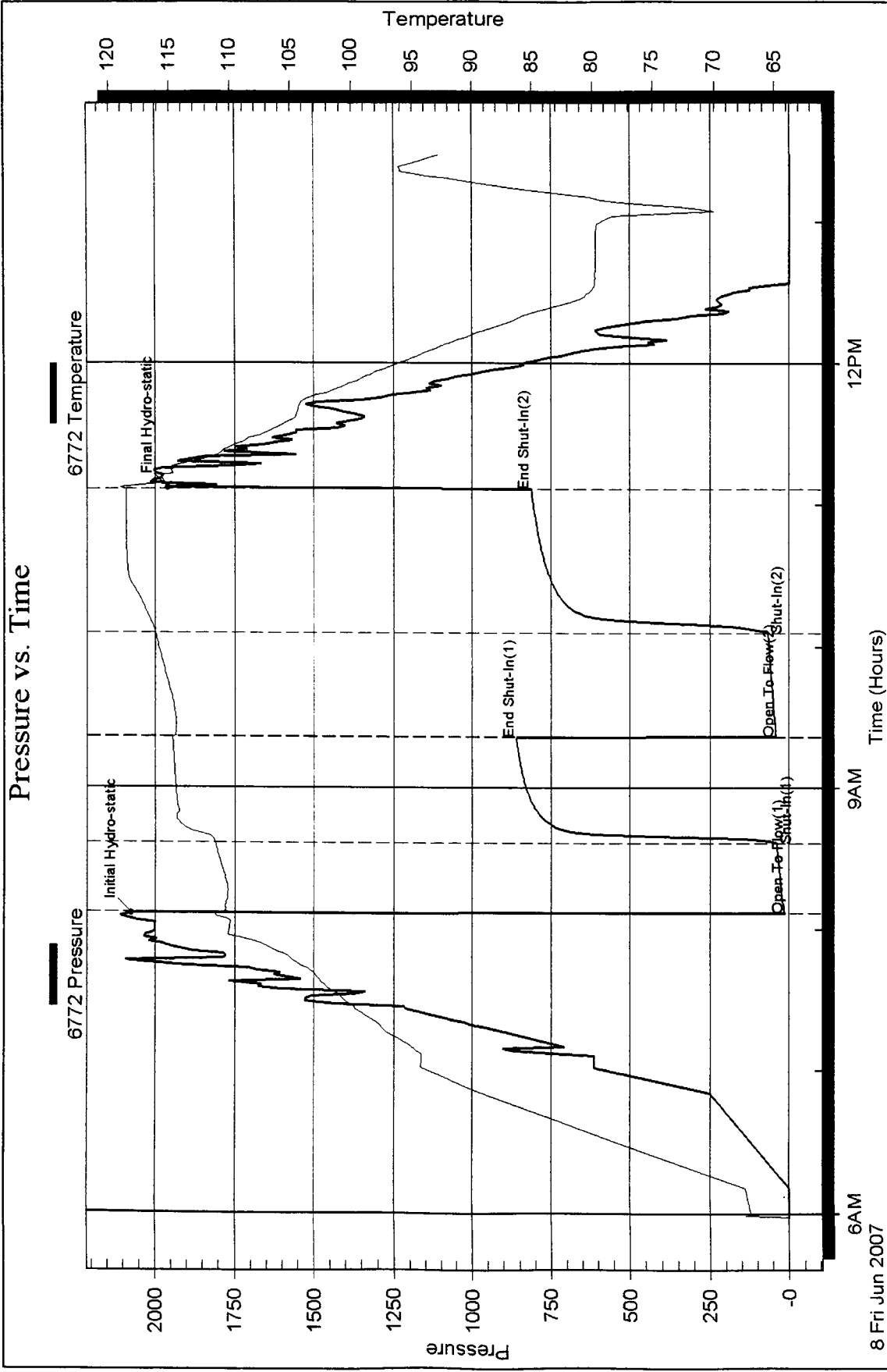
Serial #:

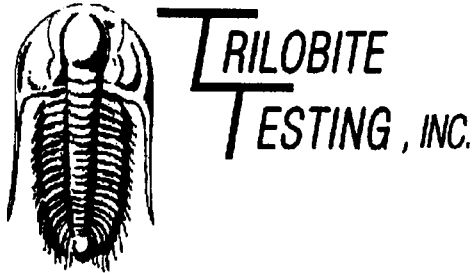
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

28 17 30 Lane KS

Dowd 1-28C

Start Date: 2007.06.09 @ 10:32:57

End Date: 2007.06.09 @ 18:44:21

Job Ticket #: 27686 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

Dowd 1-28C

28 17 30 Lane KS

Job Ticket: 27686

DST#: 5

Test Start: 2007.06.09 @ 10:32:57

GENERAL INFORMATION:

Formation: **Altamont**

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

Time Tool Opened: 12:40:22

Time Test Ended: 18:44:21

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4355.00 ft (KB) To 4375.00 ft (KB) (TVD)**

Total Depth: **4375.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2088.00 ft (KB)**

2078.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **767.23 psig @ 4356.00 ft (KB)**

Start Date: **2007.06.09**

End Date:

2007.06.09

Capacity: **7000.00 psig**

Last Calib.: **2007.06.09**

Start Time: **10:32:57**

End Time:

18:44:21

Time On Btm: **2007.06.09 @ 12:40:07**

Time Off Btm: **2007.06.09 @ 15:25:36**

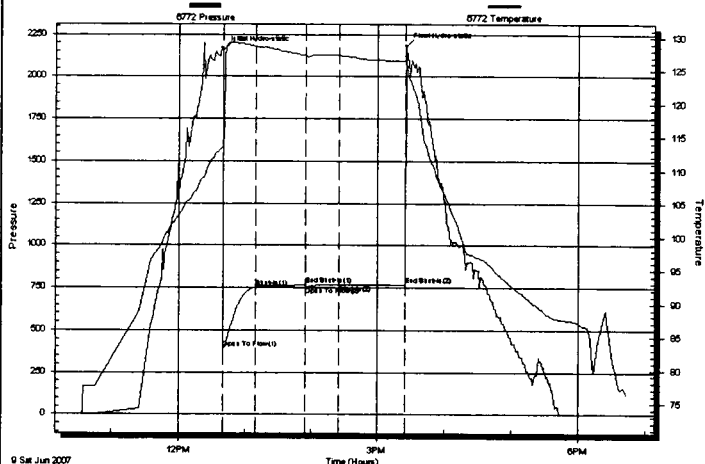
TEST COMMENT: **IF BOB in 30 sec.**

IS Surface blow built to 1 in 45 min.

FF 1/4 blow built to 4 1/2 in 30 min.

