

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

3 15 28 Gove KS

Coberly Unit #1

Start Date: 2007.11.21 @ 07:50:25

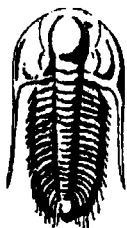
End Date: 2007.11.21 @ 15:23:45

Job Ticket #: 29725 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 Inc.

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

Coberly Unit #1

3 15 28 Gove KS

Job Ticket: 29725

DST#: 1

Test Start: 2007.11.21 @ 07:50:25

GENERAL INFORMATION:

Formation: **Lans. "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:54:50

Time Test Ended: 15:23:45

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 25

Interval: **3774.00 ft (KB) To 3800.00 ft (KB) (TVD)**

Total Depth: 3800.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2551.00 ft (KB)

2539.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6769 **Inside**

Press@RunDepth: 117.25 psig @ 3775.00 ft (KB)

Start Date: 2007.11.21

End Date:

2007.11.21

Start Time: 07:50:25

End Time:

15:23:45

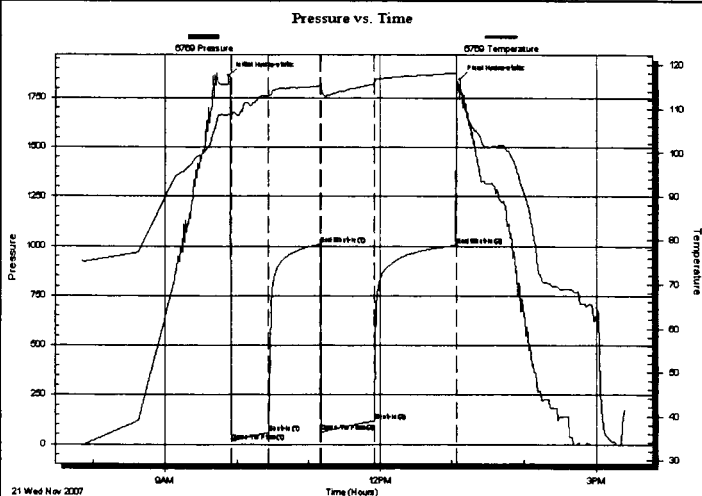
Capacity: 7000.00 psig

Last Calib.: 2007.11.21

Time On Btm: 2007.11.21 @ 09:53:10

Time Off Btm: 2007.11.21 @ 13:06:55

TEST COMMENT: IF Built to 3 1/2 "
IS No return
FF Built to 4 3/4 "
FS No return



PRESSURE SUMMARY

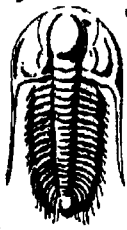
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1864.03	108.58	Initial Hydro-static
2	13.62	107.67	Open To Flow (1)
34	57.24	112.82	Shut-In (1)
77	1009.21	115.14	End Shut-In (1)
78	61.01	114.70	Open To Flow (2)
122	117.25	115.69	Shut-In (2)
191	1003.80	118.15	End Shut-In (2)
194	1846.66	115.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MCW 60%W 40%M	0.07
155.00	SMCW 80%W 20%M	0.76
30.00	100%M	0.15

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 Inc.

Coberly Unit #1

PO Box 783188
Wichita KS 67278

3 15 28 Gove KS

Job Ticket: 29725

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2007.11.21 @ 07:50:25

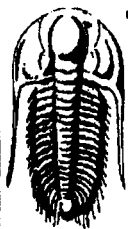
Tool Information

Drill Pipe:	Length: 3203.00 ft	Diameter: 3.80 inches	Volume: 44.93 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: 25000.00 lb
Drill Collar:	Length: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	47.79 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3774.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	49.00 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			3752.00	
Shut In Tool	5.00			3757.00	
Hydraulic tool	5.00			3762.00	
Safety Joint	3.00			3765.00	
Packer	5.00			3770.00	23.00 Bottom Of Top Packer
Packer	4.00			3774.00	
Stubb	1.00			3775.00	
Recorder	0.00	6769	Inside	3775.00	
Perforations	20.00			3795.00	
Recorder	0.00	2607	Inside	3795.00	
Bullnose	5.00			3800.00	26.00 Bottom Packers & Anchor

Total Tool Length: 49.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Coberly Unit #1

PO Box 783188
Wichita KS 67278

3 15 28 Gove KS

Job Ticket: 29725

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2007.11.21 @ 07:50:25

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:

48000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	MCW 60%W 40%M	0.074
155.00	SMCW 80%W 20%M	0.762
30.00	100%M	0.148

Total Length: 200.00 ft

Total Volume: 0.984 bbl

Num Fluid Samples: 0

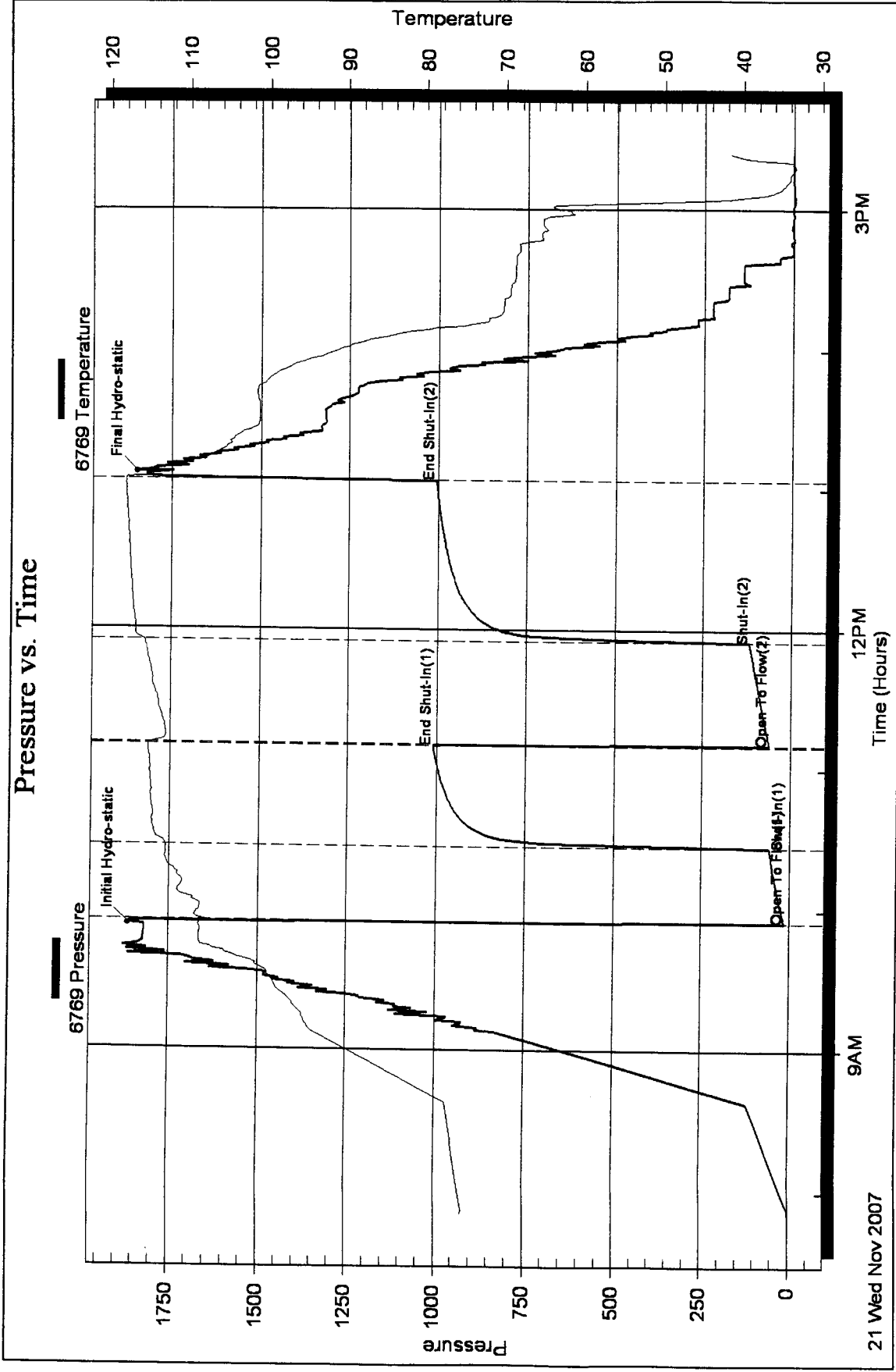
Num Gas Bombs: 0

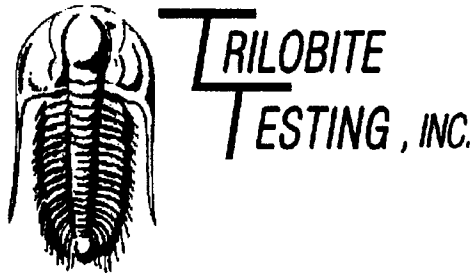
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

3 15 28 Gove KS

Coberly Unit #1

Start Date: 2007.11.22 @ 02:41:07

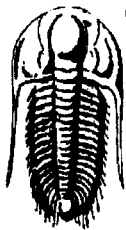
End Date: 2007.11.22 @ 11:36:26

Job Ticket #: 29551 DST #: 2

Trilobite Testing, Inc

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



TRILOBITE
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DRILL STEM TEST REPORT

Ritchie Exploration Inc.

