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DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17st Ste 900
Denver, CO 80202

ATTN: Gary Doke/ Jim Musgro

28-18-31 Scott, KS

Long 5A-28-1831

Start Date: 2010.10.19 @ 02:23:16

End Date: 2010.10.19 @ 09:44:10

Job Ticket #: 040261 DST #: 1

*Added
copies in
log file*

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

ORIGINAL

DRILL STEM TEST REPORT



FML Natural Resources

Long 5A-28-1831

28-18-31 Scott, KS

Job Ticket: 040261

DST#: 1

410 17st Ste 900

Denver, CO 80202

ATTN: Gary Doke/Jim Musgrover, CO 80202

Test Start: 2010.10.19 @ 02:23:16

GENERAL INFORMATION:

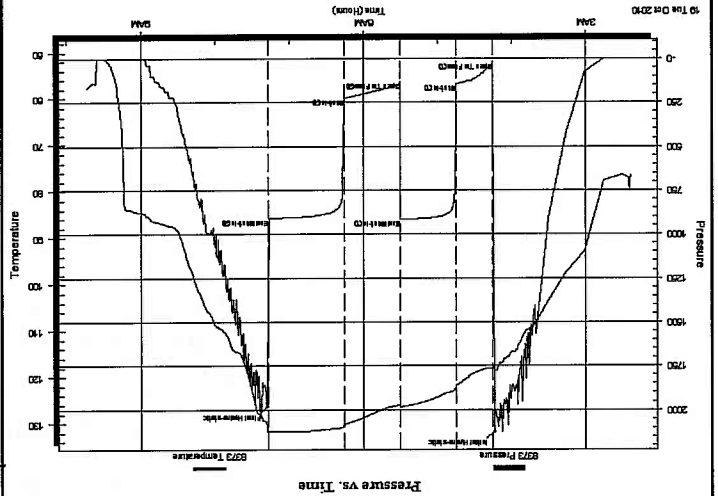
Formation: Lansing G
 Deviated: No
 Whipslock: ft (KB)
 Time Tool Opened: 04:14:56
 Time Test Ended: 09:44:10
 Interval: 4107.00 ft (KB) To 4152.00 ft (KB) (TVD)
 Total Depth: 4152.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Good
 KB to GRCF: 10.00 ft
 Reference Elevations: 2963.00 ft (KB)
 2953.00 ft (CF)
 Test Type: Conventional Bottom Hole
 Tester: Brandon Turley
 Unit No: 32

Serial #: 8373
 Inside
 Press@RunDepth: 226.77 psig @ 4108.00 ft (KB)
 Start Date: 2010.10.19
 End Date: 2010.10.19
 Start Time: 02:23:16
 End Time: 09:44:10
 Capacity: 8000.00 psig
 Last Calib.: 2010.10.19
 Time On Btm: 2010.10.19 @ 04:14:11
 Time Off Btm: 2010.10.19 @ 07:17:40

TEST COMMENT: IF: 1/4 blow BOB in 21 min.
 IS: No return.
 FF: Surface blow BOB in 27 min.
 FS: No return.

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.89	118.58	Initial Hydro-static
1	24.25	117.66	Open To Flow (1)
31	144.28	121.83	Shut-in(1)
76	916.38	126.37	End Shut-in(1)
76	135.17	125.81	Open To Flow (2)
121	226.77	130.15	Shut-in(2)
183	909.61	131.56	End Shut-in(2)
184	1978.54	130.25	Final Hydro-static



Length (ft)	Description	Volume (bbl)
248.00	mcw trace of oil 90%w 10%w	1.27
124.00	mcw trace of oil 60%w 40%w	1.74
62.00	90CW m 10%w 10%w 40%w 40%w	0.87
62.00	go 5%w 95%w	0.87

Recovery

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)
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TOOL DIAGRAM

DRILL STEM TEST REPORT



FML Natural Resources

Long 5A-28-1831

28-18-31 Scott, KS

Job Ticket: 040261 DST#: 1

410 17st Ste 900

ATTN: Gary Duke/ Jim Musgrover, CO 80202

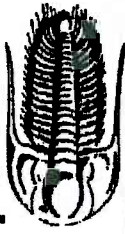
Test Start: 2010.10.19 @ 02:23:16

Tool Information

Drill Pipe:	Length:	3868.00 ft	Diameter:	3.80 inches	Volume:	54.26 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:	242.00 ft	Diameter:	2.25 inches	Volume:	1.19 bbl	Weight to Pull Loose:	70000.00 lb
Tool Chased								
String Weight: Initial			60000.00 lb			Final		
64000.00 lb			0.00 ft			Total Volume:		
55.45 bbl			23.00 ft			Depth to Top Packer:		
4107.00 ft			ft			Depth to Bottom Packer:		
Interval between Packers:			45.00 ft			Tool Length:		
65.00 ft			Diameter:			6.75 inches		
2			Number of Packers:			Tool Comments:		

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

Stub	1.00	4088.00			
Shut In Tool	5.00	4093.00			
Hydraulic tool	5.00	4098.00			
Packer	5.00	4103.00			Bottom Of Top Packer
Packer	4.00	4107.00			
Stub	1.00	4108.00			
Recorder	0.00	4108.00	Inside	8373	
Recorder	0.00	4108.00	Outside	8289	
Perforations	5.00	4113.00			
Change Over Sub	1.00	4114.00			
Drill Pipe	32.00	4146.00			
Change Over Sub	1.00	4147.00			
Bullnose	5.00	4152.00			Bottom Packers & Anchor
Total Tool Length: 65.00					



DRILL STEM TEST REPORT
FLUID SUMMARY

FIML Natural Resources
410 17st Ste 900
Denver, CO 80202
ATTN: Gary Doke/ Jim Musgrover, CO 80202
28-18-31 Scott, KS
Job Ticket: 040261
DST#: 1
Test Start: 2010.10.19 @ 02:23:16

Mud and Cushion Information
Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 59.00 sec/qt
Water Loss: 7.95 in³
Resistivity: 0.00 ohm.m
Salinity: 2500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 29 deg API
Water Salinity: 32000 ppm

Recovery Information

Length ft	Description	Volume bbl
248.00	mcw trace of oil 90%w 10%w	1.274
124.00	mcw trace of oil 60%w 40%w	1.739
62.00	gocw m 10%g 10%o 40%w 40%w	0.870
62.00	go 5%g 95%o	0.870