FS Surface blow built to 2 in 60 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.01	113.42	Initial Hydro-static
1	392.27	113.15	Open To Flow (1)
30	751.46	128.64	Shut-In (1)
75	765.59	127.30	End Shut-In (1)
75	753.65	127.29	Open To Flow (2)
105	767.23	127.30	Shut-In (2)
165	770.27	126.43	End Shut-In (2)
166	2180.85	126.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	MCW 95%W 5%M	0.93
620.00	OCMW 5%O 85%W 10%M	8.70
310.00	WCGO 30%G 60%O 10%W	4.35
496.00	WCGO 20%G 50%O 30%W	6.96
191.00	MCGO 20%M 75%O 5%M	2.68

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27686

DST#: 5

ATTN: Terry Mcleod

Test Start: 2007.06.09 @ 10:32:57

Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose: 86000.00 lb
		Total Volume: 59.45 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4355.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4334.00	
Shut In Tool	5.00			4339.00	
Hydraulic tool	5.00			4344.00	
Safety Joint	2.00			4346.00	
Packer	5.00			4351.00	22.00 Bottom Of Top Packer
Packer	4.00			4355.00	
Stubb	1.00			4356.00	
Recorder	0.00	6772	Inside	4356.00	
Perforations	14.00			4370.00	
Recorder	0.00	7437	Outside	4370.00	
Bullnose	5.00			4375.00	20.00 Bottom Packers & Anchor
Total Tool Length:		42.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27686

DST#: 5

ATTN: Terry Mcleod

Test Start: 2007.06.09 @ 10:32:57

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.77 in³

Resistivity: 0.00 ohm.m

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

34 deg API

Water Salinity:

49000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	MCW 95%W 5%M	0.929
620.00	OCMV 5%O 85%W 10%M	8.697
310.00	WCGO 30%G 60%O 10%W	4.348
496.00	WCGO 20%G 50%O 30%W	6.958
191.00	MCGO 20%M 75%O 5%M	2.679

Total Length: 1806.00 ft

Total Volume: 23.611 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

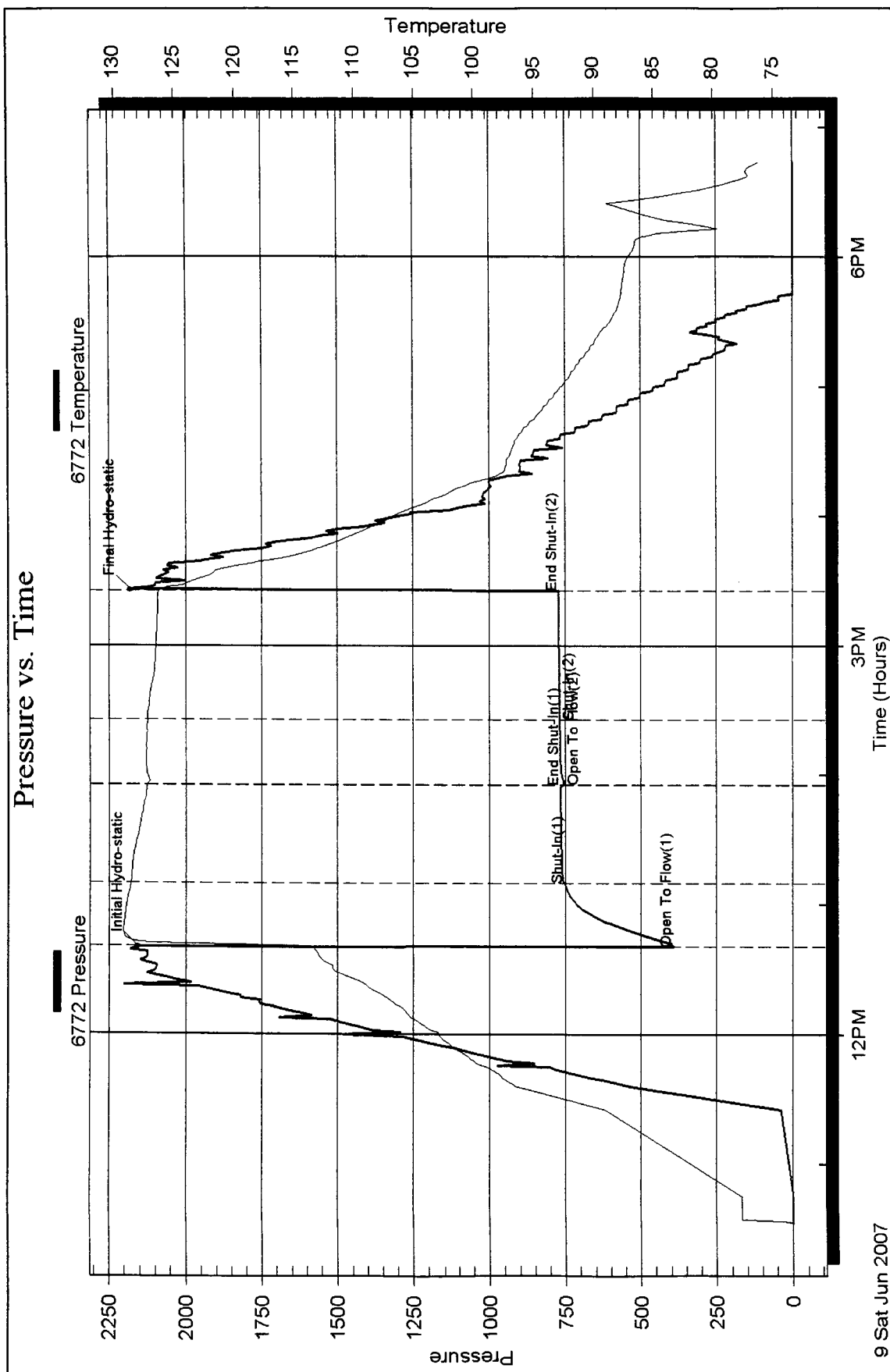
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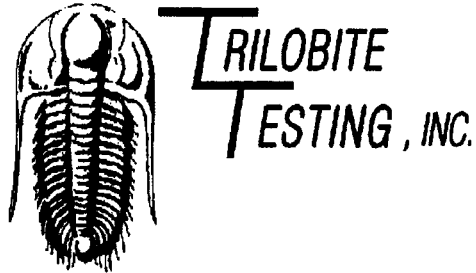
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

28 17 30 Lane KS

Dowd 1-28C

Start Date: 2007.06.10 @ 15:05:36

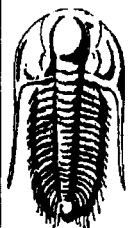
End Date: 2007.06.10 @ 21:36:15

Job Ticket #: 27687 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration

PO Box 783188
Wichita KS 67278

ATTN: Terry Mcleod

Dowd 1-28C

28 17 30 Lane KS

Job Ticket: 27687

DST#: 6

Test Start: 2007.06.10 @ 15:05:36

GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 17:06:16

Time Test Ended: 21:36:15

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4479.00 ft (KB) To 4550.00 ft (KB) (TVD)**

Total Depth: **4550.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2088.00 ft (KB)**