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

Coberly Unit #1

3 15 28 Gove KS

Job Ticket: 29551

DST#: 2

Test Start: 2007.11.22 @ 02:41:07

GENERAL INFORMATION:

Formation: **Lans. H&I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:40:02

Time Test Ended: 11:36:26

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 25

Interval: **3853.00 ft (KB) To 3919.00 ft (KB) (TVD)**

Total Depth: 3919.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2551.00 ft (KB)

2539.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6769

Inside

Press@RunDepth: 306.55 psig @ 3854.00 ft (KB)

Start Date: 2007.11.22

End Date:

2007.11.22

Start Time: 02:41:07

End Time:

11:36:26

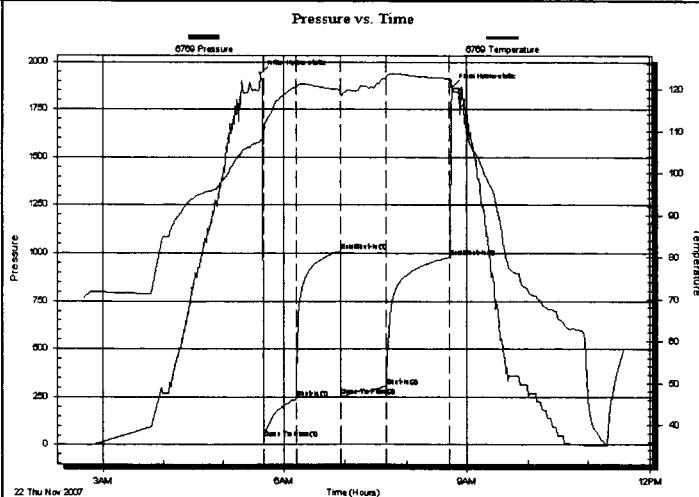
Capacity: 7000.00 psig

Last Calib.: 2007.11.22

Time On Btm: 2007.11.22 @ 05:37:07

Time Off Btm: 2007.11.22 @ 08:45:37

TEST COMMENT: IF BOB in 4 mins.
IS Built to 5 " died back to 3 "
FF BOB in 5 mins.
FS BOB in 20 mins died back to 2 "



PRESSURE SUMMARY

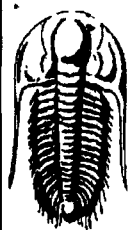
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.66	107.63	Initial Hydro-static
3	33.80	106.99	Open To Flow (1)
35	247.16	120.44	Shut-In (1)
79	1010.43	119.82	End Shut-In (1)
79	255.63	119.14	Open To Flow (2)
124	306.55	122.59	Shut-In (2)
186	979.29	122.57	End Shut-In (2)
189	1869.06	118.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	O&HGCM 50%G 15%O 35%M	0.46
531.00	HGCCO 50%G 50%O	2.99
201.00	M&GCO 30%G 50%O 20%M	2.82
0.00	GIP 1125 ft	0.00

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 Inc.

Coberly Unit #1

PO Box 783188
Wichita KS 67278

3 15 28 Gove KS

Job Ticket: 29551

DST#:2

ATTN: Mke Engelbrecht

Test Start: 2007.11.22 @ 02:41:07

Tool Information

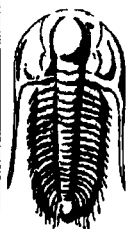
Drill Pipe:	Length: 3266.00 ft	Diameter: 3.80 inches	Volume: 45.81 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume:	48.67 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3853.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3831.00	
Shut In Tool	5.00			3836.00	
Hydraulic tool	5.00			3841.00	
Safety Joint	3.00			3844.00	
Packer	5.00			3849.00	23.00 Bottom Of Top Packer
Packer	4.00			3853.00	
Stubb	1.00			3854.00	
Recorder	0.00	6769	Inside	3854.00	
Perforations	26.00			3880.00	
Change Over Sub	1.00			3881.00	
Drill Pipe	32.00			3913.00	
Change Over Sub	1.00			3914.00	
Recorder	0.00	2607	Inside	3914.00	
Bullnose	5.00			3919.00	66.00 Bottom Packers & Anchor

Total Tool Length: 89.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Coberly Unit #1

PO Box 783188
Wichita KS 67278

3 15 28 Gove KS

Job Ticket: 29551

DST#: 2

ATTN: Mike Engelbrecht

Test Start: 2007.11.22 @ 02:41:07

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 8.73 in³

Resistivity: 0.00 ohm.m

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

41 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	O&H GCM 50%G 15%O 35%M	0.457
531.00	HGCCO 50%G 50%O	2.994
201.00	M&GCCO 30%G 50%O 20%M	2.820
0.00	GIP 1125 ft	0.000

Total Length: 825.00 ft

Total Volume: 6.271 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

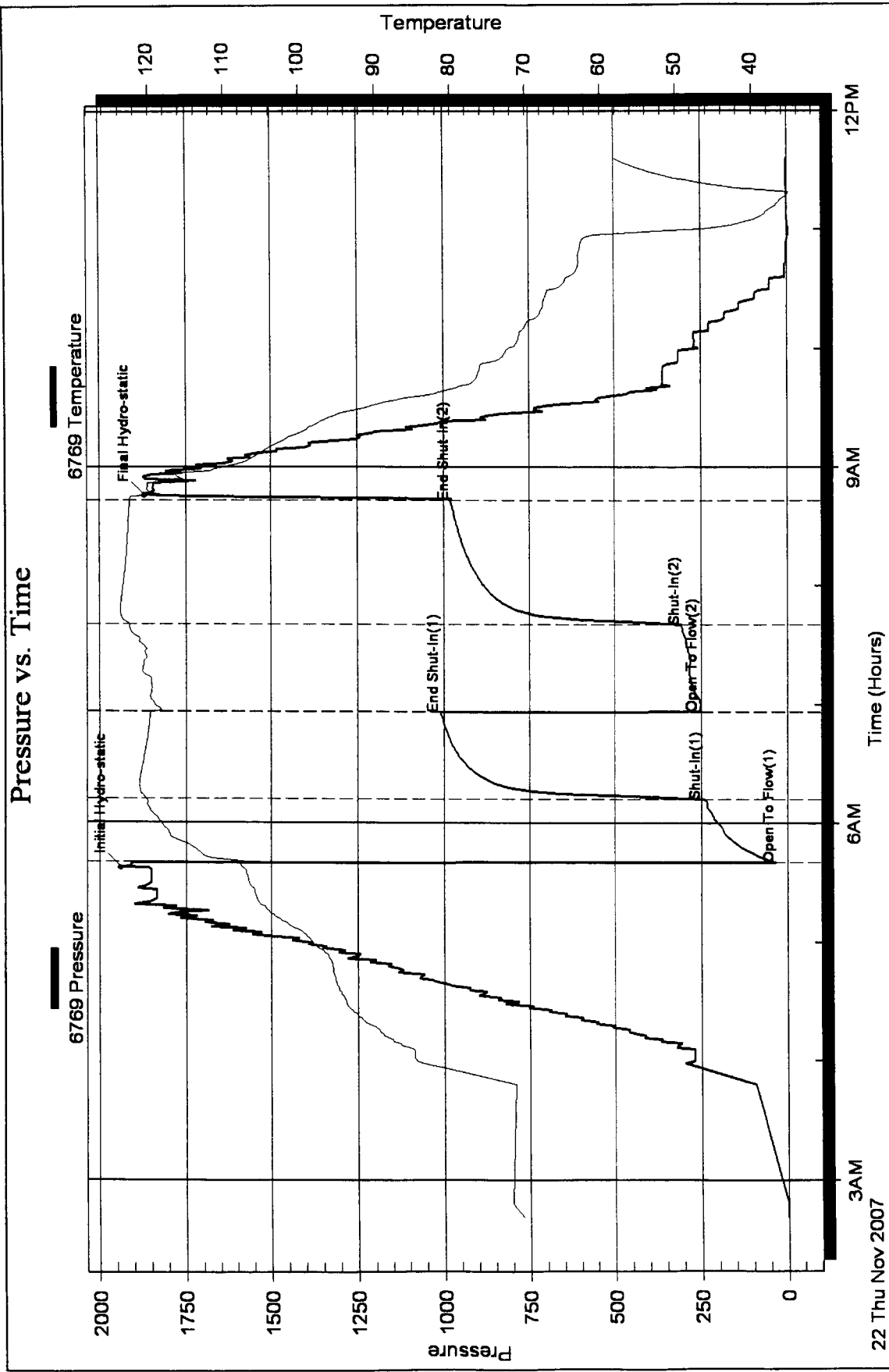
Serial #:

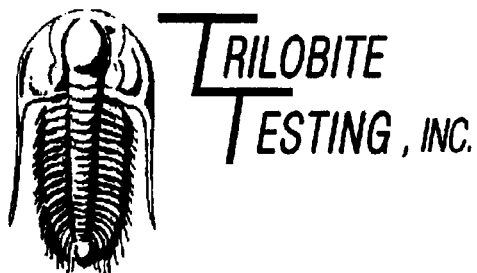
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

3 15 28 Gove KS

Coberly Unit #1

Start Date: 2007.11.22 @ 18:58:32

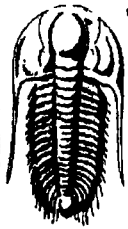
End Date: 2007.11.23 @ 02:38:22

Job Ticket #: 29552 DST #: 3

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 Inc.