Total Length: 496.00 ft
Total Volume: 4.753 bbl
Num Fluid Samples: 0
Num Gas Bombs: 0
Laboratory Name:
Laboratory Location:
Recovery Comments: 29@60=29
.30@53=32000

Serial #: 8373

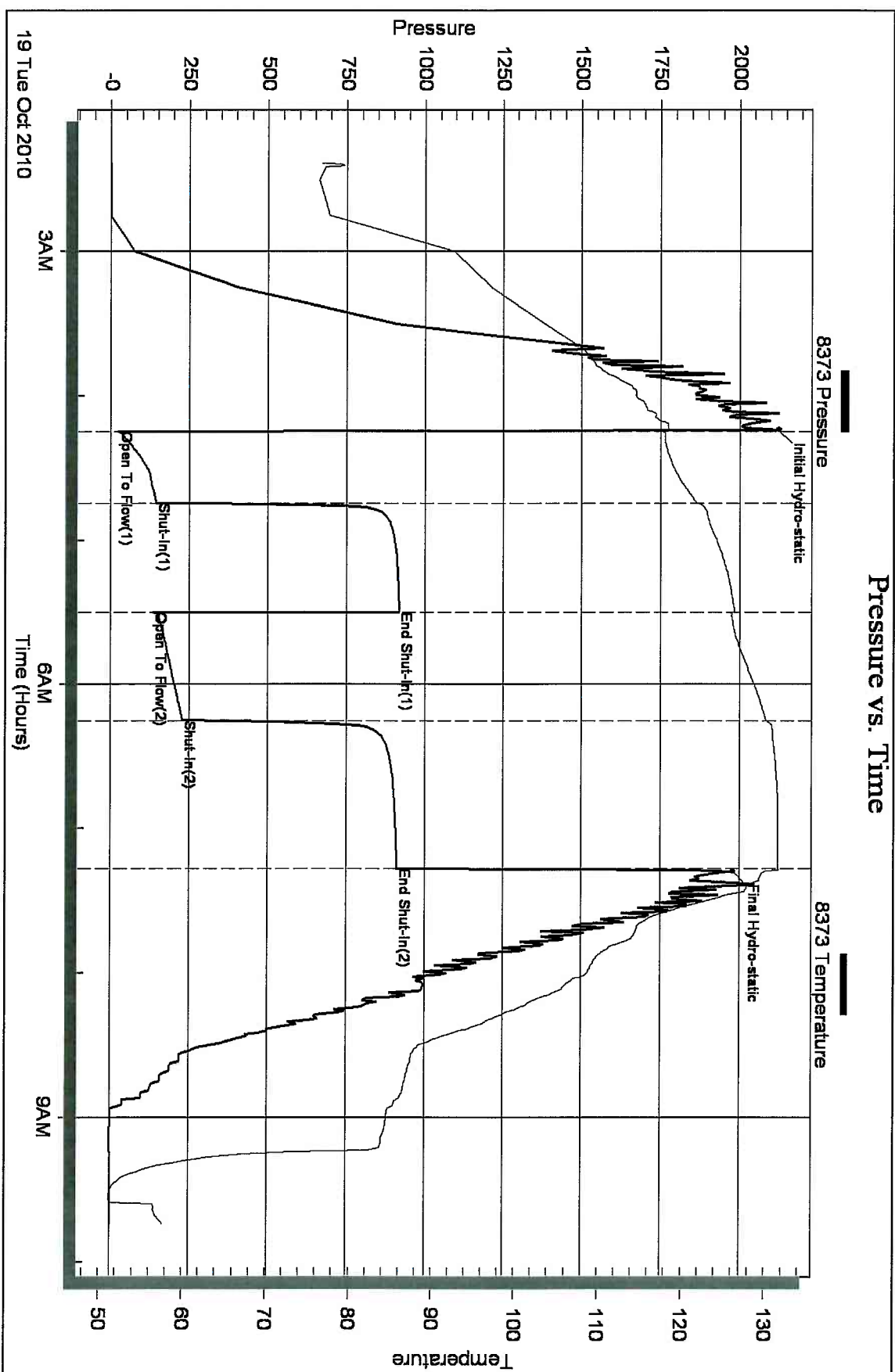
Inside

FIML Natural Resources

28-18-31 Scott, KS

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17st Ste 900
Denver, CO 80202

ATTN: Gary Doke/ Jim Musgro

28-18-31 Scott, KS

Long 5A-28-1831

Start Date: 2010.10.19 @ 18:33:51

End Date: 2010.10.20 @ 00:28:15

Job Ticket #: 040262 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRIBOLITE
TESTING, INC.

FML Natural Resources

410 17st Ste 900
Denver, CO 80202

ATTN: Gary Doke/ Jim Musgrover, CO 80202

Long 5A-28-1831
28-18-31 Scott, KS
Job Ticket: 040262
DST#: 2

Test Start: 2010.10.19 @ 18:33:51

GENERAL INFORMATION:

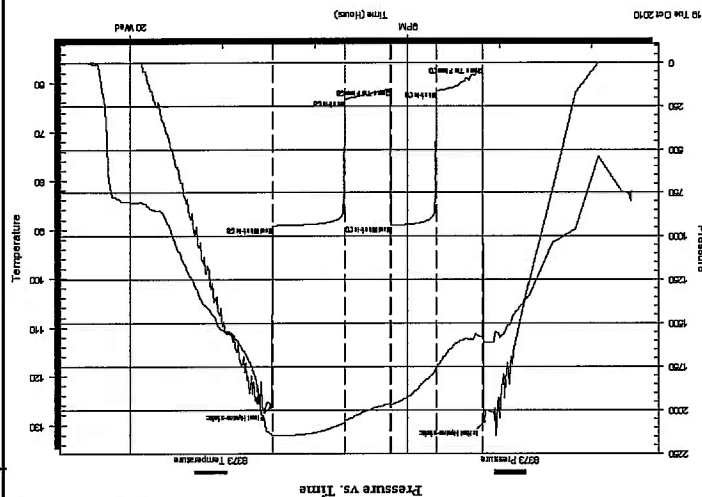
Formation: H-I
Deviated: No
Whipstock: ft (KB)
Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 32
Reference Elevations: 2963.00 ft (KB)
2953.00 ft (CF)
10.00 ft
Interval: 4165.00 ft (KB) To 4212.00 ft (KB) (TVD)
Total Depth: 4212.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches/Hole Condition: Good