2078.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6772 **Inside**

Press@RunDepth: **41.04 psig @ 4480.00 ft (KB)**

Start Date: **2007.06.10**

End Date:

2007.06.10

Start Time: **15:05:36**

End Time:

21:36:15

Capacity: **7000.00 psig**

Last Calib.: **2007.06.10**

Time On Btm: **2007.06.10 @ 17:06:01**

Time Off Btm: **2007.06.10 @ 19:06:16**

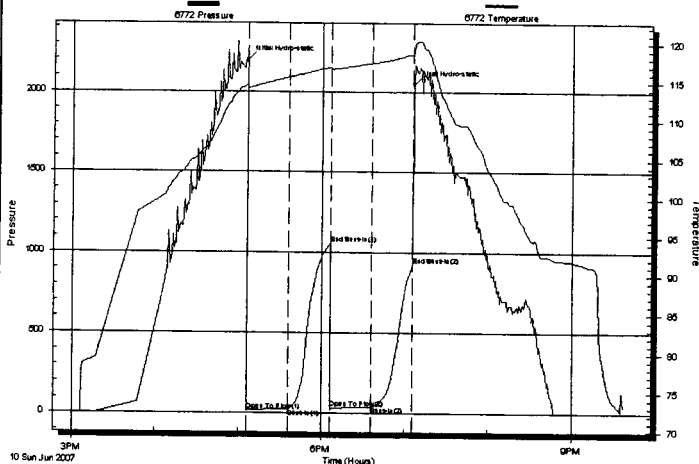
TEST COMMENT: IF 1/4 blow died in 20 min.

IS No return

FF No blow

FS No return

Pressure vs. Time



PRESSURE SUMMARY

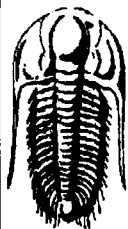
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.82	114.62	Initial Hydro-static
1	16.35	114.11	Open To Flow (1)
30	27.93	115.63	Shut-In(1)
60	1050.75	116.92	End Shut-In(1)
61	32.64	116.68	Open To Flow (2)
91	41.04	117.44	Shut-In(2)
120	921.23	118.56	End Shut-In(2)
121	2047.92	118.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM 40%O 60%M	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

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27687

DST#: 6

ATTN: Terry Mcleod

Test Start: 2007.06.10 @ 15:05:36

Tool Information

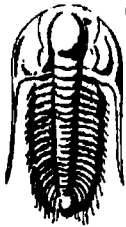
Drill Pipe:	Length: 4291.00 ft	Diameter: 3.80 inches	Volume: 60.19 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	61.12 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4479.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	71.00 ft				
Tool Length:	93.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4458.00	
Shut In Tool	5.00			4463.00	
Hydraulic tool	5.00			4468.00	
Safety Joint	2.00			4470.00	
Packer	5.00			4475.00	22.00 Bottom Of Top Packer
Packer	4.00			4479.00	
Stubb	1.00			4480.00	
Recorder	0.00	6772	Inside	4480.00	
Perforations	2.00			4482.00	
Change Over Sub	1.00			4483.00	
Drill Pipe	61.00			4544.00	
Change Over Sub	1.00			4545.00	
Recorder	0.00	7437	Outside	4545.00	
Bullnose	5.00			4550.00	71.00 Bottom Packers & Anchor

Total Tool Length: 93.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Dowd 1-28C

PO Box 783188
Wichita KS 67278

28 17 30 Lane KS

Job Ticket: 27687

DST#: 6

ATTN: Terry Mcleod

Test Start: 2007.06.10 @ 15:05:36

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OCM 40%O 60%M	0.305

Total Length: 62.00 ft

Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

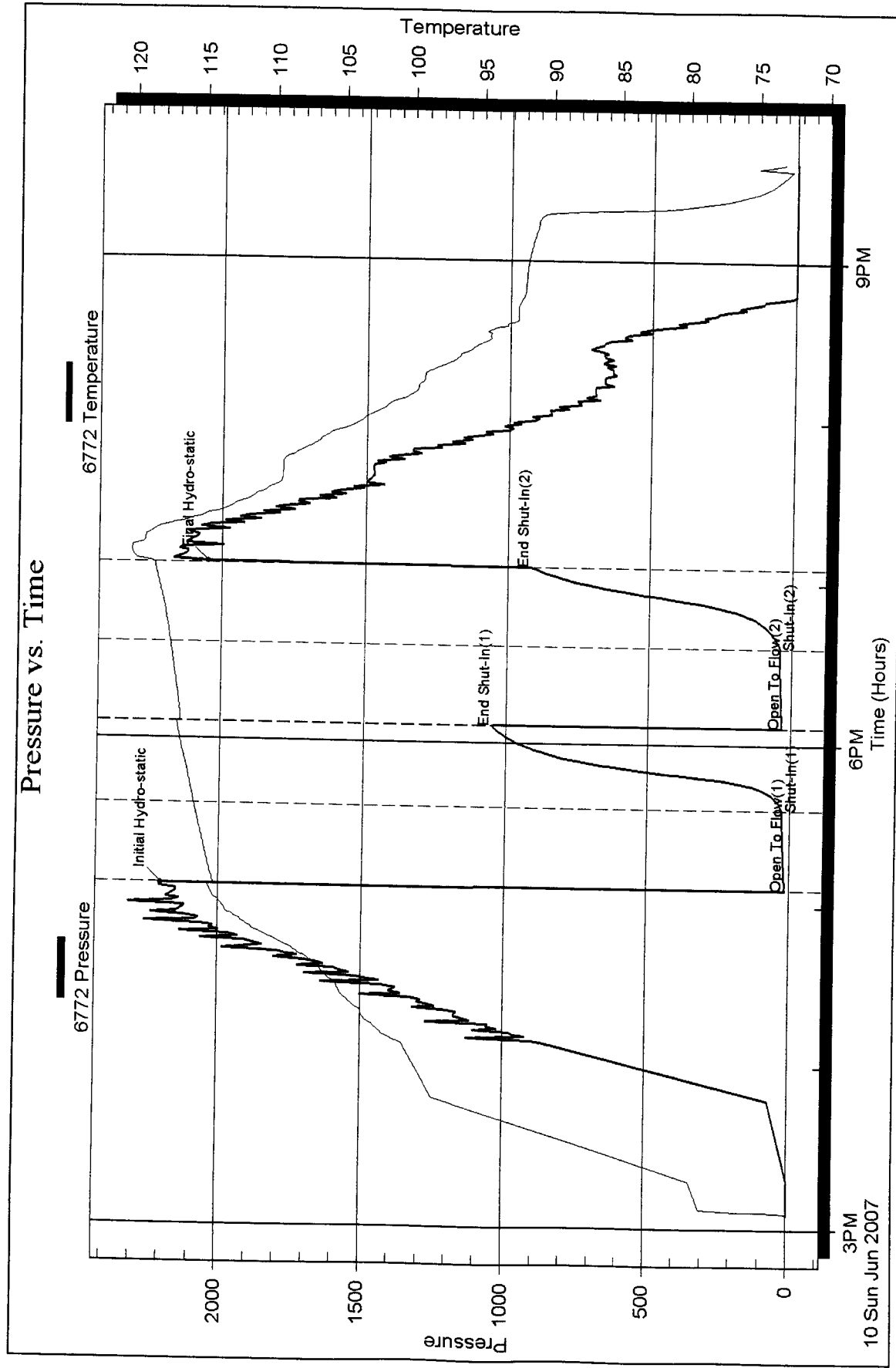
Serial #: 6772

Inside

Ritchie Exploration

28 17 30 Lane KS

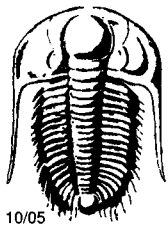
DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 27687