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

Coberly Unit #1

3 15 28 Gove KS

Job Ticket: 29552

DST#: 3

Test Start: 2007.11.22 @ 18:58:32

GENERAL INFORMATION:

Formation: **Lans. J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:01:32

Time Test Ended: 02:38:22

Interval: **3922.00 ft (KB) To 3960.00 ft (KB) (TVD)**

Total Depth: 3960.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 25

Reference Elevations: 2551.00 ft (KB)

2539.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6769

Inside

Press@RunDepth: 105.76 psig @ 3923.00 ft (KB)

Start Date: 2007.11.22

End Date: 2007.11.23

Start Time: 18:58:32

End Time: 02:38:22

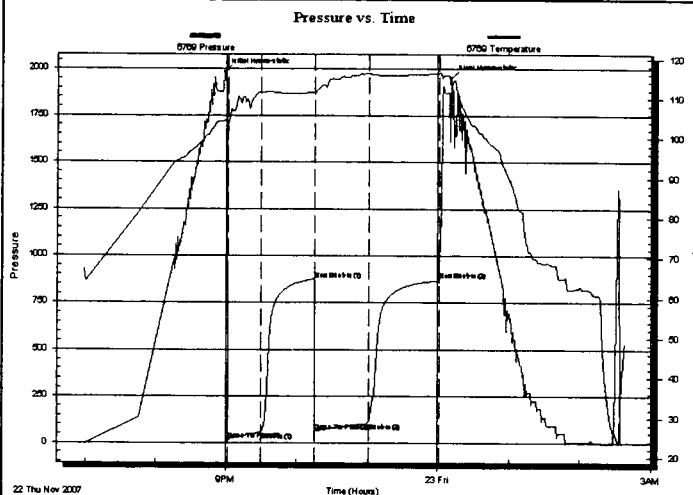
Capacity: 7000.00 psig

Last Calib.: 2007.11.23

Time On Btm: 2007.11.22 @ 20:58:47

Time Off Btm: 2007.11.23 @ 00:11:17

TEST COMMENT: IF Built to 5 "
IS No return
FF Built to 4 1/2 "
FS No return



PRESSURE SUMMARY

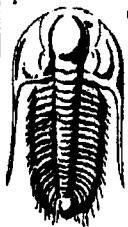
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.08	104.44	Initial Hydro-static
3	15.74	103.55	Open To Flow (1)
32	57.30	111.55	Shut-In(1)
77	872.58	111.45	End Shut-In(1)
77	62.72	111.05	Open To Flow (2)
123	105.76	116.23	Shut-In(2)
183	869.09	116.43	End Shut-In(2)
193	1950.57	113.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Lightly O spotted M 100%M	0.93

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 Inc.

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

Coberly Unit #1

3 15 28 Gove KS

Job Ticket: 29552

DST#: 3

Test Start: 2007.11.22 @ 18:58:32

Tool Information

Drill Pipe:	Length: 3330.00 ft	Diameter: 3.80 inches	Volume: 46.71 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:	25000.00 lb
Drill Collar:	Length: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose:	85000.00 lb
			Total Volume: 49.57 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	3922.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	61.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3900.00	
Shut In Tool	5.00			3905.00	
Hydraulic tool	5.00			3910.00	
Safety Joint	3.00			3913.00	
Packer	5.00			3918.00	23.00 Bottom Of Top Packer
Packer	4.00			3922.00	
Stubb	1.00			3923.00	
Recorder	0.00	6769	Inside	3923.00	
Perforations	32.00			3955.00	
Recorder	0.00	2607	Inside	3955.00	
Bullnose	5.00			3960.00	38.00 Bottom Packers & Anchor

Total Tool Length: 61.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Coberly Unit #1

PO Box 783188
Wichita KS 67278

3 15 28 Gove KS

Job Ticket: 29552

DST#: 3

ATTN: Mike Engelbrecht

Test Start: 2007.11.22 @ 18:58:32

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.53 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	Lightly O spotted M 100%M	0.934

Total Length: 190.00 ft

Total Volume: 0.934 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

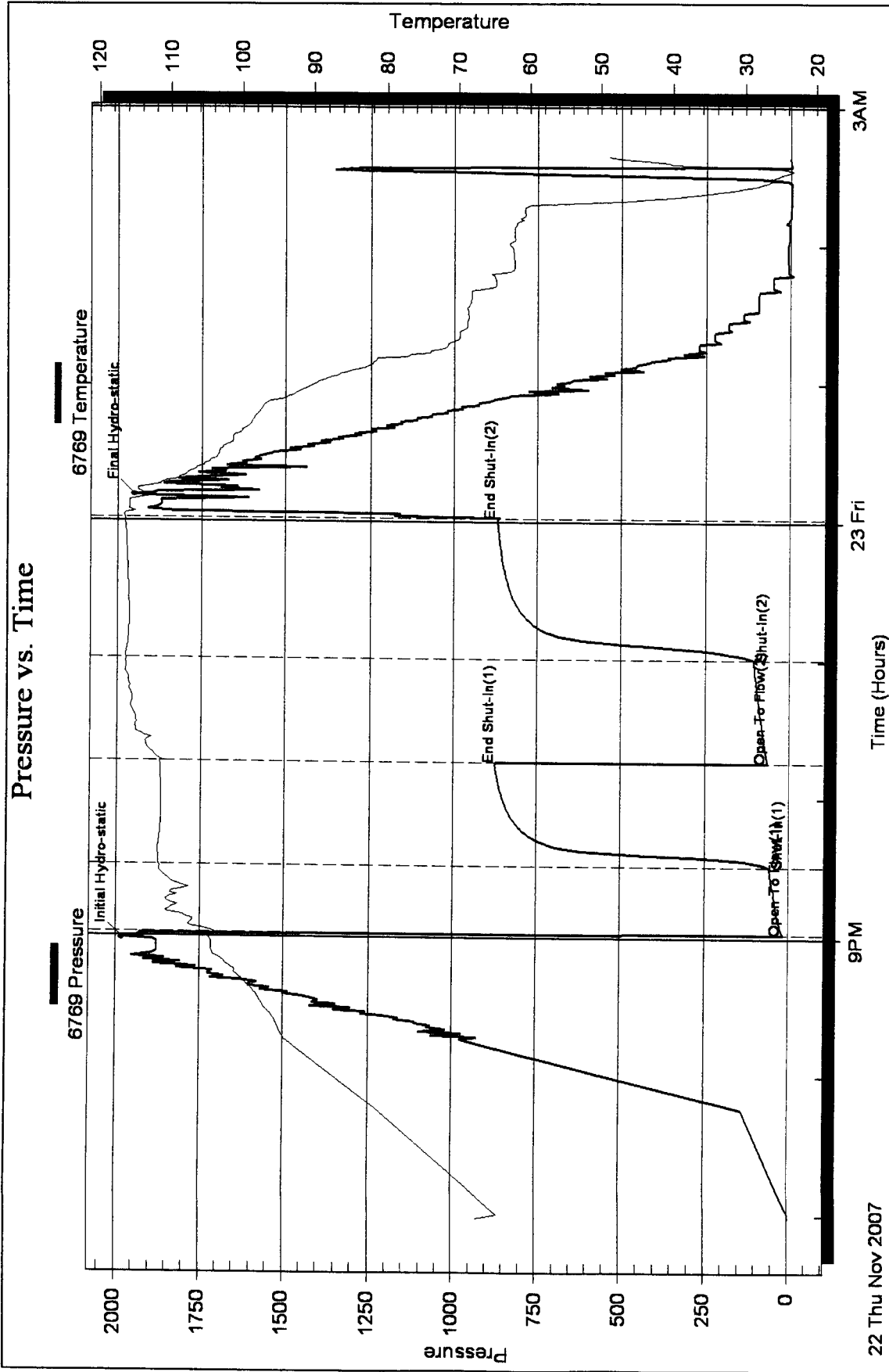
Serial #:

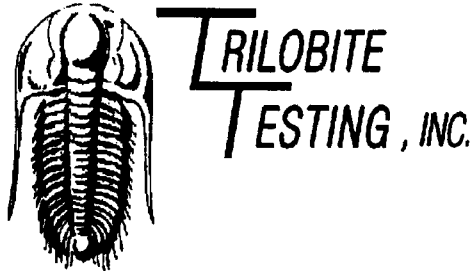
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

3 15 28 Gove KS

Coberly Unit #1

Start Date: 2007.11.23 @ 10:27:05

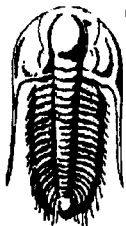
End Date: 2007.11.23 @ 17:50:40

Job Ticket #: 29553 DST #: 4

Trilobite Testing, Inc

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TRILOBITE
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DRILL STEM TEST REPORT

Ritchie Exploration Inc.

