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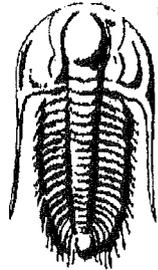
8-1s-35w

IND

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JUN 23 2009

KCC



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

8/1s/35w Rawlins KS

Sutton #2-8

Start Date: 2009.03.08 @ 04:41:00

End Date: 2009.03.08 @ 12:12:30

Job Ticket #: 34485 DST #: 1

Murfin Drilling Co. Inc.

Sutton #2-8

8/1s/35w Rawlins KS

DST # 1

LKC "A"

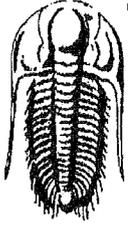
2009.03.08

KANSAS CORPORATION COMMISSION

JUN 23 2009

RECEIVED

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

Sutton #2-8

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

8/1s/35w Rawlins KS

Job Ticket: 34485

DST#: 1

Test Start: 2009.03.08 @ 04:41:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:54:30

Time Test Ended: 12:12:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: 4110.00 ft (KB) To 4205.00 ft (KB) (TVD)

Total Depth: 4205.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3230.00 ft (KB)

3225.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 52.75 psig @ 4111.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2009.03.08

End Date: 2009.03.08

Last Calib.: 2009.03.08

Start Time: 04:41:05

End Time: 12:12:29

Time On Btm: 2009.03.08 @ 06:53:00

Time Off Btm: 2009.03.08 @ 10:25:29

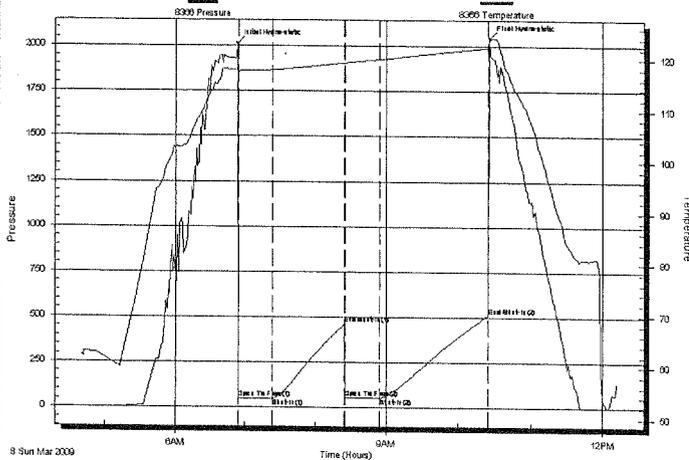
TEST COMMENT: IF: 2 1/4" blow @ open, built to 2 1/2", dying back at 16 min., 2 1/4" blow @ close

ISI: Bled off, No blow back

FF: No blow

FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

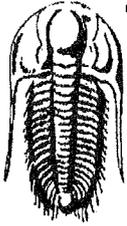
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2013.09	118.16	Initial Hydro-static
2	48.36	117.52	Open To Flow (1)
31	51.17	117.93	Shut-In (1)
92	460.90	119.37	End Shut-In (1)
92	51.41	119.29	Open To Flow (2)
122	52.75	120.03	Shut-In (2)
212	511.20	122.35	End Shut-In (2)
213	2044.09	123.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Mud 100%	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

Sutton #2-8

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

8/1s/35w Rawlins KS

Job Ticket: 34485 **DST#: 1**
Test Start: 2009.03.08 @ 04:41:00

Tool Information

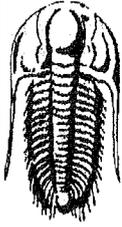
Drill Pipe:	Length: 3561.00 ft	Diameter: 3.80 inches	Volume: 49.95 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 92000.00 lb
			Total Volume: 52.64 bbl	Tool Chased 5.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4110.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Worked through a tight spot on the way to bottom 29 stands in 11' fill on bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4087.00	
HYD S.I. Tool	5.00			4092.00	
Jars	5.00			4097.00	
Safety Joint	3.00			4100.00	
Packer	5.00			4105.00	28.00 Bottom Of Top Packer
Packer	5.00			4110.00	
Stubb	1.00			4111.00	
Recorder	0.00	8366	Inside	4111.00	
Recorder	0.00	8320	Inside	4111.00	
Perforations	17.00			4128.00	
Blank Spacing	64.00			4192.00	
Perforations	10.00			4202.00	
Bullnose	3.00			4205.00	95.00 Bottom Packers & Anchor

Total Tool Length: 123.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Sutton #2-8