Printed: 2007.06.11 @ 12:07:16 Page 5



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27682

10250

Test Ticket

Well Name & No. <u>Dowd 1-28L</u>	Test No. <u>1</u>	Date <u>6-6-07</u>
Company <u>Ritchie Exploration</u>	Zone Tested <u>LKC-E</u>	
Address <u>P.O. Box 783188 Wichita, KS 67278</u>	Elevation <u>2088</u> KB <u>2088</u> GL	
Co. Rep / Geo. <u>Terry McLeod</u>	Rig <u>Martin 21</u>	
Location: Sec. <u>28</u> Twp. <u>17S</u> Rge. <u>30W</u>	Co. <u>Lane</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>4016</u>	<u>4038</u>	Initial Str Wt./Lbs. <u>68,000</u>	Unseated Str Wt./Lbs. <u>69,000</u>
Anchor Length _____	<u>22</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>69,000</u>
Top Packer Depth _____	<u>4011</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth _____	<u>4016</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth _____	<u>4038</u>	Wt. Pipe Run _____	Drill Collar Run <u>189</u>
Mud Wt. <u>9.3</u> LCM <u>2</u> Vis. <u>58</u> WL <u>7.2</u>		Drill Pipe Size <u>4 1/2 x H</u>	Ft. Run <u>3823</u>
Blow Description <u>Packers Failed 94 open.</u>			

Recovery - Total Feet <u>437</u>	GIP <u>—</u>	Ft. in DC <u>189</u>	Ft. in DP <u>248</u>
Rec. <u>437</u>	Feet of <u>mud</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>113</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW _____	@ _____	°F Chlorides _____	ppm Recovery _____
		Chlorides <u>1700</u>	ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>2076</u> PSI	Alpine	Recorder No. <u>6772</u>	Test <u>X</u> <u>1000.00</u>
(B) First Initial Flow Pressure	<u>1848</u> PSI		(depth) <u>4017</u>	Jars _____
(C) First Final Flow Pressure	_____ PSI		Recorder No. <u>7437</u>	Safety Jt. <u>X</u> <u>75.00</u>
(D) Initial Shut-In Pressure	_____ PSI		(depth) <u>4037</u>	Circ Sub <u>X</u> <u>N/C</u>
(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>2052</u> PSI	Initial Shut-In	_____	Shale Packer _____

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Approved By _____

Our Representative _____

Final Flow	_____
Final Shut-In	_____
T-On Location	<u>10:15</u>
T-Started	<u>11:52</u>
T-Open	<u>14:50</u>
T-Pulled	<u>15:00</u>
T-Out	<u>17:30</u>

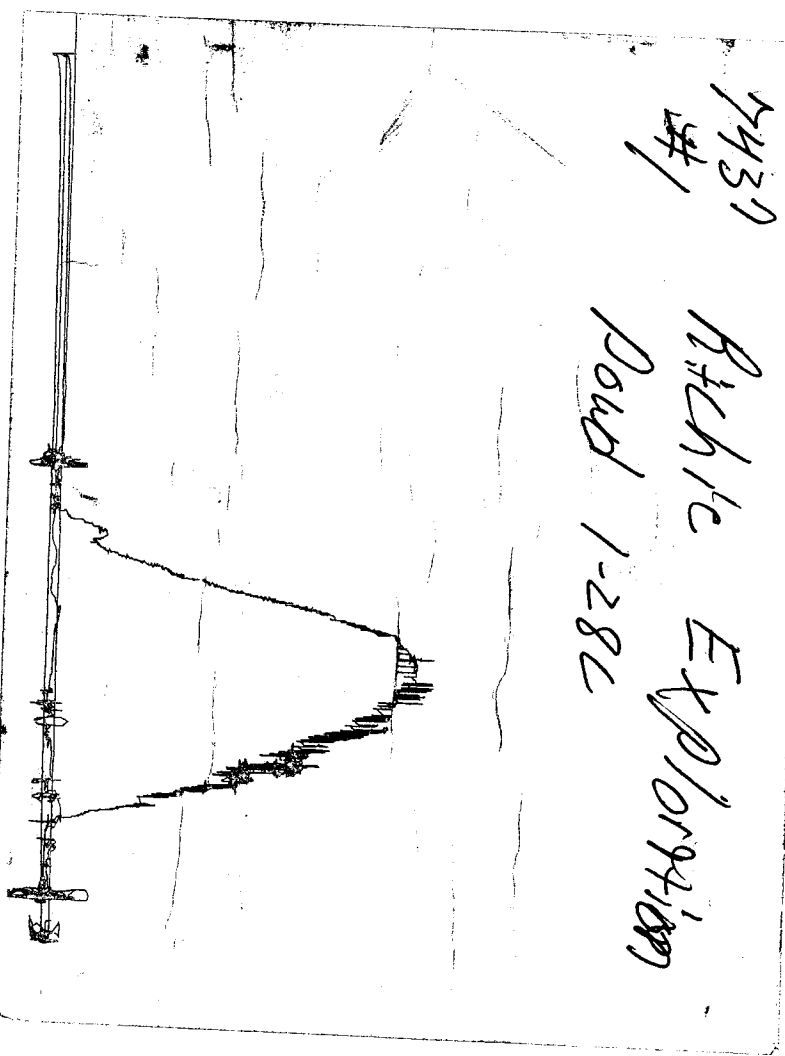
Ruined Packer	_____
Mileage	<u>40-50.00</u>
Sub Total:	_____
Std. By	_____
Acc. Chg:	_____
Other:	<u>A 1825</u>
Total:	_____