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

Coberly Unit #1

3 15 28 Gove KS

Job Ticket: 29553

DST#: 4

Test Start: 2007.11.23 @ 10:27:05

GENERAL INFORMATION:

Formation: **Lans. K**

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

Time Tool Opened: 12:38:25

Time Test Ended: 17:50:40

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **25**

Interval: **3950.00 ft (KB) To 3992.00 ft (KB) (TVD)**

Total Depth: **3992.00 ft (KB) (TVD)**

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

Reference Elevations: **2551.00 ft (KB)**

2539.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: 6769

Inside

Press@RunDepth: **840.40 psig @ 3951.00 ft (KB)**

Start Date: **2007.11.23**

End Date: **2007.11.23**

Start Time: **10:27:05**

End Time: **17:50:40**

Capacity: **7000.00 psig**

Last Calib.: **2007.11.23**

Time On Btm: **2007.11.23 @ 12:36:25**

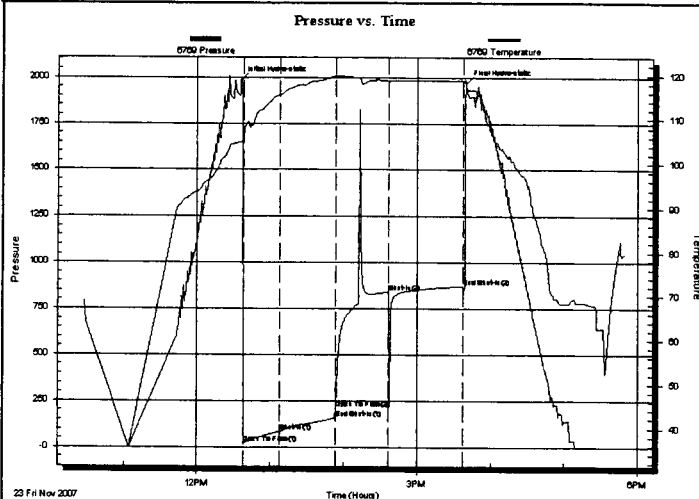
Time Off Btm: **2007.11.23 @ 15:40:05**

TEST COMMENT: **IF Built to 7 1/2 "**

IS Built to 5 "

FF Surface blow flushed tool, surface blow died in 8 mins.

FS Surface blow died in 6 mins.



PRESSURE SUMMARY

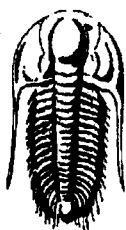
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.78	104.93	Initial Hydro-static
2	19.29	104.70	Open To Flow (1)
32	83.74	115.63	Shut-In(1)
77	155.37	119.82	End Shut-In(1)
78	207.21	119.86	Open To Flow (2)
121	840.40	118.90	Shut-In(2)
181	871.16	118.79	End Shut-In(2)
184	1968.92	117.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100%M	0.15
250.00	SMCW 95%W 5%M	1.23
10.00	MCW w/Oil spots	0.05

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

Coberly Unit #1

3 15 28 Gove KS

Job Ticket: 29553

DST#: 4

Test Start: 2007.11.23 @ 10:27:05

Tool Information

Drill Pipe:	Length: 3361.00 ft	Diameter: 3.80 inches	Volume: 47.15 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:	25000.00 lb
Drill Collar:	Length: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose:	92000.00 lb
		Total Volume:	50.01 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	3950.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	65.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3928.00	
Shut In Tool	5.00			3933.00	
Hydraulic tool	5.00			3938.00	
Safety Joint	3.00			3941.00	
Packer	5.00			3946.00	23.00 Bottom Of Top Packer
Packer	4.00			3950.00	
Stubb	1.00			3951.00	
Recorder	0.00	6769	Inside	3951.00	
Perforations	36.00			3987.00	
Recorder	0.00	2607	Inside	3987.00	
Bullnose	5.00			3992.00	42.00 Bottom Packers & Anchor

Total Tool Length: 65.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Coberly Unit #1

PO Box 783188
Wichita KS 67278

3 15 28 Gove KS

Job Ticket: 29553

DST#: 4

ATTN: Mike Engelbrecht

Test Start: 2007.11.23 @ 10:27:05

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:

65000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.55 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100%M	0.148
250.00	SMCW 95%W 5%M	1.229
10.00	MCW w/Oil spots	0.049

Total Length: 290.00 ft

Total Volume: 1.426 bbl

Num Fluid Samples: 0

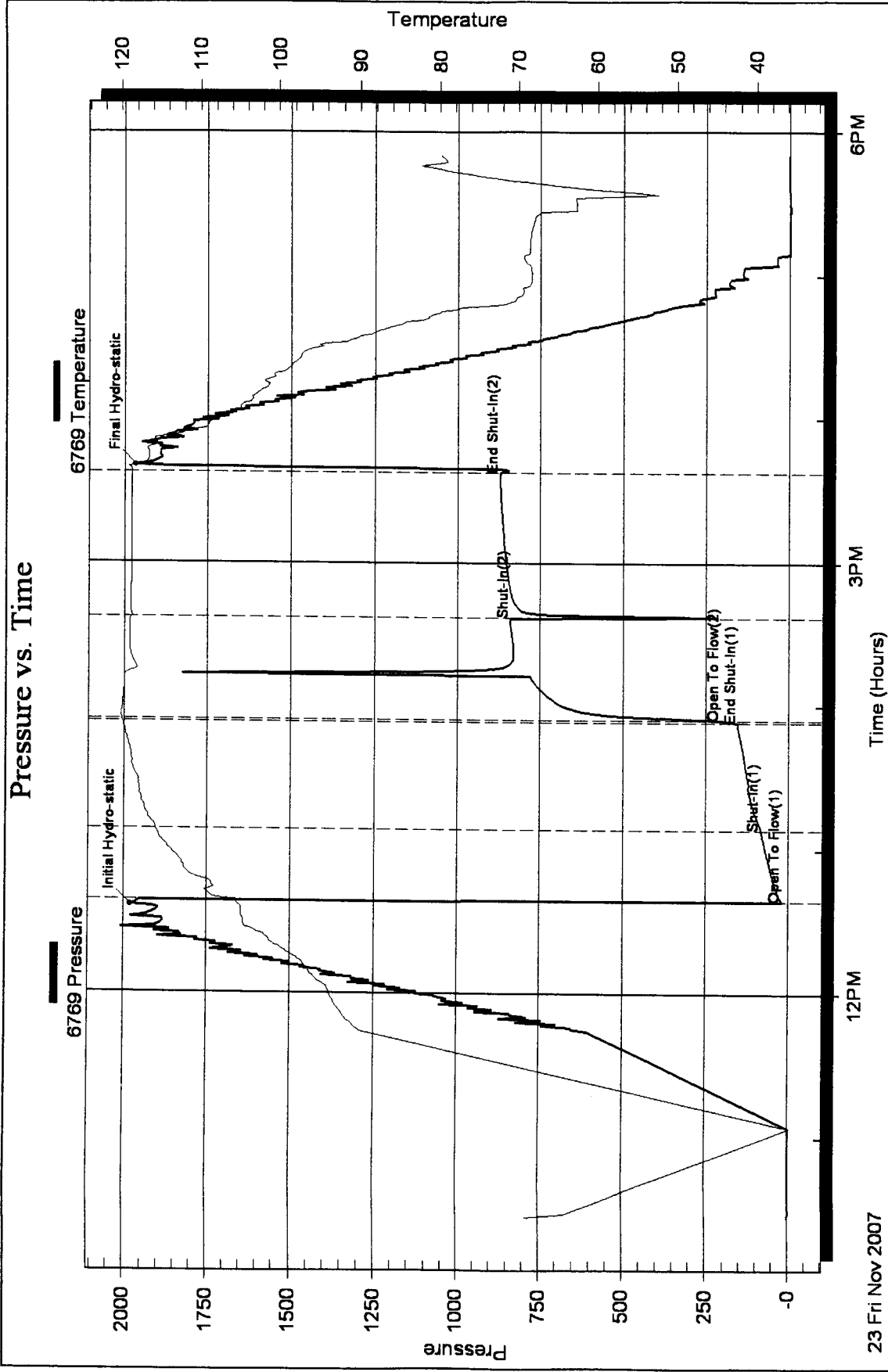
Num Gas Bombs: 0

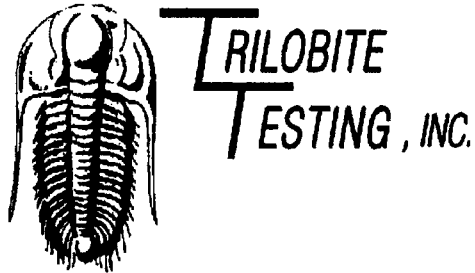
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

3 15 28 Gove KS

Coberly Unit #1

Start Date: 2007.11.24 @ 14:41:59

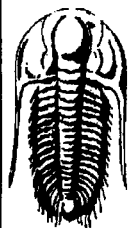
End Date: 2007.11.24 @ 22:23:49

Job Ticket #: 29554 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 Inc.