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

8/1s/35w Rawlins KS
Job Ticket: 34485 **DST#: 1**
Test Start: 2009.03.08 @ 04:41:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

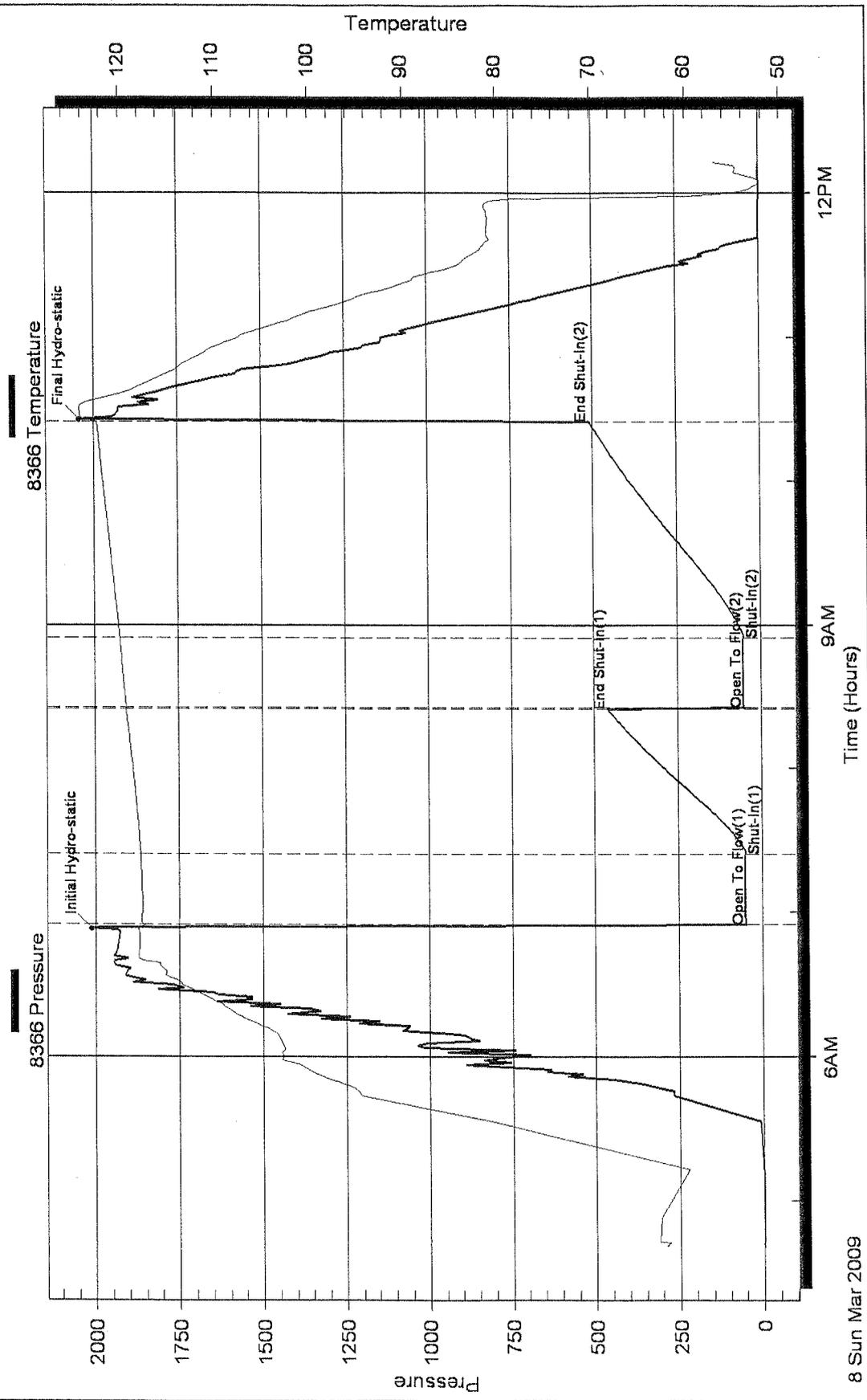
Recovery Information

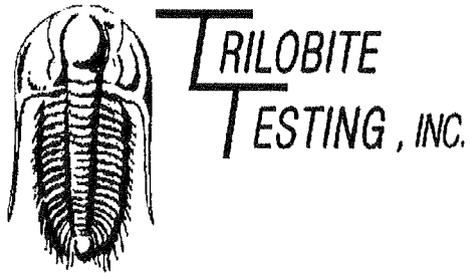
Recovery Table

Length ft	Description	Volume bbl
62.00	Mud 100%	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:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