Serial #: 8373
Inside
Press@RunDepth: 212.61 psig @ 4166.00 ft (KB)
Start Date: 2010.10.19
End Date: 2010.10.19
Start Time: 18:33:51
End Time: 00:28:15

Capacity: 8000.00 psig
Last Callb.: 2010.10.20
Time On Btm: 2010.10.19 @ 20:10:16
Time Off Btm: 2010.10.19 @ 22:29:01

TEST COMMENT:

IF: 1/4 blow BOB in 21 min.
IS: No return.
FF: Surface blow BOB in 28 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2067.95	113.05	Initial Hydro-static
1	21.95	112.02	Open To Flow (1)
32	162.92	118.10	Shut-In (1)
61	939.42	125.85	End Shut-In (1)
61	153.78	125.61	Open To Flow (2)
91	212.61	129.15	Shut-In (2)
138	940.79	132.06	End Shut-In (2)
139	1979.69	131.65	Final Hydro-static

Gas Rates

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

Length (ft)	Description	Volume (bbl)
310.00	mcw 90%w 10%w	2.14
134.00	w cm 40%w 60%w	1.88

Ref. No: 040262

Tribolite Testing, Inc

DRILL STEM TEST REPORT

TOOL DIAGRAM

DRILL STEM TEST REPORT



FML Natural Resources

Long 5A-28-1831

28-18-31 Scott, KS

Job Ticket: 040262 DST#: 2

ATTN: Gary Doke/ Jim Musgrover, CO 80202 Test Start: 2010.10.19 @ 18:33:51

410 17st Ste 900
Denver, CO 80202

Tool Information

Drill Pipe:	Length: 3930.00 ft	Diameter: 3.80 inches	Volume: 55.13 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 75000.00 lb
Drill Pipe Above KB:	27.00 ft	Total Volume: 56.32 bbl		Tool Chased 0.00 ft
Depth to Top Packer:	4165.00 ft			String Weight: Initial 60000.00 lb
Depth to Bottom Packer:	ft			Final 64000.00 lb
Interval between Packers:	47.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

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

Stub	1.00			4146.00	
Shut In Tool	5.00			4151.00	
Hydraulic tool	5.00			4156.00	
Packer	5.00			4161.00	Bottom Of Top Packer
Packer	4.00			4165.00	
Stub	1.00			4166.00	
Recorder	0.00	8373	Inside	4166.00	
Recorder	0.00	8289	Outside	4166.00	
Perforations	7.00			4173.00	
Change Over Sub	1.00			4174.00	
Drill Pipe	32.00			4206.00	
Change Over Sub	1.00			4207.00	
Bullnose	5.00			4212.00	Bottom Packers & Anchor
Total Tool Length: 67.00					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources
410 17st Ste 900
Denver, CO 80202

ATTN: Gary Doke/ Jim Musgrover, CO 80202

Test Start: 2010.10.19 @ 18:33:51

Job Ticket: 040262
DST#: 2

28-18-31 Scott, KS
Long 5A-28-1831

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 16.73 in³
Resistivity: 0.00 ohm.m
Salinity: 3800.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 3800 ppm

Recovery Information

Length ft	Description	Volume bbl
310.00	mcw 90%w 10%w	2.144
134.00	w cm 40%w 60%w	1.880

Total Length: 444.00 ft
Total Volume: 4.024 bbl

Num Fluid Samples: 0
Num Gas Bombs: 0
Laboratory Name:
Laboratory Location:
Recovery Comments: .27@51=38000