PO Box 783188
Wichita KS 67278

ATTN: Mike Engelbrecht

Coberly Unit #1

3 15 28 Gove KS

Job Ticket: 29554

DST#: 5

Test Start: 2007.11.24 @ 14:41:59

GENERAL INFORMATION:

Formation: **Ft. Scott**

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

Time Tool Opened: 16:50:23

Time Test Ended: 22:23:49

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **25**

Interval: **4183.00 ft (KB) To 4237.00 ft (KB) (TVD)**

Total Depth: **4237.00 ft (KB) (TVD)**

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

Reference Elevations: **2551.00 ft (KB)**

2539.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: 6769 **Inside**

Press@RunDepth: **306.89 psig @ 4184.00 ft (KB)**

Start Date: **2007.11.24**

End Date:

2007.11.24

Start Time: **14:41:59**

End Time:

22:23:49

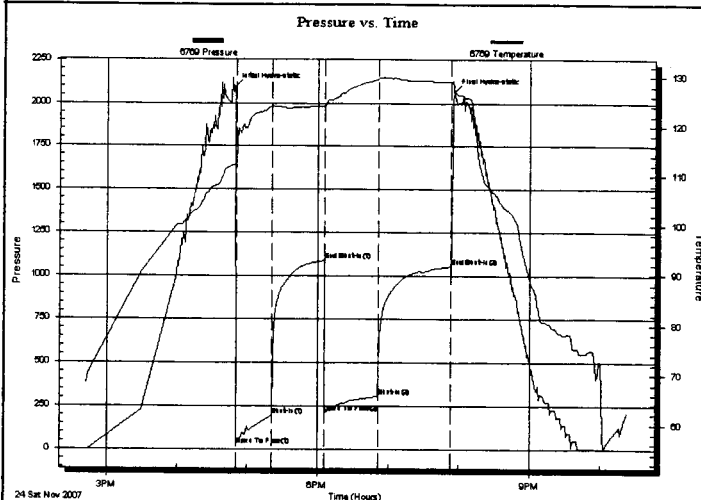
Capacity: **7000.00 psig**

Last Calib.: **2007.11.24**

Time On Btm: **2007.11.24 @ 16:48:59**

Time Off Btm: **2007.11.24 @ 19:55:54**

TEST COMMENT: IF BOB in 18 mins.
IS Built to 1/4 " died in 34 mins.
FF BOB in 31 mins.
FS Built to 3/4 " died back to 1/4 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2095.27	112.24	Initial Hydro-static
2	21.05	111.54	Open To Flow (1)
32	196.26	124.13	Shut-In (1)
77	1086.41	124.19	End Shut-In (1)
77	211.73	123.75	Open To Flow (2)
123	306.89	129.64	Shut-In (2)
184	1052.21	129.18	End Shut-In (2)
187	2065.92	128.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%M	0.07
356.00	SMCW 95%W 5%M	1.75
279.00	MCW 70%W 30%M	1.99
15.00	SW&OCM 3%O 7%W 90%M	0.21
0.00	GIP 75 ft	0.00

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 Inc.

Coberly Unit #1

PO Box 783188
Wichita KS 67278

3 15 28 Gove KS

Job Ticket: 29554

DST#: 5

ATTN: Mike Engelbrecht

Test Start: 2007.11.24 @ 14:41:59

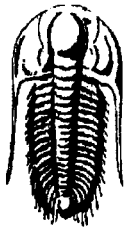
Tool Information

Drill Pipe:	Length: 3584.00 ft	Diameter: 3.80 inches	Volume: 50.27 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:	25000.00 lb
Drill Collar:	Length: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose:	82000.00 lb
		Total Volume:	53.13 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	73000.00 lb
Depth to Top Packer:	4183.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	77.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4161.00	
Shut In Tool	5.00			4166.00	
Hydraulic tool	5.00			4171.00	
Safety Joint	3.00			4174.00	
Packer	5.00			4179.00	23.00 Bottom Of Top Packer
Packer	4.00			4183.00	
Stubb	1.00			4184.00	
Recorder	0.00	6769	Inside	4184.00	
Perforations	14.00			4198.00	
Change Over Sub	1.00			4199.00	
Drill Pipe	32.00			4231.00	
Change Over Sub	1.00			4232.00	
Recorder	0.00	2607	Inside	4232.00	
Bullnose	5.00			4237.00	54.00 Bottom Packers & Anchor

Total Tool Length: 77.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Coberly Unit #1

PO Box 783188
Wichita KS 67278

3 15 28 Gove KS

Job Ticket: 29554

DST#: 5

ATTN: Mike Engelbrecht

Test Start: 2007.11.24 @ 14:41:59

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 10.37 in³

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft
bbl

psig

Oil API:

deg API

Water Salinity:

58000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	100%M	0.074
356.00	SMCW 95%W 5%M	1.751
279.00	MCW 70%W 30%M	1.992
15.00	SW&OCM 3%O 7%W 90%M	0.210
0.00	GIP 75 ft	0.000

Total Length: 665.00 ft

Total Volume: 4.027 bbl

Num Fluid Samples: 0

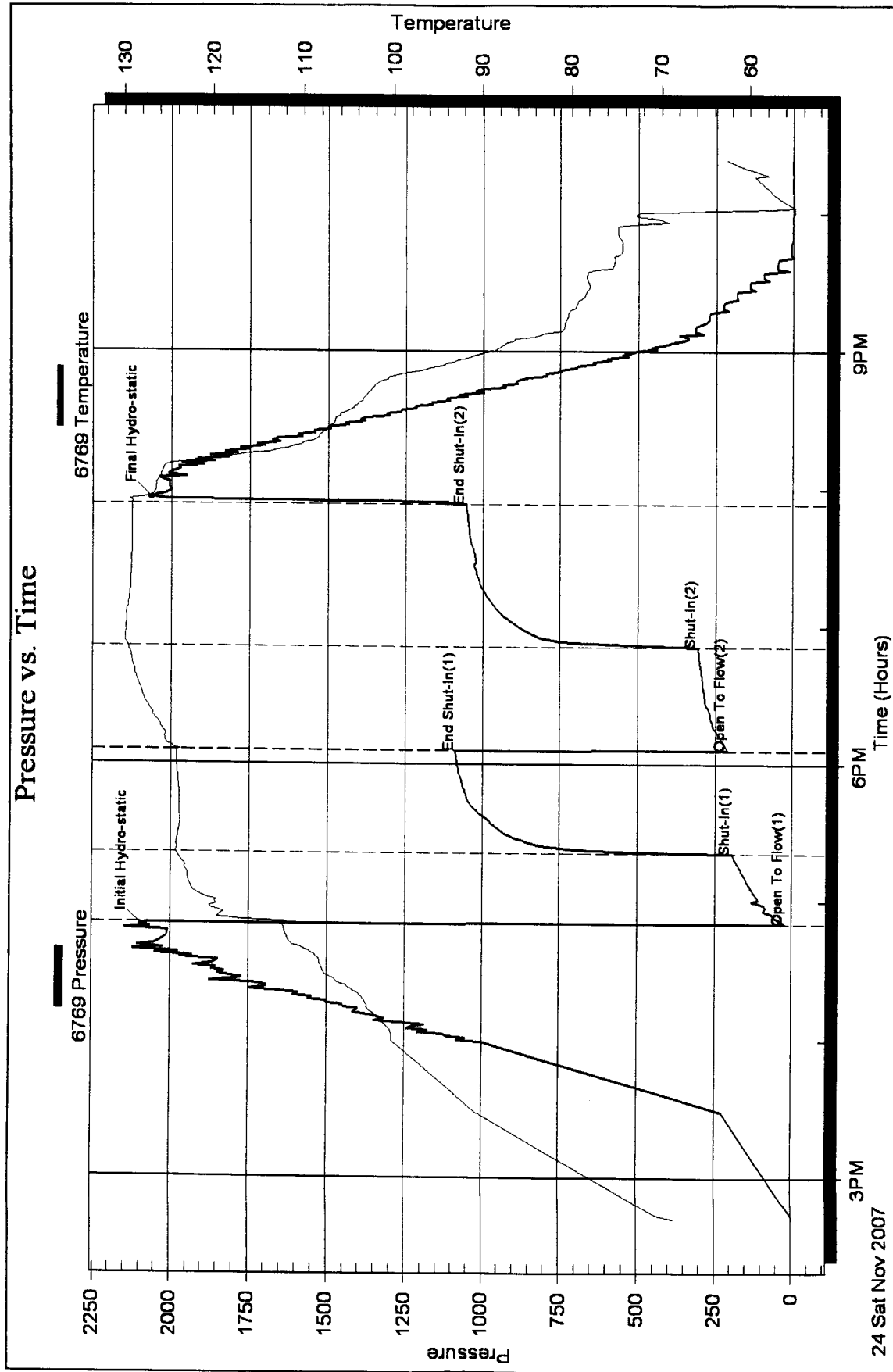
Num Gas Bombs: 0

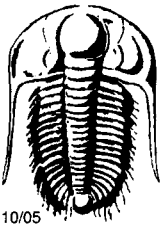
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