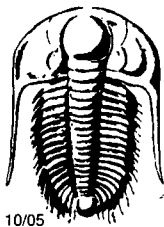
CHART PAGE

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

7437
#1

Richie Exploration
Dowd 1-28c





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27683

Test Ticket

Well Name & No.	<u>Dowd 1-28C</u>	Test No.	<u>2</u>	Date	<u>6-6-07</u>
Company	<u>Ritchie Exploration</u>	Zone Tested	<u>44C - E</u>		
Address	<u>P.O. Box 783188 Wichita, KS 67278</u>	Elevation	<u>2088</u>	KB	<u>2078</u>
Co. Rep / Geo.	<u>Terry McLeod</u>	Rig	<u>Murfin 21</u>	GL	
Location: Sec.	<u>28</u>	Twp.	<u>17S</u>	Rge.	<u>30W</u>
		Co.	<u>Leone</u>	State	<u>KS</u>
Comment:	<u>Charge Mileage for Shale Packer</u>	Release date / time:			

Interval Tested	<u>4003</u>	<u>4038</u>	Initial Str Wt./Lbs.	<u>68,000</u>	Unseated Str Wt./Lbs.	<u>69,000</u>
Anchor Length	<u>35</u>		Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>80,000</u>
Top Packer Depth	<u>3998</u>		Tool Weight	<u>1500</u>		
Bottom Packer Depth	<u>4003</u>		Hole Size 7 7/8"	<u>✓</u>	Rubber Size 6 3/4"	<u>✓</u>
Total Depth	<u>4038</u>		Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>189</u>
Mud Wt.	<u>9.3</u>	LCM <u>2</u>	Vis. <u>58</u>	WL <u>7.2</u>	Drill Pipe Size	<u>4 1/2 x H</u>
Blow Description	<u>IF: 1/4 blow built BoB in 15 min.</u>					
	<u>IS: Surface built to 1 in 45 min.</u>					
	<u>FF: BoB in 18 min.</u>					
	<u>FS: Surface blow built to 1 in 60 min.</u>					

Recovery - Total Feet	<u>467</u>	GIP	<u>92</u>	Ft. in DC	<u>189</u>	Ft. in DP	<u>278</u>
Rec.	<u>216</u>	Feet of	<u>90</u>	<u>15</u> %gas	<u>85</u> %oil	%water	%mud
Rec.	<u>62</u>	Feet of	<u>MC90</u>	<u>20</u> %gas	<u>60</u> %oil	%water <u>20</u>	%mud
Rec.	<u>189</u>	Feet of	<u>90CM</u>	<u>5</u> %gas	<u>45</u> %oil	%water <u>50</u>	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
BHT	<u>122</u>	°F Gravity	<u>32</u>	°API D @	<u>60</u>	°F Corrected Gravity	<u>32</u>
RW	<u>—</u>	@	<u>—</u>	°F Chlorides	<u>—</u>	ppm Recovery	<u>—</u>
				Chlorides	<u>1700</u>	ppm System	

(A) Initial Hydrostatic Mud	<u>2059</u>	PSI	Recorder No.	<u>6772</u>	Test	<u>1200.00</u>
(B) First Initial Flow Pressure	<u>21</u>	PSI	(depth)	<u>4004</u>	Jars	
(C) First Final Flow Pressure	<u>118</u>	PSI	Recorder No.	<u>7437</u>	Safety Jt.	<u>75.00</u>
(D) Initial Shut-In Pressure	<u>989</u>	PSI	(depth)	<u>4037</u>	Circ Sub	<u>21/C</u>
(E) Second Initial Flow Pressure	<u>127</u>	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	<u>189</u>	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	<u>954</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>1897</u>	PSI	Initial Shut-In	<u>45</u>	Shale Packer	<u>250.00</u>
			Final Flow	<u>45</u>	Ruined Packer	<u>280.00</u>
			Final Shut-In	<u>60</u>	Mileage	<u>40 — 50.00</u>
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.			T-On Location	<u>17:30</u>	Sub Total:	
			T-Started	<u>17:36</u>	Std. By	
			T-Open	<u>19:57</u>	Acc. Chg:	<u>1855</u>
			T-Pulled	<u>22:57</u>	Other:	
			T-Out	<u>1:25</u>	Total:	