Recovery Table

Serial #: 8373

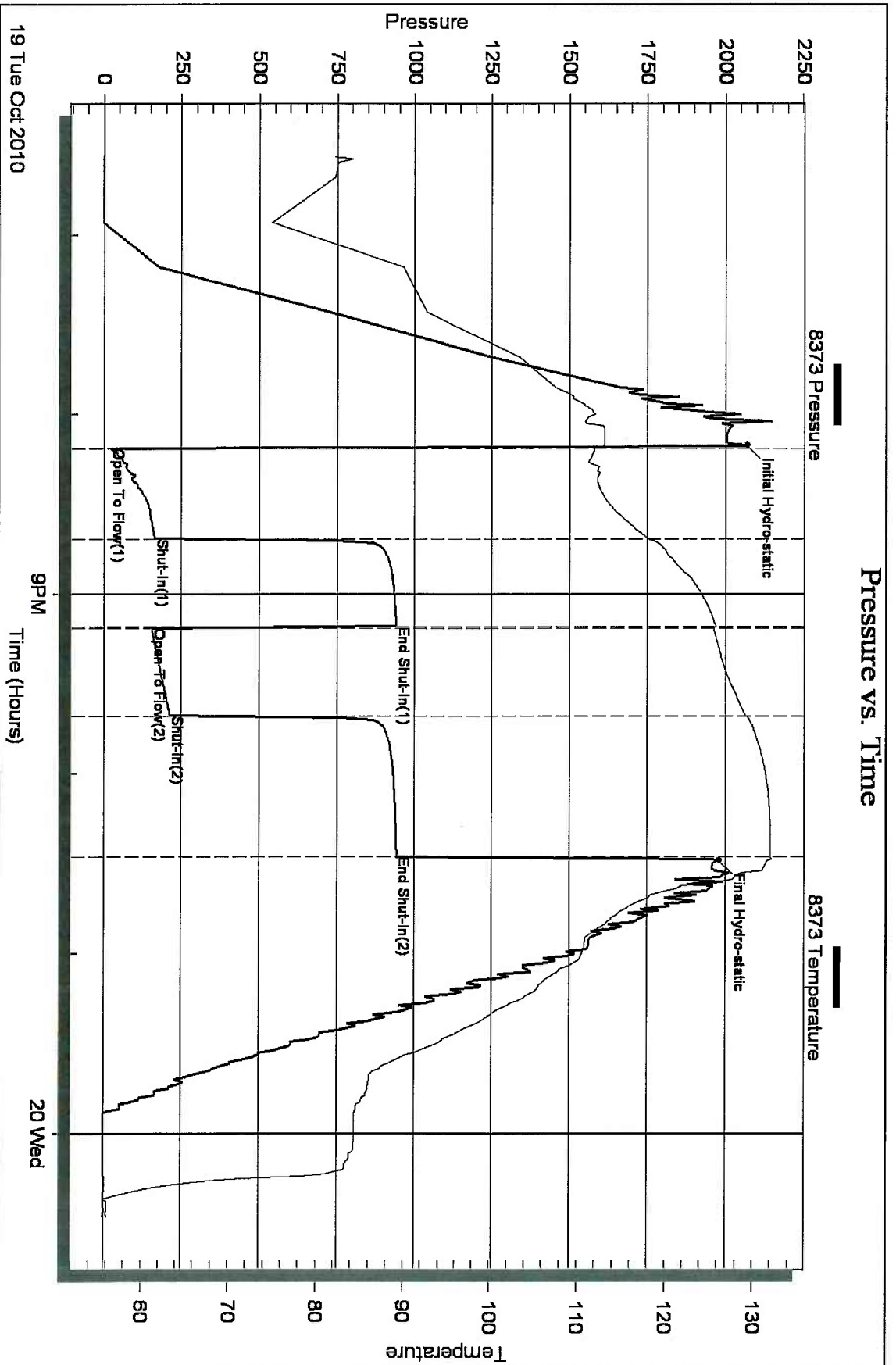
Inside

FIML Natural Resources

28-18-31 Scott, KS

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17st Ste 900
Denver, CO 80202

ATTN: Gary Doke/ Jim Musgro

28-18-31 Scott, KS

Long 5A-28-1831

Start Date: 2010.10.20 @ 11:01:13

End Date: 2010.10.20 @ 17:17:37

Job Ticket #: 040263 DST #: 3

Triobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

DRILL STEM TEST REPORT



FML Natural Resources

Long 5A-28-1831

28-18-31 Scott, KS

Job Ticket: 040263 DST#: 3

410 17st Ste 900

ATTN: Gary Doker/ Jim Musgrover, CO 80202

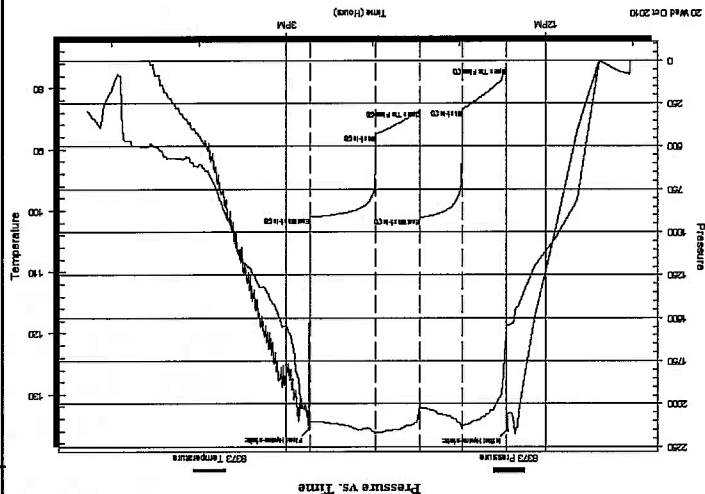
Test Start: 2010.10.20 @ 11:01:13

GENERAL INFORMATION:

Formation: J&K
 Deviated: No
 Whipstock: ft (KB)
 Time Tool Opened: 12:27:53
 Time Test Ended: 17:17:37
 Interval: 4222.00 ft (KB) To 4286.00 ft (KB) (TVD)
 Total Depth: 4286.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Good
 Reference Elevations: 2963.00 ft (KB)
 KB to GRCF: 10.00 ft

Serial #: 8373
 Inside
 Press@RunDepth: 431.66 psig @ 4223.00 ft (KB)
 Start Date: 2010.10.20
 End Date: 2010.10.20
 Start Time: 11:01:13
 End Time: 17:17:37
 Capacity: 8000.00 psig
 Last Calib.: 2010.10.20
 Time On Btm: 2010.10.20 @ 12:26:53
 Time Off Btm: 2010.10.20 @ 14:43:53

TEST COMMENT:
 IF: BOB in 5 min.
 IS: Surface blow built to 1 in 30 min.
 FF: 1/4 blow BOB in 7 min.
 FS: Surface blow built to 1/2 in 45 min.



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.93	118.61	Initial Hydro-static
1	40.92	120.32	Open To Flow (1)
31	283.55	135.04	Shut-In(1)
61	914.63	132.11	End Shut-In(1)
61	290.20	131.95	Open To Flow (2)
91	431.66	136.26	Shut-In(2)
137	911.97	134.40	End Shut-In(2)
137	2144.40	134.75	Final Hydro-static

PRESSURE SUMMARY

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Recovery

Length (ft)	Description	Volume (bbl)
366.00	mcw trace of oil 95%w 5%w	2.93
310.00	gocmw 30%g 20%o 45%w 5%w	4.35
155.00	gocmw 10%g 30%o 40%w 20%w	2.17
62.00	go 10%g 90%o	0.87
0.00	217 GIP	0.00

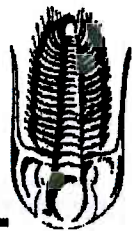
Trilobite Testing, Inc

Ref. No: 040263

Printed: 2010.11.03 @ 20:12:32 Page 2

TOOL DIAGRAM

DRILL STEM TEST REPORT



FML Natural Resources

Long 5A-28-1831

28-18-31 Scott, KS

Job Ticket: 040263 DST#: 3

Test Start: 2010.10.20 @ 11:01:13

410 17st Ste 900
Denver, CO 80202

ATTN: Gary Doke/ Jim Musgrover, CO 80202

Tool Information

Drill Pipe:	Length:	3992.00 ft	Diameter:	3.80 inches	Volume:	56.00 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:	242.00 ft	Diameter:	2.25 inches	Volume:	1.19 bbl	Weight to Pull Loose:	80000.00 lb
Drill Pipe Above KB:	Length:	32.00 ft			Total Volume:	57.19 bbl	Tool Chased	0.00 ft
Depth to Top Packer:	Length:	4222.00 ft					String Weight: Initial	60000.00 lb
Depth to Bottom Packer:	Length:	ft					Final	66000.00 lb
Interval between Packers:	Length:	64.00 ft						
Tool Length:	Length:	84.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

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

Stub	1.00	4203.00						
Shut In Tool	5.00	4208.00						
Hydraulic tool	5.00	4213.00						
Packer	5.00	4218.00						Bottom Of Top Packer
Packer	4.00	4222.00						
Stub	1.00	4223.00						
Recorder	0.00	4223.00	8373	Inside				
Recorder	0.00	4223.00	8289	Outside				
Perforations	24.00	4247.00						
Change Over Sub	1.00	4248.00						
Drill Pipe	32.00	4280.00						
Change Over Sub	1.00	4281.00						
Bullnose	5.00	4286.00						Bottom Packers & Anchor
Total Tool Length:		84.00						