29725

RECEIVED
NOV 26 2007

BY: _____

Test Ticket

Well Name & No. Coberly Unit #1 Test No. 1 Date 11-21-07
 Company Ritchie Exploration Inc Zone Tested Lams "E"
 Address Box 783188, Wichita KS 67278 Elevation 2551 KB 2539 GL
 Co. Rep / Geo. Mike Engelbrecht Rig Murfin #14
 Location: Sec. 3 Twp. 15 Rge. 28w Co. Gove State KS
 Comment: _____ Release date / time: _____

Interval Tested 3774-3800 Initial Str Wt./Lbs. 18000 Unseated Str Wt./Lbs. 59000
 Anchor Length 26' Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 80000
 Top Packer Depth 3769 Tool Weight 1500
 Bottom Packer Depth 3774 Hole Size 7 7/8" ☒ Rubber Size 6 3/4" ☒
 Total Depth 3800 Wt. Pipe Run 0 Drill Collar Run 582
 Mud Wt. 8.9 LCM 1# Vis. 57 WL 8.0 Drill Pipe Size 4 1/2 x 11 Ft. Run 3203
 Blow Description IF: Built to 3 1/2 inches
IS: No return
FF: Built to 4 3/4 inches
FS: No return

Recovery - Total Feet 200 GIP 0 Ft. in DC 200 Ft. in DP 0
 Rec. 15 Feet of MCW %gas %oil 60 %water 40 %mud
 Rec. 155 Feet of 5 MCW %gas %oil 80 %water 20 %mud
 Rec. 30 Feet of M %gas %oil %water 100 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 118 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 171 @ 65 °F Chlorides 48000 ppm Recovery _____ Chlorides 1100 ppm System

	AK-1	Alpine	Recorder No.	Test X
(A) Initial Hydrostatic Mud	<u>1864</u>	PSI	<u>6769</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>13</u>	PSI	<u>3775</u>	Jars _____
(C) First Final Flow Pressure	<u>57</u>	PSI	<u>2607</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1009</u>	PSI	<u>3795</u>	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure	<u>61</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>117</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1003</u>	PSI	Recorder No. _____	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1846</u>	PSI	Initial Opening <u>30</u>	Shale Packer _____
			Initial Shut-In <u>45</u>	Ruined Packer _____
			Final Flow <u>45</u>	Mileage <u>100 x 1.25 = \$125.00</u>
			Final Shut-In <u>60</u>	Sub Total: <u>1225</u>
			T-On Location <u>06:45am</u>	Std. By _____
			T-Started <u>07:50am</u>	Acc. Chg: _____
			T-Open <u>09:55am</u>	Other: _____
			T-Pulled <u>12:55pm</u>	Total: _____
			T-Out <u>05:22pm</u>	

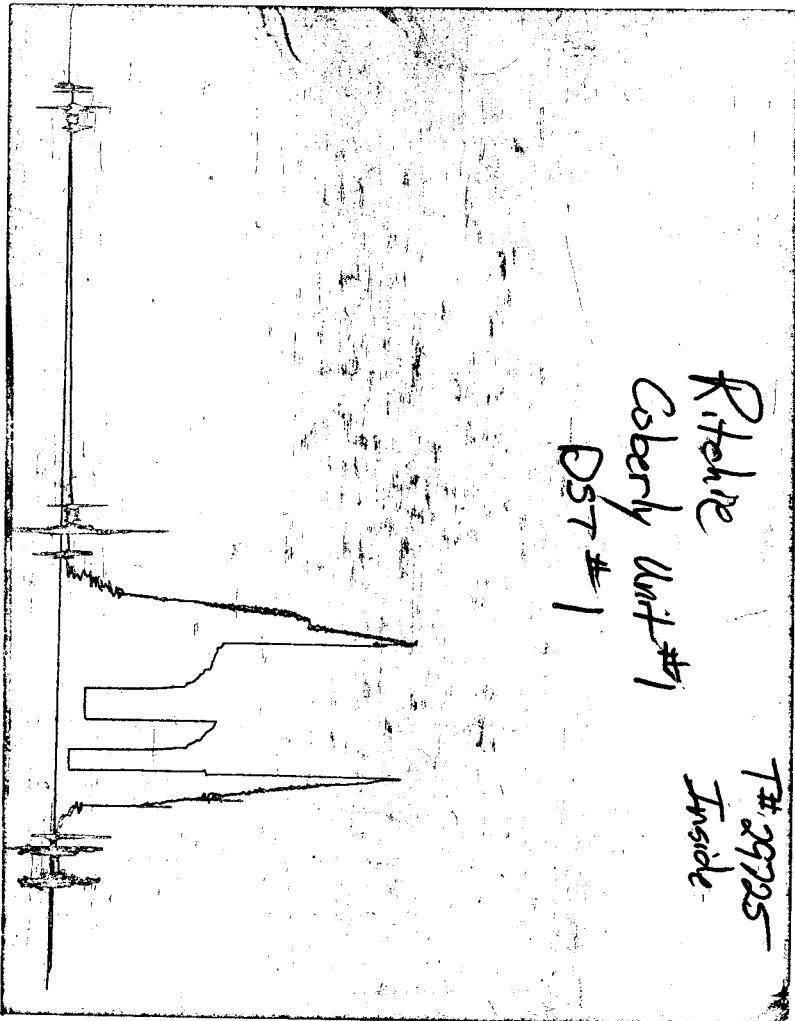
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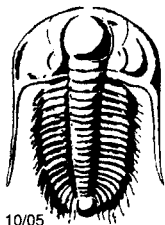
Approved By Mike Engelbrecht
 Our Representative Baron D. J. J.

CHART PAGE

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

Ritchie
Coberly Unit #1
D57 #1
T# 29725
Inside





10/05

**TRILOBITE
TESTING INC.**

P.O. Box 362 • Hays, Kansas 67601

29551

RECEIVED
NOV 26 2007**Test Ticket**

BY: _____

Well Name & No. <u>Coberly Unit #1</u>	Test No. <u>2</u>	Date <u>11-22-07</u>
Company <u>Ritchie Exploration Inc.</u>	Zone Tested <u>Lans "H-I"</u>	
Address <u>Box 783188 Wichita KS 67278</u>	Elevation <u>2551</u> KB <u>2539</u> GL	
Co. Rep / Geo. <u>Mike Engelbrecht</u>	Rig <u>MunSin #14</u>	
Location: Sec. <u>3</u> Twp. <u>15</u> Rge. <u>28w</u> Co. <u>Gove</u> State <u>KS</u>		
Comment: _____	Release date / time: _____	

Interval Tested <u>3853 - 3919</u>	Initial Str Wt./Lbs. <u>20000</u>	Unseated Str Wt./Lbs. <u>76000</u>
Anchor Length <u>66'</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>85000</u>
Top Packer Depth <u>3849</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth <u>3853</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth <u>3919</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>582</u>
Mud Wt. <u>9.2</u> LCM <u>1d</u> Vis. <u>SS</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2 x h</u>	Ft. Run <u>3266</u>

Blow Description IF: BOB in 4 mins.IS: Built to 5 inches died back to 3 inches.FF: BOB in 5 mins.FS: BOB in 20 mins died back to 2 inches

Recovery - Total Feet <u>825</u>	GIP <u>1125</u>	Ft. in DC <u>582</u>	Ft. in DP <u>243</u>
Rec. <u>201</u>	Feet of <u>M+GCO</u>	30 %gas	50 %oil
Rec. <u>531</u>	Feet of <u>HGCO</u>	50 %gas	50 %oil
Rec. <u>93</u>	Feet of <u>O+HGCM</u>	50 %gas	15 %oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
BHT <u>122</u>	*F Gravity <u>39</u>	*API D @ <u>40"</u>	*F Corrected Gravity <u>41</u>
RW _____ @ _____	*F Chlorides _____ ppm	Recovery _____	Chlorides <u>1800</u> ppm System

(A) Initial Hydrostatic Mud <u>AK-1</u>	Alpine <u>1938</u> PSI	Recorder No. <u>6769</u>	Test X <u>1100</u>
(B) First Initial Flow Pressure <u>33</u> PSI	(depth) <u>3854</u>	Jars _____	
(C) First Final Flow Pressure <u>247</u> PSI	Recorder No. <u>2607</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure <u>1010</u> PSI	(depth) <u>3914</u>	Circ Sub <u>X N/C</u>	
(E) Second Initial Flow Pressure <u>255</u> PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure <u>306</u> PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure <u>979</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud <u>1869</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____	