Approved By

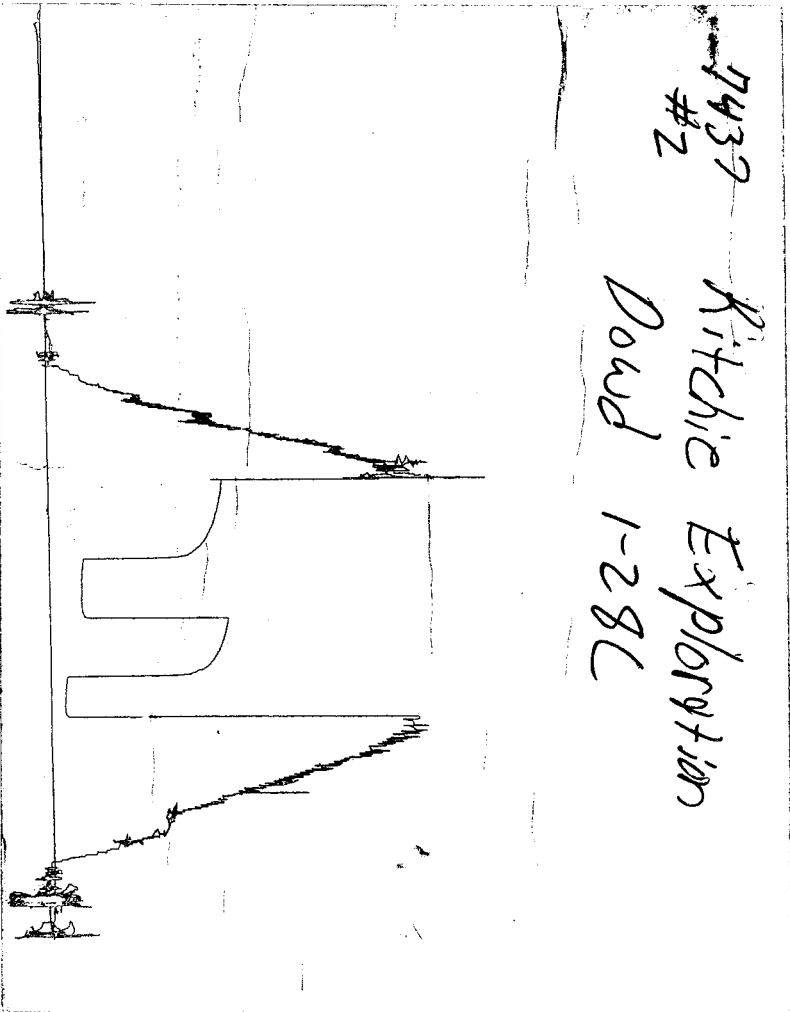
Our Representative

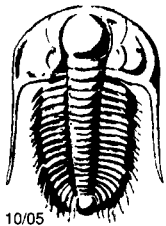
CHART PAGE

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

7437
#2

Kitchie Exploration
Dowd 1-28C





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27684

Test Ticket

Well Name & No. <u>Dowd 1-28C</u>	Test No. <u>3</u>	Date <u>6-7-07</u>
Company <u>Ritchie Exploration</u>	Zone Tested <u>LKC-I</u>	
Address _____	Elevation <u>2088</u> KB <u>2078</u> GL	
Co. Rep / Geo. <u>Terry Mcleod</u>	Rig <u>Murfin #21</u>	
Location: Sec. <u>28</u> Twp. <u>17S</u> Rge. <u>30W</u>	Co. <u>LANE</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>4149</u>	<u>4180</u>	Initial Str Wt./Lbs. <u>68,000</u>	Unseated Str Wt./Lbs. <u>68,000</u>
Anchor Length _____	<u>31</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>170,000</u>
Top Packer Depth _____	<u>4144</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth _____	<u>4149</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth _____	<u>4180</u>	Wt. Pipe Run _____	Drill Collar Run <u>189</u>
Mud Wt. <u>9.4</u> LCM <u>2</u> Vis. <u>54</u> WL <u>8.0</u>		Drill Pipe Size <u>4 1/2 x H</u>	Ft. Run <u>3946</u>
Blow Description <u>IF: Packer failed on first open. Surface blow built to 3 in 60 min. IS: No return.</u>			
<u>FF: Surface blow built to 1/2 in 45 min.</u>			
<u>FS: No return.</u>			

Recovery - Total Feet <u>281</u>	GIP <u>—</u>	Ft. in DC <u>189</u>	Ft. in DP <u>92</u>
Rec. <u>92</u>	Feet of <u>mud</u>	%gas _____	%oil _____ %water <u>100</u> %mud _____
Rec. <u>189</u>	Feet of <u>MCW</u>	%gas _____	%oil <u>60</u> %water <u>40</u> %mud _____
Rec. _____	Feet of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet of _____	%gas _____	%oil _____ %water _____ %mud _____
BHT <u>120</u>	°F Gravity <u>—</u>	°API D @ <u>—</u>	°F Corrected Gravity <u>—</u> °API _____
RW <u>.29</u> @ <u>55</u>	°F Chlorides <u>30,000</u> ppm Recovery <u>30000</u>	Chlorides <u>2400</u> ppm System	

(A) Initial Hydrostatic Mud	<u>2146</u> PSI	Recorder No. <u>6772</u>	Test x <u>1200.00</u>
(B) First Initial Flow Pressure	<u>115</u> PSI	(depth) <u>4150</u>	Jars _____
(C) First Final Flow Pressure	<u>138</u> PSI	Recorder No. <u>7437</u>	Safety Jt. <u>75.00</u>
(D) Initial Shut-In Pressure	<u>1015</u> PSI	(depth) <u>4179</u>	Circ Sub <u>N/L</u>
(E) Second Initial Flow Pressure	<u>140</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>153</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1016</u> PSI	Initial Opening <u>60</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2009</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____

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Approved By Terry Mcleod

Our Representative [Signature]

Final Flow	<u>45</u>
Final Shut-In	<u>60</u>
T-On Location	<u>14:00</u>
T-Started	<u>14:43</u>
T-Open	<u>16:54</u>
T-Pulled	<u>20:24</u>
T-Out	<u>22:55</u>

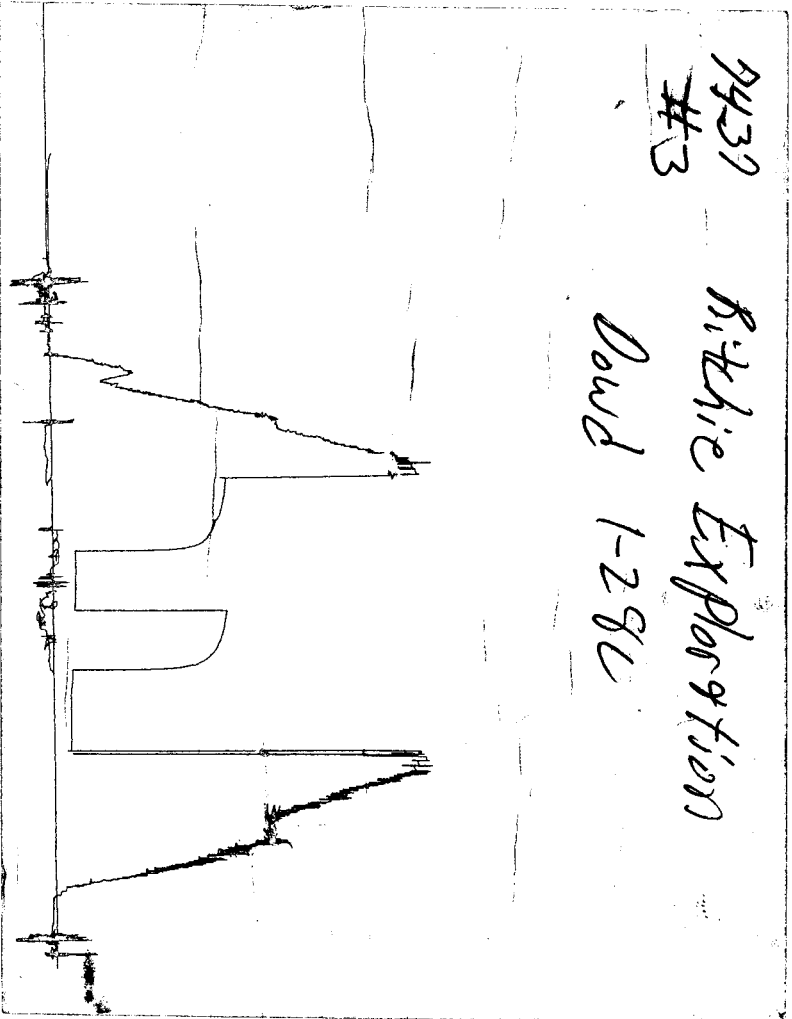
Ruined Packer	_____
Mileage	<u>40-50.00</u>
Sub Total:	_____
Std. By	<u>1325</u>
Acc. Chg:	_____
Other:	_____
Total:	_____

CHART PAGE

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

9437
#3

Ritchie Exploration
Dowd 1-28C





10/05

**TRILOBITE
TESTING INC.**

P.O. Box 362 • Hays, Kansas 67601

27685

Test Ticket

Well Name & No.	<u>Dowd 1-286</u>	Test No.	<u>4</u>	Date	<u>6-8-07</u>
Company	<u>Ritchie Exploration</u>	Zone Tested	<u>4K-J</u>		
Address		Elevation	<u>2088</u>	KB	<u>2078</u>
Co. Rep / Geo.	<u>Terry McLeod</u>	Rig	<u>Martin 21</u>		
Location: Sec.	<u>28</u>	Twp.	<u>17S</u>	Rge.	<u>30W</u>
		Co.	<u>Line</u>	State	<u>KS</u>
Comment:		Release date / time:			

Interval Tested	<u>4185</u>	<u>4210</u>	Initial Str Wt./Lbs.	<u>68,000</u>	Unseated Str Wt./Lbs.	<u>68,000</u>
Anchor Length		<u>25</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>85,000</u>
Top Packer Depth		<u>4180</u>	Tool Weight	<u>1500</u>		
Bottom Packer Depth		<u>4185</u>	Hole Size 7 7/8"	<u>✓</u>	Rubber Size 6 3/4"	<u>✓</u>
Total Depth		<u>4210</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>189</u>
Mud Wt.	<u>9.4</u>	LCM <u>2</u>	Vis. <u>54</u>	WL <u>8.0</u>	Drill Pipe Size	<u>4 1/2 x 4</u>
Blow Description	<u>IF: Surface blow built to 2 in 30 min.</u>					

IS: No return.FF: Surface blow built to 1 in 45 min.FS: No return.