FLUID SUMMARY

FML Natural Resources

Long 5A-28-1831

28-18-31 Scott, KS

410 17st Ste 900
Denver, CO 80202

Job Ticket: 040263
DST#: 3

DST#: 3

Test Start: 2010.10.20 @ 11:01:13

ATTN: Gary Duke/Jim Musgrove, CO 80202

Mud Type: Gel Chem

Mud Type:	Gel Chem
Mud Weight:	9.00 lb/gal
Viscosity:	68.00 sec/qt
Water Loss:	9.56 in ³
Resistivity:	0.00 ohm.m
Salinity:	4200.00 ppm
Filter Cake:	2.00 inches

Recovery Table

Length ft	Description	Volume bbl
366.00	mcw trace of oil 95%w 5%w	2.930
310.00	gocmw 30%g 20%o 45%w 5%w	4.348
155.00	gocmw 10%g 30%o 40%w 20%w	2.174
62.00	go 10%g 90%o	0.870
0.00	217 GP	0.000

Num Fluid Samples: 0	893.00 ft	Total Length:
Num Gas Bombs: 0	10.322 bbl	Total Volume:
Serial #:		

Laboratory Name: Recovery Comments: 29@80=27
Laboratory Location:

00073=58@.16

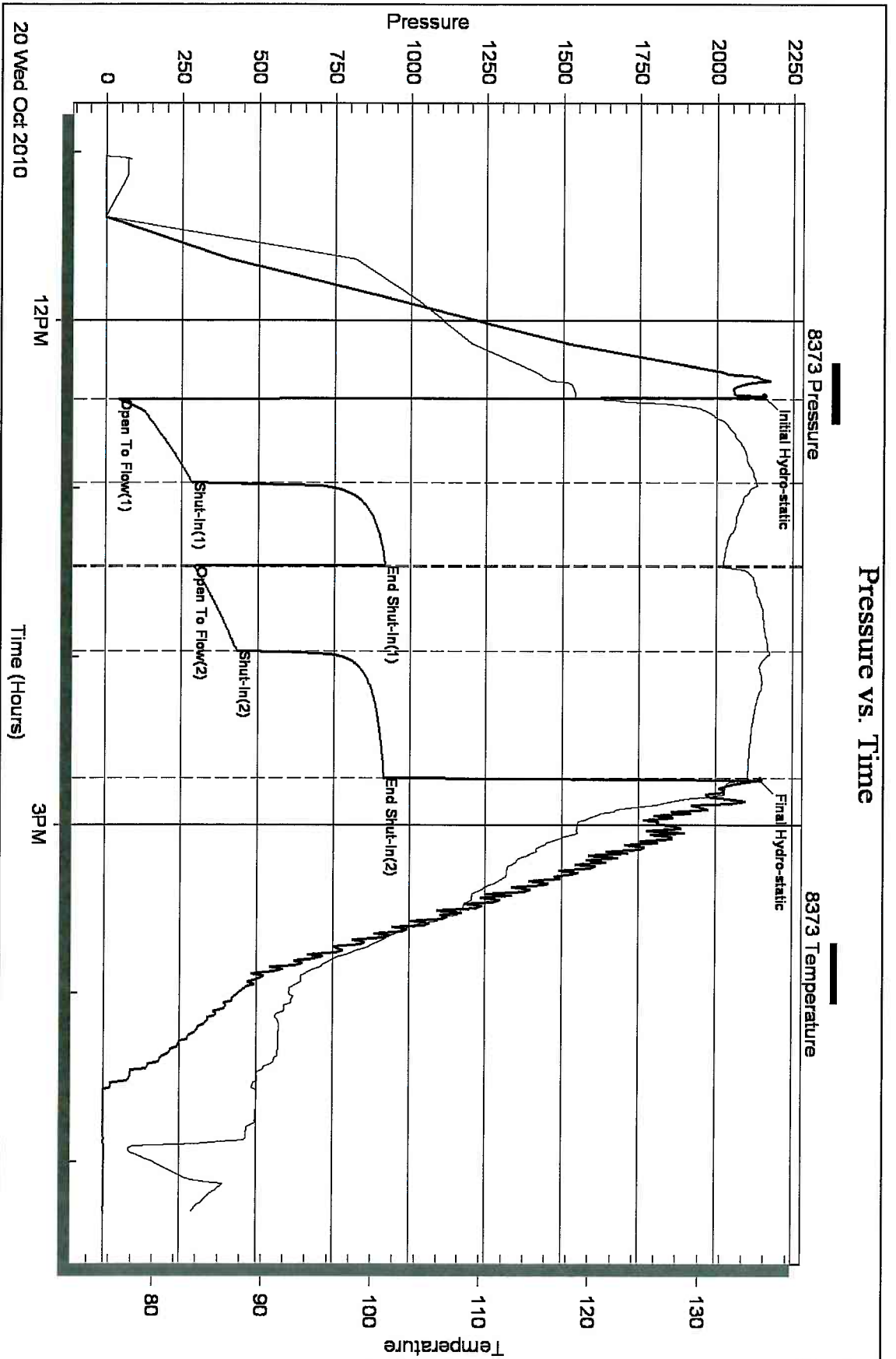
Serial #: 8373

Inside

FIML Natural Resources

28-18-31 Scott, KS

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17st Ste 900
Denver, CO 80202

ATTN: Gary Doke/ Jim Musgro

28-18-31 Scott, KS

Long 5A-28-1831

Start Date: 2010.10.21 @ 21:26:39

End Date: 2010.10.22 @ 04:11:33

Job Ticket #: 040264 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



DRILL STEM TEST REPORT

FIML Natural Resources

Long 5A-28-1831

28-18-31 Scott, KS

Job Ticket: 040264
DST#: 4

410 17st Ste 900
Denver, CO 80202

ATTN: Gary Duke/ Jim Musgrove, CO 80202

Test Start: 2010.10.21 @ 21:26:39

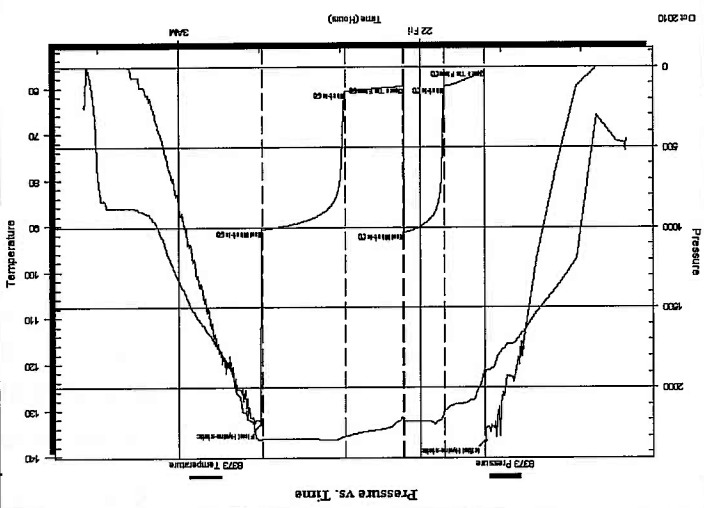
GENERAL INFORMATION:

Formation: Miss Spergen
Deviated: No Whipstock:
Time Tool Opened: 23:12:34
Time Test Ended: 04:11:33
Interval: 4574.00 ft (KB) To 4604.00 ft (KB) (TVD)
Total Depth: 4604.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Good
Reference Elevations: 2963.00 ft (KB)
KB to GRCF: 10.00 ft

Serial #: 8373
Inside
Press@RunDepth: 155.37 psig @ 4575.00 ft (KB)
Start Date: 2010.10.21
End Date: 2010.10.22
Start Time: 21:26:39
End Time: 04:11:33
Capacity: 8000.00 psig
Last Callb.: 2010.10.22
Time On Btm: 2010.10.21 @ 23:11:49
Time Off Btm: 2010.10.22 @ 01:58:48

TEST COMMENT:

IF: 1/4 blow BOB in 24 min.
IS: Weak surface blow died in 15 min.
FF: 1/4 blow BOB in 19 min.
FS: Surface blow built to 8 in 60 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2325.68	121.52	Initial Hydro-static
1	21.08	120.84	Open To Flow (1)
31	119.57	130.07	Shut-In(1)
61	1034.60	132.36	End Shut-In(1)
61	120.25	131.97	Open To Flow (2)
105	155.37	135.60	Shut-In(2)
166	1014.61	136.16	End Shut-In(2)
167	2225.42	136.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	w mcgo 20%g 40%o 10%w 30%lm	0.30
124.00	gocm 5%g 25%o 70%lm	0.61
62.00	gocm 5%g 45%o 50%lm	0.36
129.00	go 5%g 95%o	1.81
0.00	377GIP	0.00

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TOOL DIAGRAM

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.



FIML Natural Resources

Long 5A-28-1831

28-18-31 Scott, KS

Job Ticket: 040264 DST#:4

ATTN: Gary Doke/ Jim Musgrover, CO 80202 Test Start: 2010.10.21 @ 21:26:39

410 17st Ste 900
Denver, CO 80202

Tool Information

Drill Pipe:	Length: 4338.00 ft	Diameter:	3.80 inches	Volume: 60.85 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: 242.00 ft	Diameter:	2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose:	75000.00 lb
Drill Pipe Above KB:	26.00 ft	Total Volume:		62.04 bbl	Tool Chased	0.00 ft
Depth to Top Packer:	4574.00 ft	String Weight: Initial		62000.00 lb	Final	64000.00 lb
Depth to Bottom Packer:	ft	Interval between Packers:		30.00 ft	Tool Length:	50.00 ft
Number of Packers:	2	Diameter:	6.75 inches	Tool Comments:		

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

Stub	1.00	4555.00			
Shut in Tool	5.00	4560.00			
Hydraulic tool	5.00	4565.00			
Packer	5.00	4570.00			
Packer	4.00	4574.00			
Stub	1.00	4575.00			
Recorder	0.00	4575.00	Inside	8373	
Recorder	0.00	4575.00	Outside	8289	
Perforations	24.00	4599.00			
Bullnose	5.00	4604.00			
Total Tool Length:		50.00			

Bottom Packers & Anchor

30.00

Bottom Of Top Packer

20.00



TRIBOLITE TESTING, INC.

DRILL STEM TEST REPORT
FLUID SUMMARY

FIML Natural Resources
 410 17st Ste 900
 Denver, CO 80202
 ATTN: Gary Doker/Jim Musgrover, CO 80202
 Test Start: 2010.10.21 @ 21:26:39
 Job Ticket: 040264
 DST#: 4

Long 5A-28-1831
28-18-31 Scott, KS
 Oil API: 30 deg API
 Water Salinity: 0 ppm

Mud and Cushion Information
 Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 68.00 sec/qt
 Water Loss: 10.77 in³
 Resistivity: 0.00 ohm.m
 Salinity: 3500.00 ppm
 Filter Cake: 1.00 inches

Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type: psig
 Gas Cushion Pressure:

Recovery Information

Length ft	Description	Volume bbl
62.00	w mcgo 20%g 40%o 10%w 30%m	0.305
124.00	gocm 5%g 25%o 70%m	0.610
62.00	gocm 5%g 45%o 50%m	0.360
129.00	go 5%g 95%o	1.810
0.00	377GIP	0.000

Recovery Table

Total Length: 377.00 ft
 Total Volume: 3.085 bbl
 Num Fluid Samples: 0
 Num Gas Bombs: 0
 Laboratory Name:
 Laboratory Location:
 Recovery Comments: 30@60=30