8/1s/35w Rawlins KS

Sutton #2-8

Start Date: 2009.03.09 @ 00:02:00

End Date: 2009.03.09 @ 08:07:00

Job Ticket #: 34486 DST #: 2

KANSAS CORPORATION COMMISSION

JUN 23 2009

RECEIVED

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

Sutton #2-8

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

8/1s/35w Rawlins KS

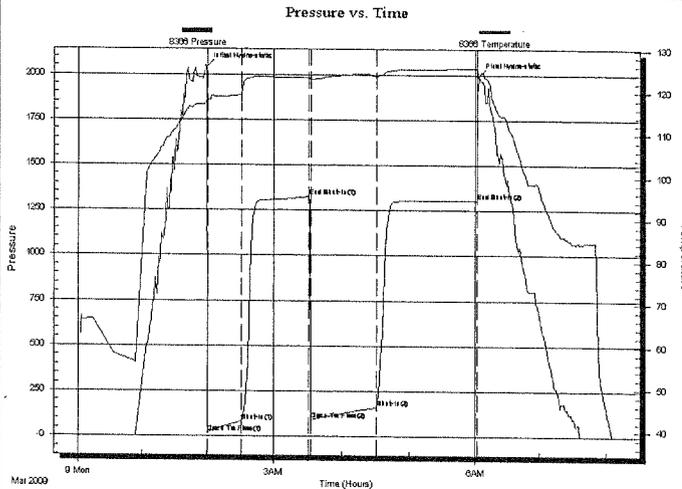
Job Ticket: 34486 DST#: 2
Test Start: 2009.03.09 @ 00:02:00

GENERAL INFORMATION:

Formation: **LKC "D - G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:00:30
 Time Test Ended: 08:07:00
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 36
 Interval: **4185.00 ft (KB) To 4300.00 ft (KB) (TVD)**
 Total Depth: 4300.00 ft (KB) (TVD)
 Reference Elevations: 3230.00 ft (KB)
 3225.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8366 Inside
 Press@RunDepth: 161.72 psig @ 4186.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2009.03.09 End Date: 2009.03.09 Last Calib.: 2009.03.09
 Start Time: 00:02:05 End Time: 08:06:59 Time On Btm: 2009.03.09 @ 02:00:00
 Time Off Btm: 2009.03.09 @ 06:02:59

TEST COMMENT: IF: Blow built to 8 1/4"
 IS: Bled off, Blow back built to 1/2" then died
 FF: Blow built to BOB in 37 min.
 FSI: Bled off, Blow back built to 4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2041.33	117.84	Initial Hydro-static
1	18.89	117.82	Open To Flow (1)
31	80.68	119.32	Shut-In(1)
91	1325.10	123.37	End Shut-In(1)
93	91.55	122.85	Open To Flow (2)
151	161.72	123.79	Shut-In(2)
241	1306.24	125.58	End Shut-In(2)
243	1990.48	124.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOM 48% _m , 28% _g , 24% _o	0.89
181.00	SGCO 92% _o , 8% _g	0.89
0.00	245 GIP (weak odor)	0.00
0.00	Gravity = 31.6 api @ 56 deg F	0.00
0.00	Corrected Gravity = 32 api	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.
250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

Sutton #2-8
8/1s/35w Rawlins KS
Job Ticket: 34486 **DST#: 2**
Test Start: 2009.03.09 @ 00:02:00

Tool Information

Drill Pipe:	Length: 3651.00 ft	Diameter: 3.80 inches	Volume: 51.21 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: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 53.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4185.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	115.00 ft			
Tool Length:	135.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4170.00	
HYD S.I. Tool	5.00			4175.00	
Packer	5.00			4180.00	20.00 Bottom Of Top Packer
Packer	5.00			4185.00	
Stubb	1.00			4186.00	
Recorder	0.00	8366	Inside	4186.00	
Recorder	0.00	8320	Inside	4186.00	
Perforations	10.00			4196.00	
Blank Spacing	96.00			4292.00	
Perforations	5.00			4297.00	
Bullnose	3.00			4300.00	115.00 Bottom Packers & Anchor

Total Tool Length: 135.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Sutton #2-8

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

8/1s/35w Rawlins KS

Job Ticket: 34486 **DST#: 2**

Test Start: 2009.03.09 @ 00:02:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 5.98 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 32 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	GOM 48% _m , 28% _g , 24% _o	0.885
181.00	SGCO 92% _o , 8% _g	0.890
0.00	245 GIP (weak odor)	0.000
0.00	Gravity = 31.6 api @ 56 deg F	0.000
0.00	Corrected Gravity = 32 api	0.000