Recovery - Total Feet	<u>124</u>	GIP	<u>—</u>	Ft. in DC	<u>124</u>	Ft. in DP	<u>—</u>
Rec.	<u>124</u>	Feet of	<u>41CM oil spots</u>	%gas		%oil	<u>30</u>
				%water		%mud	<u>70</u>
Rec.		Feet of		%gas		%oil	
				%water		%mud	
Rec.		Feet of		%gas		%oil	
				%water		%mud	
Rec.		Feet of		%gas		%oil	
				%water		%mud	
BHT	<u>118</u>	'F Gravity	<u>—</u>	'API D @	<u>—</u>	'F Corrected Gravity	<u>—</u>
RW	<u>.25</u>	@	<u>85</u>	'F	Chlorides <u>22,000</u>	ppm Recovery	<u>22,000</u>
				'F	Chlorides <u>2400</u>	ppm System	

(A) Initial Hydrostatic Mud	<u>2139</u>	PSI	Recorder No.	<u>6772</u>	Test	<u>x 1200.00</u>
(B) First Initial Flow Pressure	<u>12</u>	PSI	(depth)	<u>4186</u>	Jars	
(C) First Final Flow Pressure	<u>37</u>	PSI	Recorder No.	<u>5437</u>	Safety Jt.	<u>x 75.00</u>
(D) Initial Shut-In Pressure	<u>859</u>	PSI	(depth)	<u>4209</u>	Circ Sub	
(E) Second Initial Flow Pressure	<u>40</u>	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	<u>64</u>	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	<u>811</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>1982</u>	PSI	Initial Shut-In	<u>45</u>	Shale Packer	<u>x 250.00</u>
			Final Flow	<u>45</u>	Ruined Packer	<u>x 280.00</u>
			Final Shut-In	<u>60</u>	Mileage	<u>40 - 50.00</u>
			T-On Location	<u>5:35</u>	Sub Total:	
			T-Started	<u>5:58</u>	Std. By	<u>1855</u>
			T-Open	<u>8:07</u>	Acc. Chg:	
			T-Pulled	<u>11:07</u>	Other:	
			T-Out	<u>13:30</u>	Total:	

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Approved By Terry McLeod

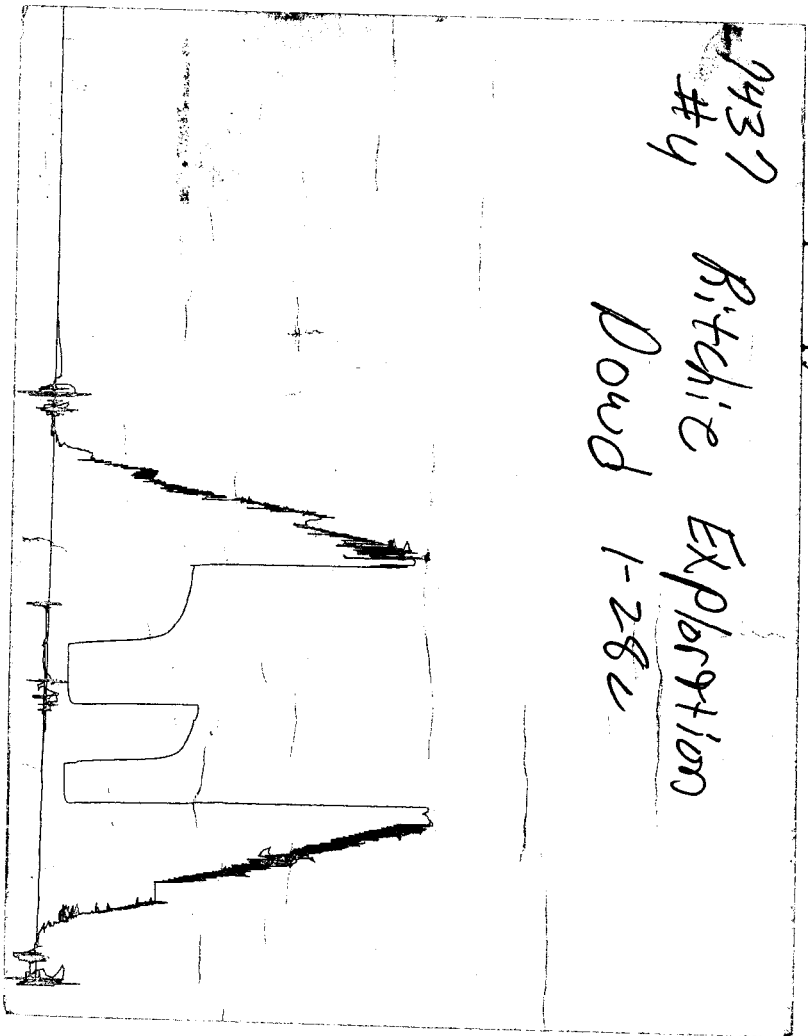
Our Representative [Signature]

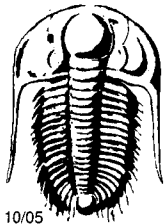
CHART PAGE

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

9437
#4

Ritchie Exploration
Doud 1-28c





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27686

Test Ticket

Well Name & No.	Dowd 1-28L		Test No.	5	Date	6-9-07
Company	Ritchie Exploration		Zone Tested	Altamont		
Address			Elevation	2088	KB	2078 GL
Co. Rep / Geo.	Terry McLeod		Rig	Murfin 21		
Location: Sec.	28	Twp.	175	Rge.	30W	Co. Lane State KS
Comment:	Release date / time:					

Interval Tested	4355	4375	Initial Str Wt./Lbs.	70,000	Unseated Str Wt./Lbs.	76,000
Anchor Length		20	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	86,000
Top Packer Depth		4330	Tool Weight	1500		
Bottom Packer Depth		4355	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4375	Wt. Pipe Run	—	Drill Collar Run	189
Mud Wt.	9.3	LCM 2	Drill Pipe Size	4 1/2 x 4	Ft. Run	4172
Vis.	48	WL				
Blow Description	IF: Bob in 30 sec.					

IS: Surface blow built to 1 in 45 min.
 FF: 1/4 blow built to 4 1/2 in 30 min.
 FS: Surface blow built to 2 in 60 min.