Serial #: 8373

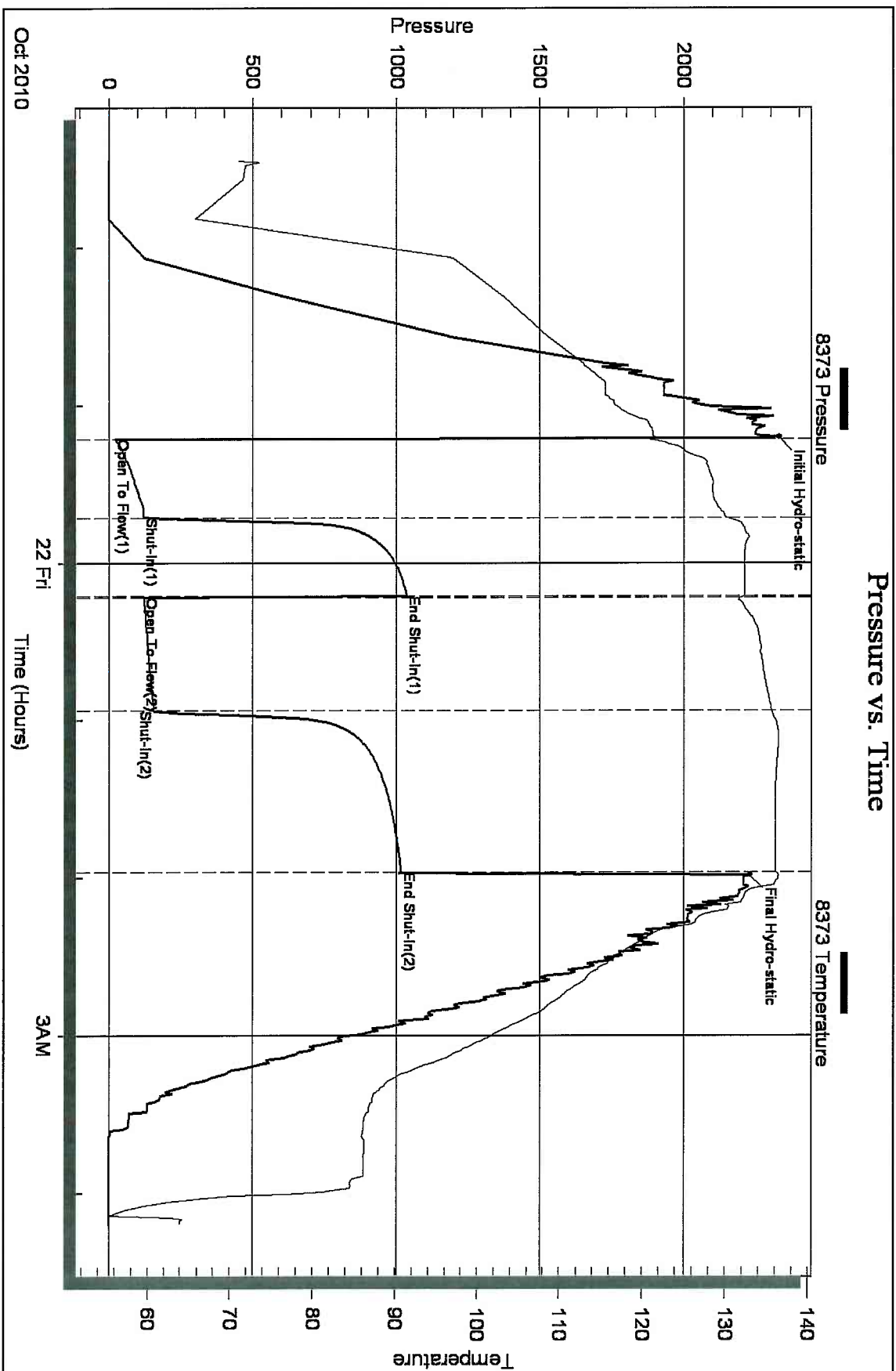
Inside

FML Natural Resources

28-18-31 Scott, KS

DST Test Number: 4

Pressure vs. Time





TRILOBIT
TESTING INC.

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OCT 25 2010

Test Ticket
NO. 040261

Well Name & No.	Long 5A-28-1831
Company	FIML (N94497) Resources
Address	410 17th St 5th 900 Beaver, CO 80202
Co. Rep / Geo.	Gary Doherty / Jim Musgrave
Location: Sec.	28
Twp.	18
Rge.	31
Co.	Scott
State	K5
Test No.	1
Date	10-19-10
KB	2953
GL	
Elevation	2963
Zone Tested	Long 5A-28-1831
Drill Pipe Run	3868
Drill Collars Run	242
Wt. Pipe Run	
Chlorides ppm System	2500
LCM	4
WL	8.0
Vis	59
Mud Wt.	8.9

Interval Tested	4107
Anchor Length	45
Top Packer Depth	4102
Bottom Packer Depth	4107
Total Depth	4152
Blow Description	IF 1/4 blow BOB in 21 min. IS: No return.
Rec	62
Feet of	960
%gas	5
%oil	95
%water	
%mud	
Rec	62
Feet of	960
%gas	10
%oil	10
%water	40
%mud	40
Rec	124
Feet of	960
%gas	10
%oil	60
%water	40
%mud	40
Rec	248
Feet of	960
%gas	10
%oil	90
%water	10
%mud	10
Rec Total	496
BHT	131
Gravity	28
API RW	30
@ 53	
F Chlorides	32,000
ppm	
T-On Location	1:35
T-Started	2:23
T-Open	4:14
T-Pulled	7:14
T-Out	9:50
Comments	
MP/DST Disc't	
Total	1350
Sub Total	1350
Extra Copies	
Ruined Packer	
Ruined Shale Packer	
Jars	
Safety Joint	
Circ Sub	N/C
Hourly Standby	
Mileage	20-25.00
Sampler	
Straddle	
Shale Packer	
Extra Packer	
Extra Recorder	
Day Standby	
Accessibility	
Sub Total	1350

Rec Total	496
BHT	131
Gravity	28
API RW	30
@ 53	
F Chlorides	32,000
ppm	
T-On Location	1:35
T-Started	2:23
T-Open	4:14
T-Pulled	7:14
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Comments	
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Sub Total	1350
Extra Copies	
Ruined Packer	
Ruined Shale Packer	
Jars	
Safety Joint	
Circ Sub	N/C
Hourly Standby	
Mileage	20-25.00
Sampler	
Straddle	
Shale Packer	
Extra Packer	
Extra Recorder	
Day Standby	
Accessibility	
Sub Total	1350

Approved By *[Signature]*

Our Representative *[Signature]*

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TRILOBIT
TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

OCT 25 2010

Test Ticket
NO. 040262

Well Name & No.		Long 5A-28-1831	
Company		FIML Natural Resources	
Address		410 17th St 5+2 900 Beaver Co 80202	
Co. Rep / Geo.		Gary Doke - Jim Musgrave	
Location: Sec.		28	
Twp.		18	
Rge.		31	
Co.		Scott	
State		KS	
Test No.		2	
Date		10-19-10	
Elevation		2963	
KB		2953	
GL			

Interval Tested	4165	4212	Zone Tested	HAI
Anchor Length	47	3930	Drill Pipe Run	9.3
Top Packer Depth	4160	242	Drill Collars Run	68
Bottom Packer Depth	4165		Wt. Pipe Run	16.8
Total Depth	4212	3800	Chlorides ppm System	2
Blow Description	IF 1/4 blow Bob in 21 min.			

FS! No return,
FS! Surface, Blow Bob in 28 min.
FS! No return.