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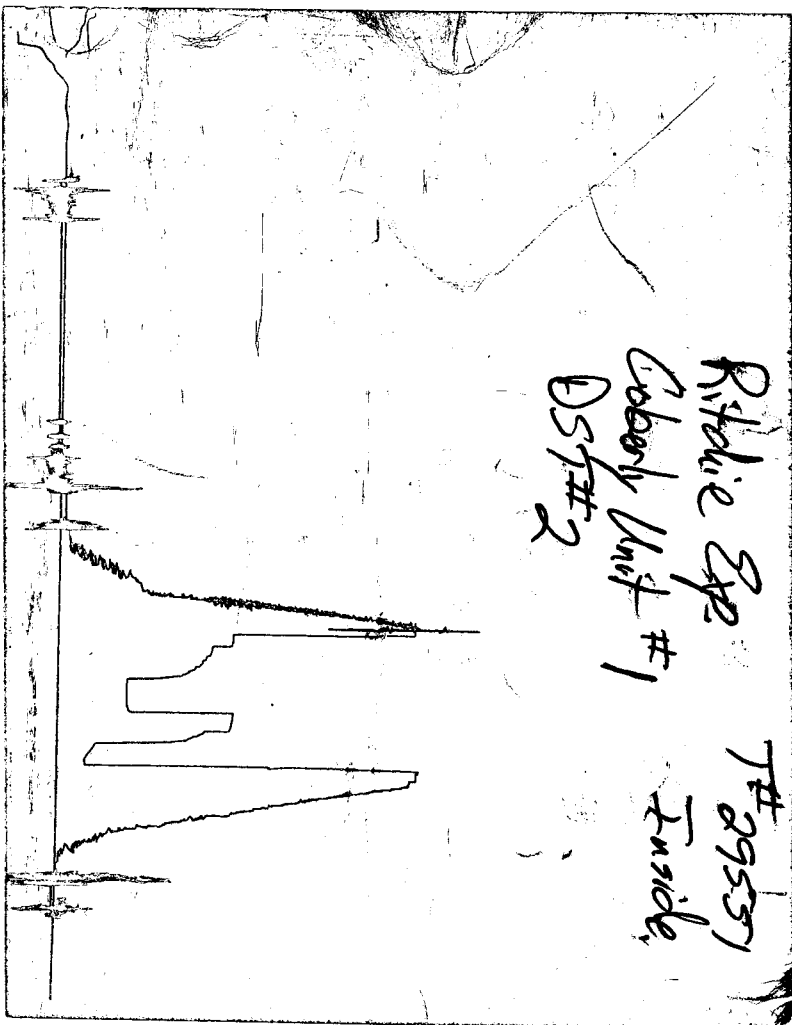
Approved By Mike EngelbrechtOur Representative Brandon Dorsch

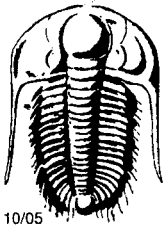
Final Flow <u>45</u>	T-Started <u>02:40am</u>
Final Shut-In <u>60</u>	T-Open <u>05:40am</u>
T-On Location <u>01:45am</u>	T-Pulled <u>08:40am</u>
T-Out <u>11:35am</u>	

Ruined Packer _____	Mileage <u>10x625 = 125.00</u>
Sub Total: <u>122</u>	Std. By _____
Acc. Chg: _____	Other: _____
Total: _____	

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

29552

RECEIVED
NOV 26 2007

BY: _____

Test Ticket

Well Name & No. <u>Coberly Unit #1</u>	Test No. <u>3</u>	Date <u>11-22-07</u>
Company <u>Ritchie Exploration Inc.</u>	Zone Tested <u>Lams "J"</u>	
Address <u>Box 783188 Wichita KS 67278</u>	Elevation <u>2557</u> KB <u>2539</u> GL	
Co. Rep / Geo. <u>Mike Engelbrecht</u>	Rig <u>Murfin #14</u>	
Location: Sec. <u>3</u> Twp. <u>15</u> Rge. <u>28w</u> Co. <u>Gave</u> State <u>KS</u>		
Comment: _____	Release date / time: _____	

Interval Tested <u>3922 - 3960</u>	Initial Str Wt./Lbs. <u>70000</u>	Unseated Str Wt./Lbs. <u>70000</u>
Anchor Length <u>38'</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>85000</u>
Top Packer Depth <u>3918</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth <u>3922</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3960</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>582</u>
Mud Wt. <u>9.1</u> LCM <u>1#</u> Vis. <u>52</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2 xh</u>	Ft. Run <u>3330</u>
Blow Description <u>IF: Built to 5 inches.</u>		
<u>IS: No return.</u>		
<u>FF: Built to 4 1/2 inches.</u>		
<u>FS: No return.</u>		

Recovery - Total Feet <u>190</u>	GIP <u>0</u>	Ft. in DC <u>190</u>	Ft. in DP <u>0</u>
Rec. <u>190</u>	Feet of <u>lightly 0 spotted 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>116</u>	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____
RW _____ @ _____	*F Chlorides _____	ppm Recovery _____	Chlorides <u>1900</u> ppm System

(A) Initial Hydrostatic Mud	<u>1981</u> PSI	Recorder No. <u>6769</u>	Test <u>X</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>15</u> PSI	(depth) <u>3923</u>	Jars	
(C) First Final Flow Pressure	<u>57</u> PSI	Recorder No. <u>2607</u>	Safety Jt.	
(D) Initial Shut-In Pressure	<u>872</u> PSI	(depth) <u>3955</u>	Circ Sub <u>X</u>	<u>50</u>
(E) Second Initial Flow Pressure	<u>62</u> PSI	Recorder No. _____	Sampler	
(F) Second Final Flow Pressure	<u>105</u> PSI	(depth) _____	Straddle	
(G) Final Shut-In Pressure	<u>869</u> PSI	Initial Opening <u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>1950</u> PSI	Initial Shut-In	Shale Packer	

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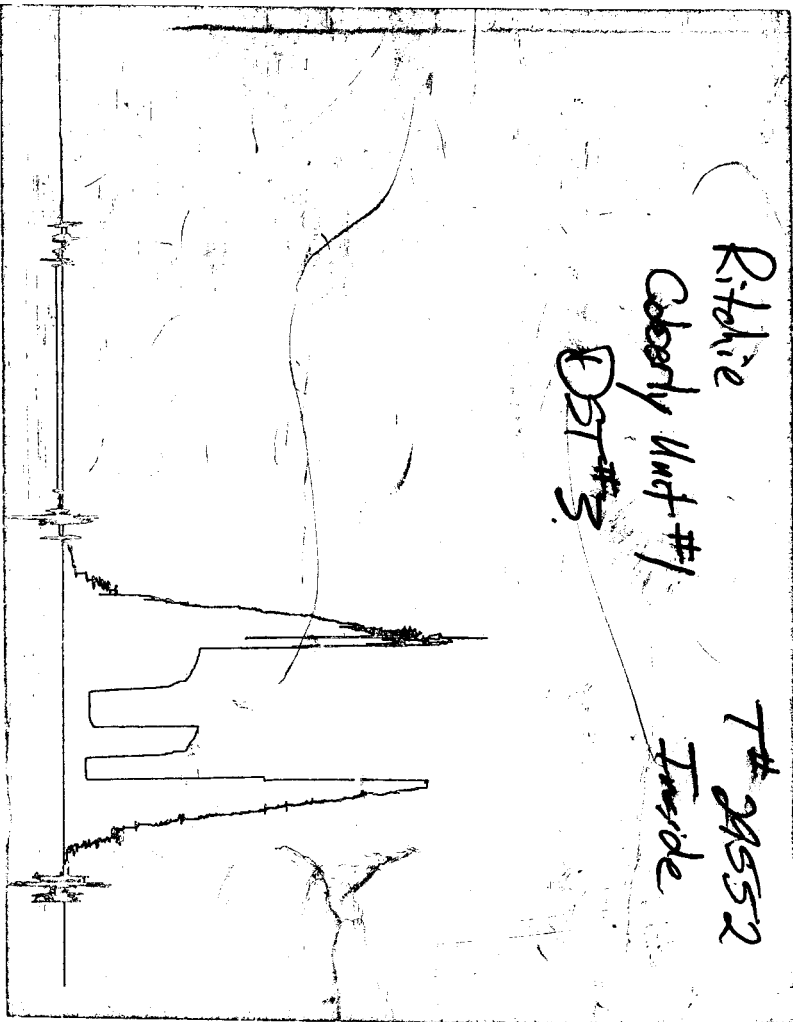
Approved By Mike Engelbrecht
Our Representative Timothy Dorsch

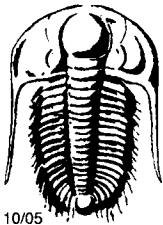
Final Flow 45
Final Shut-In 60
T-On Location 18:45 pm
T-Started 18:58 pm
T-Open 21:00 pm
T-Pulled 00:00 am
T-Out 02:38 am

Test X 1100
Jars _____
Safety Jt. _____
Circ Sub X 50
Sampler _____
Straddle _____
Ext. Packer _____
Shale Packer _____
Ruined Packer X1 \$260.00
Mileage 100 x 1.25 = 125.00
Sub Total: 1275
Std. By _____
Acc. Chg: _____
Other: _____
Total: 1535

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

29553

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Test Ticket

10960

BY: _____

Well Name & No. <u>Cokerly Unit #1</u>	Test No. <u>4</u>	Date <u>11-23-07</u>
Company <u>Ritchie Exploration Inc</u>	Zone Tested <u>Lans "K"</u>	
Address <u>Box 783188 Wichita KS 67278</u>	Elevation <u>2557</u> KB <u>2539</u> GL	
Co. Rep / Geo. <u>Mike Engelbrecht</u>	Rig <u>Murfin #14</u>	
Location: Sec. <u>3</u> Twp. <u>15</u> Rge. <u>28W</u> Co. <u>Gove</u> State <u>KS</u>		
Comment: _____	Release date / time: _____	

Interval Tested <u>3950 - 3992</u>	Initial Str Wt./Lbs. <u>72000</u>	Unseated Str Wt./Lbs. <u>72000</u>
Anchor Length <u>42'</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>92000</u>
Top Packer Depth <u>3946</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth <u>3950</u>	Hole Size 7 7/8" ☒	Rubber Size 6 3/4" ☒
Total Depth <u>3992</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>582</u>
Mud Wt. <u>9.1</u> LCM <u>1st</u> Vis. <u>58</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2 x h</u>	Ft. Run <u>3361</u>

Blow Description IF: Built to 7 1/2 inches.