Recovery - Total Feet	1806	GIP	186	Ft. in DC	189	Ft. in DP	1617
Rec.	191	Feet of	MLGO	20 %gas	75 %oil	%water	5 %mud
Rec.	496	Feet of	WC90	20 %gas	50 %oil	30 %water	%mud
Rec.	310	Feet of	WC90	30 %gas	60 %oil	10 %water	%mud
Rec.	620	Feet of	OCMW	%gas	5 %oil	85 %water	10 %mud
Rec.	189	Feet of	MLW	%gas	%oil	95 %water	5 %mud
BHT	126	°F Gravity	37	°API D @	90	°F Corrected Gravity	34
RW	.12	@	90	°F Chlorides	49,000 ppm	Recovery	49,000 Chlorides
							2600 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2196	PSI	Recorder No.	6772	Test x	1200.00
(B) First Initial Flow Pressure			392	PSI	(depth)	4356	Jars	
(C) First Final Flow Pressure			751	PSI	Recorder No.	7437	Safety Jt.	x 75.00
(D) Initial Shut-In Pressure			765	PSI	(depth)	4374	Circ Sub	x N/C
(E) Second Initial Flow Pressure			753	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			767	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			770	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			2180	PSI	Initial Shut-In	45	Shale Packer	x 250.00
					Final Flow	30	Ruined Packer	
					Final Shut-In	60	Mileage	40 - 5000
					T-On Location	10:00	Sub Total:	
					T-Started	10:32	Std. By	
					T-Open	12:40	Acc. Chg:	
					T-Pulled	15:25	Other:	
					T-Out	18:45	Total:	

Approved By Sup L. McLeod
 Our Representative [Signature]

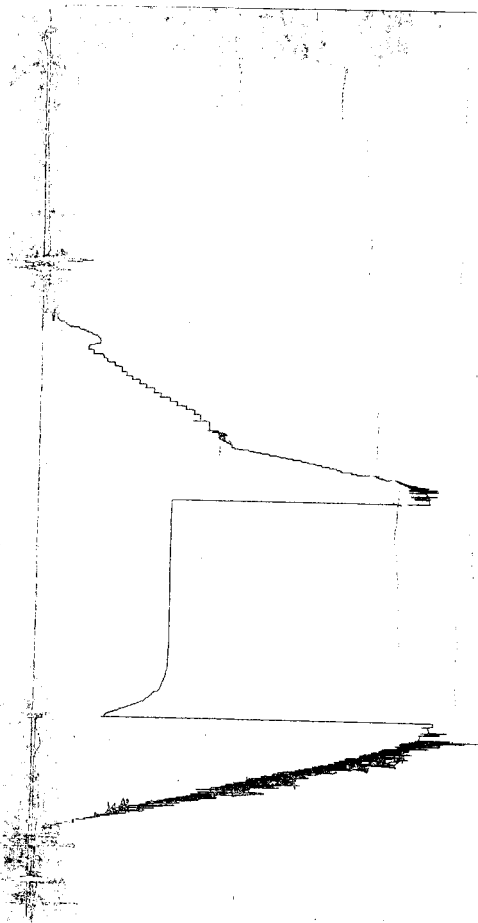
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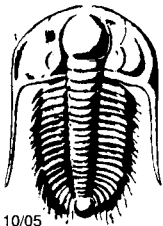
CHART PAGE

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7437
#5

Rescue Exploration
Doud 1-28c





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27687

Test Ticket

Well Name & No.	<u>Dowd 1-28L</u>	Test No.	<u>6</u>	Date	<u>6-10-07</u>
Company	<u>Ritchie Exploration</u>	Zone Tested	<u>Johnson</u>		
Address		Elevation	<u>2088</u>	KB	<u>2078</u>
Co. Rep / Geo.	<u>Terry McLeod</u>	Rig	<u>Murfin 21</u>		
Location: Sec.	<u>28</u>	Twp.	<u>17S</u>	Rge.	<u>30W</u>
		Co.	<u>Line</u>	State	<u>KS</u>
Comment:	Release date / time:				

Interval Tested	<u>4479</u>	<u>4550</u>	Initial Str Wt./Lbs.	<u>70,000</u>	Unseated Str Wt./Lbs.	<u>70,000</u>
Anchor Length		<u>71</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>90,000</u>
Top Packer Depth		<u>4474</u>	Tool Weight	<u>1500</u>		
Bottom Packer Depth		<u>4479</u>	Hole Size 7 7/8"	<u>✓</u>	Rubber Size 6 3/4"	<u>✓</u>
Total Depth		<u>4550</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>189</u>
Mud Wt.	<u>9.1</u>	LCM <u>1</u>	Vis. <u>57</u>	WL <u>8.0</u>	Drill Pipe Size	<u>4 1/2 x H</u>
Blow Description	<u>IF: 1/4 blow died in 20 min.</u>					

IS: No return.
FF: No blow.
FS: No return.

Recovery - Total Feet	<u>62</u>	GIP	<u>—</u>	Ft. in DC	<u>62</u>	Ft. in DP	<u>—</u>
Rec.	<u>62</u>	Feet of	<u>OCM</u>	%gas	<u>40</u>	%oil	<u>60</u>
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
BHT	<u>118</u>	°F Gravity	<u>—</u>	°API D @	<u>—</u>	°F Corrected Gravity	<u>—</u>
RW	<u>—</u>	@	<u>—</u>	°F Chlorides	<u>—</u>	ppm Recovery	<u>—</u>
				Chlorides	<u>2100</u>	ppm System	

(A) Initial Hydrostatic Mud	<u>2213</u>	PSI	Recorder No.	<u>6772</u>	Test	<u>x 1200.00</u>
(B) First Initial Flow Pressure	<u>16</u>	PSI	(depth)	<u>4480</u>	Jars	
(C) First Final Flow Pressure	<u>27</u>	PSI	Recorder No.	<u>7437</u>	Safety Jt.	<u>x 75.00</u>
(D) Initial Shut-In Pressure	<u>1050</u>	PSI	(depth)	<u>4549</u>	Circ Sub	<u>x N/C</u>
(E) Second Initial Flow Pressure	<u>32</u>	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	<u>41</u>	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	<u>921</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>2189</u>	PSI	Initial Shut-In	<u>30</u>	Shale Packer	<u>x 280.00</u>
			Final Flow	<u>30</u>	Ruined Packer	<u>280.00</u>
			Final Shut-In	<u>30</u>	Mileage	<u>40-50.00</u>
			T-On Location	<u>14:10</u>	Sub Total:	
			T-Started	<u>15:05</u>	Std. By	
			T-Open	<u>17:06</u>	Acc. Chg:	
			T-Pulled	<u>19:06</u>	Other:	
			T-Out	<u>21:40</u>	Total:	

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Approved By

Our Representative

CHART PAGE

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

5437
#6

Ritchie Exploration
Dowd 1-28C