Rec	134	Feet of wcm	%gas	%oil	%water	%mud
Rec	310	Feet of mcm	%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 Total	444	BHT	132	Gravity	—	API RW 127 @ 51
	2067	Test	1225.00			F Chlorides 38.000 ppm

(A) Initial Hydrostatic	21	Jars		T-Started	6:33 P.M.	T-On Location	5:50 P.M.
(B) First Initial Flow	162	Safety Joint		T-Open	8:10 P.M.		
(C) First Final Flow	939	Circ Sub	N/C	T-Pulled	10:25 P.M.		
(D) Initial Shut-In	153	Hourly Standby		T-Out	12:30 AM		
(E) Second Initial Flow	212	Mileage	20-25.00	Comments			
(F) Second Final Flow	940	Sampler					
(G) Final Shut-In	1979	Straddle					
(H) Final Hydrostatic		Shale Packer					

Initial Open	30	Shale Packer		MP/DST Disc't	
Initial Shut-In	30	Extra Packer		Sub Total	0
Final Flow	30	Extra Recorder		Total	1250
Final Shut-In	45	Day Standby			
		Accessibility			
		Sub Total	1250		

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Our Representative *[Signature]*



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OCT 25 2010

NO. 040263

Test Ticket

Well Name & No.	Long SA-28-1831	Test No.	3	Date	10-20-10
Company	FIML Natural Resources	Elevation	2963	KB	2953
Address	410 14th St Ste 900 Denver, CO 80202	Rig	Murfin 21	Co.	Scott
Co. Rep / Geo.	Gary Dake / Jim Musgrave	State	Ks		
Location: Sec.	28	Twp.	18	Rge.	31

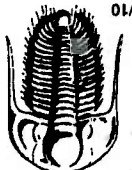
Interval Tested	4222	Zone Tested	J&K	Mud Wt.	9.4
Anchor Length	64	Drill Pipe Run	3992	Vis	68
Top Packer Depth	4217	Drill Collars Run	242	WL	9.6
Bottom Packer Depth	4222	Wt. Pipe Run	4200	LCM	4
Total Depth	4286	Chlorides	4200	ppm System	

Blow Description
IF1 Bob in 5 min.
IS! Surface blow built to 1 in 30 min.
FI! 4 blow Bob in 7 min.
FS! Surface blow built to 2 in 45 min.

Rec	62	Feet of	90	%gas	10	%oil	90	%water		%mud
Rec	155	Feet of	90cmw	%gas	10	%oil	30	%water	40	%mud
Rec	310	Feet of	90cmw	%gas	30	%oil	20	%water	45	%mud
Rec	366	Feet of	new Trace of oil	%gas		%oil	95	%water	5	%mud
Rec	893	Feet of	217 GTP	%gas		%oil		%water		%mud

Rec Total	893	BHT	134	Gravity	27	API RW	.16	@	85	F Chlorides	37,000	ppm
(A) Initial Hydrostatic	2152	Test	1225.00	Jars		Safety Joint	N/C	Hourly Standby	20-25.00	Mileage		
(B) First Initial Flow	40	Circ Sub		Shale Packer		Extra Recorder		Day Standby		Accessibility		
(C) First Final Flow	283	Shale Packer		Extra Packer		Extra Recorder		Sub Total	1250	MP/DST Disc't		
(D) Initial Shut-In	914	Shale Packer		Extra Packer		Extra Recorder		Sub Total	1250	MP/DST Disc't		
(E) Second Initial Flow	290	Shale Packer		Extra Packer		Extra Recorder		Sub Total	1250	MP/DST Disc't		
(F) Second Final Flow	431	Shale Packer		Extra Packer		Extra Recorder		Sub Total	1250	MP/DST Disc't		
(G) Final Shut-In	911	Shale Packer		Extra Packer		Extra Recorder		Sub Total	1250	MP/DST Disc't		
(H) Final Hydrostatic	2144	Shale Packer		Extra Packer		Extra Recorder		Sub Total	1250	MP/DST Disc't		

Initial Open 30
Initial Shut-In 30
Final Flow 30
Final Shut-In 45
Approved By [Signature]
Our Representative [Signature]
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RECEIVED
OCT 25 2010

Test Ticket
NO. 040264

Well Name & No.	Long 5A-28-1831		
Company	FIML (Natura) Resources		
Address	410 17th St 5th Floor Denver, CO 80202		
Co. Rep / Geo.	Gary Dole / Jim Musgrave		
Location: Sec.	Twp.	Rge.	Co.
28	18	31	Scott
Date	Test No.	Elevation	KB
10-21-10	4	2963	2953
GL			

Interval Tested	4574	4604	Zone Tested	M.55	5 spergen
Anchor Length	30	Drill Pipe Run	4338	Mud Wt.	9.4
Top Packer Depth	4569	Drill Collars Run	242	Vis	6.8
Bottom Packer Depth	4574	Wt. Pipe Run	3500	WL	10.8
Total Depth	4604	Chlorides	3500	LCM	4
Blow Description	IF 1/4 blow Bob in 24 min. IS: Leak surface blow died in 15 min. FP: 1/4 blow Bob in 19 min. FS: Surface blow built to 8 in 60 min.				

Rec	Feet of	%gas	%oil	%water	%mud
129	90	5	95		
62	90cm	5	45		50
124	90cm	5	25		70
62	90cm	5	40	10	30
377	61p	20	40		

Rec Total 377 BHT 30 Gravity 1225.00 API RW @ - F Chlorides ppm

(A) Initial Hydrostatic	2325	Test	1225.00	T-On Location	20:50
(B) First Initial Flow	21	Jars		T-Started	21:26
(C) First Final Flow	119	Safety Joint	N/L	T-Open	23:12
(D) Initial Shut-In	1034	Circ Sub	N/L	T-Pulled	1:57
(E) Second Initial Flow	120	Hourly Standby		T-Out	4:25
(F) Second Final Flow	155	Mileage	20-25.00	Comments	
(G) Final Shut-In	1014	Sampler			
(H) Final Hydrostatic	2225	Straddle			
Initial Open	30	Shale Packer			
Initial Shut-In	30	Extra Packer			
Final Flow	45	Extra Recorder			
Final Shut-In	60	Day Standby			
Approved By	Our Representative				

Sub Total 1250 MP/DST Disc't Total 1250

Extra Copies 0 Extra Copies 0 Ruined Packer 0 Ruined Shale Packer 0

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