IS: Built to 5 inches

EF: Surface blow, Flushed tool, Surface blow died in 6 mins.

FS: Surface blow died in 6 mins.

Recovery - Total Feet <u>290</u>	GIP <u>0</u>	Ft. in DC <u>290</u>	Ft. in DP <u>0</u>
Rec. <u>10</u> Feet of <u>MCW</u>	%gas	%oil <u>65</u>	%water <u>35</u> %mud
Rec. <u>250</u> Feet of <u>SMCW</u>	%gas	%oil <u>95</u>	%water <u>5</u> %mud
Rec. <u>30</u> Feet of <u>M</u>	%gas	%oil	%water <u>100</u> %mud
Rec. _____ Feet of _____	%gas	%oil	%water _____ %mud
Rec. _____ Feet of _____	%gas	%oil	%water _____ %mud
BHT <u>118</u> °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API			
RW <u>0.121</u> @ <u>72</u> °F Chlorides <u>65000</u> ppm Recovery _____ Chlorides <u>1900</u> ppm System			

(A) Initial Hydrostatic Mud <u>1981</u> PSI	Recorder No. <u>6769</u>	Test <u>X</u> <u>1100</u>
(B) First Initial Flow Pressure <u>19</u> PSI	(depth) <u>3951</u>	Jars _____
(C) First Final Flow Pressure <u>83</u> PSI	Recorder No. <u>2607</u>	Safety Jt. <u>3</u>
(D) Initial Shut-In Pressure <u>155</u> PSI	(depth) <u>3987</u>	Circ Sub <u>N/C</u>
(E) Second Initial Flow Pressure <u>207</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure <u>840</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure <u>871</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud <u>1968</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____
	Final Flow <u>45</u>	Ruined Packer _____
	Final Shut-In <u>60</u>	Mileage <u>100 x 1.25 = 125.00</u>

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Approved By Mike Engelbrecht

Our Representative Brandon Dorsch

T-On Location 09:45 am

T-Started 10:26 am

T-Open 12:36 pm

T-Pulled 15:36 pm

T-Out 17:50 pm

Sub Total: 1225

Std. By _____

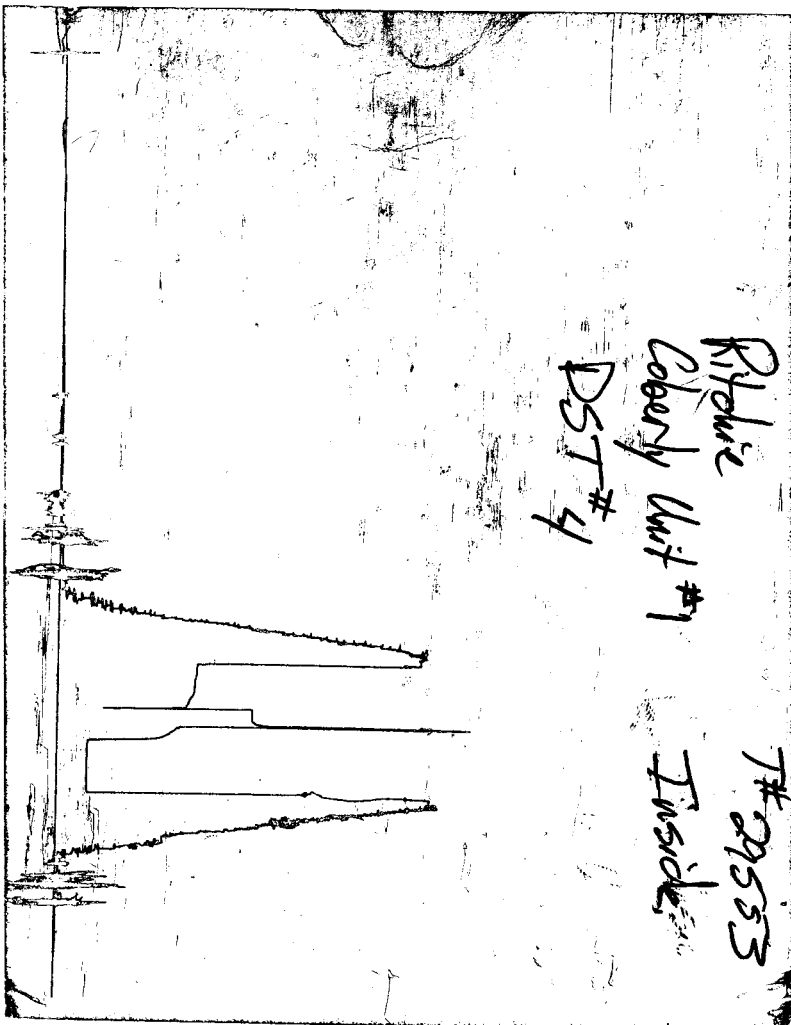
Acc. Chg: _____

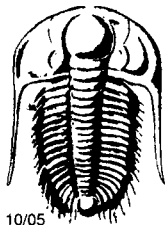
Other: _____

Total: _____

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

29554

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DEC 03 2007

Test Ticket

BY: _____

Well Name & No. <u>Coberly Unit #1</u>	Test No. <u>5</u>	Date <u>11-24-07</u>
Company <u>Ritchie Exploration Inc.</u>	Zone Tested <u>FT Scott</u>	
Address <u>Box 783188 Wichita KS 67278</u>	Elevation <u>2551</u>	KB <u>2539</u> GL
Co. Rep / Geo. <u>Mike Engelbrecht</u>	Rig <u>Murfin #14</u>	
Location: Sec. <u>3</u> Twp. <u>15</u> Rge. <u>28w</u>	Co. <u>Gove</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>4183 - 4237</u>	Initial Str Wt./Lbs. <u>73000</u>	Unseated Str Wt./Lbs. <u>75000</u>
Anchor Length <u>54'</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>82000</u>
Top Packer Depth <u>4179</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth <u>4183</u>	Hole Size 7 7/8" ☒	Rubber Size 6 3/4" ☒
Total Depth <u>4237</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>582</u>
Mud Wt. <u>9.2</u> LCM <u>1#</u> Vis. <u>57</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2 xh</u>	Ft. Run <u>3584</u>

Blow Description IF: BOB in 18 mins.
IS: Built to 1/4 inch died in 34 mins.

FF: BOB in 31 mins.
FS: Built to 3/4 inch died back to 1/4 inch

Recovery - Total Feet <u>665</u>	GIP <u>75</u>	Ft. in DC <u>582</u>	Ft. in DP <u>83</u>
Rec. <u>15</u> Feet of <u>SW+OCM</u>	%gas	%oil	%water
Rec. <u>279</u> Feet of <u>MCW</u>	%gas	%oil	%water
Rec. <u>356</u> Feet of <u>5 MCW</u>	%gas	%oil	%water
Rec. <u>15</u> Feet of <u>M</u>	%gas	%oil	%water
BHT <u>129</u> °F Gravity	*API D @	*F Corrected Gravity	*API
RW <u>.126</u> @ <u>76</u> °F	Chlorides <u>58000</u> ppm Recovery	Chlorides <u>3000</u> ppm System	

(A) Initial Hydrostatic Mud	AK-1	Alpine	2095 PSI	Recorder No. <u>6769</u>	TestX <u>1200</u>
(B) First Initial Flow Pressure			21 PSI	(depth) <u>4184</u>	Jars
(C) First Final Flow Pressure			196 PSI	Recorder No. <u>2607</u>	Safety Jt.
(D) Initial Shut-In Pressure			1086 PSI	(depth) <u>41835</u>	Circ SubX <u>N/C</u>
(E) Second Initial Flow Pressure			211 PSI	Recorder No.	Sampler
(F) Second Final Flow Pressure			306 PSI	(depth)	Straddle
(G) Final Shut-In Pressure			1052 PSI	Initial Opening <u>30</u>	Ext. Packer
(Q) Final Hydrostatic Mud			2065 PSI	Initial Shut-In <u>45</u>	Shale Packer

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Approved By Mike Engelbrecht
 Our Representative Barbara Donoh

Final Flow	<u>45</u>	Ruined Packer	
Final Shut-In	<u>60</u>	Mileage <u>100 x 1.25 = \$125.00</u>	
T-On Location	<u>13:45 pm</u>	Sub Total:	<u>1325</u>
T-Started	<u>14:41 pm</u>	Std. By	
T-Open	<u>16:50 pm</u>	Acc. Chg:	
T-Pulled	<u>19:50 pm</u>	Other:	
T-Out	<u>22:23 pm</u>	Total:	

8.5

CHART PAGE

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