Total Length: 361.00 ft Total Volume: 1.775 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

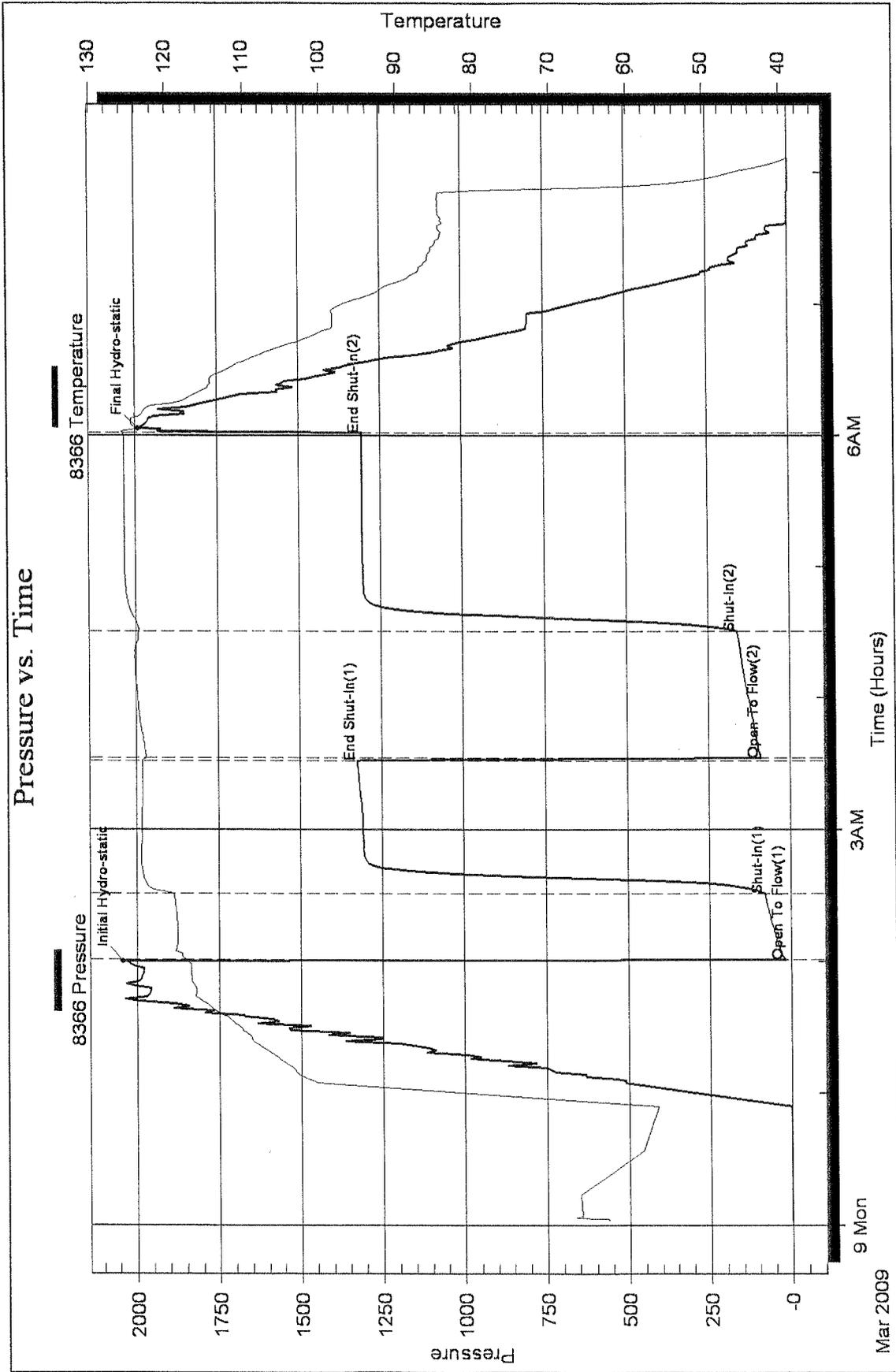
Serial #:

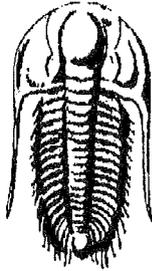
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

8/1s/35w Rawlins KS

Sutton #2-8

Start Date: 2009.03.09 @ 17:39:00

End Date: 2009.03.10 @ 03:48:00

Job Ticket #: 34487 DST #: 3

KANSAS CORPORATION COMMISSION

JUN 23 2009

RECEIVED

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

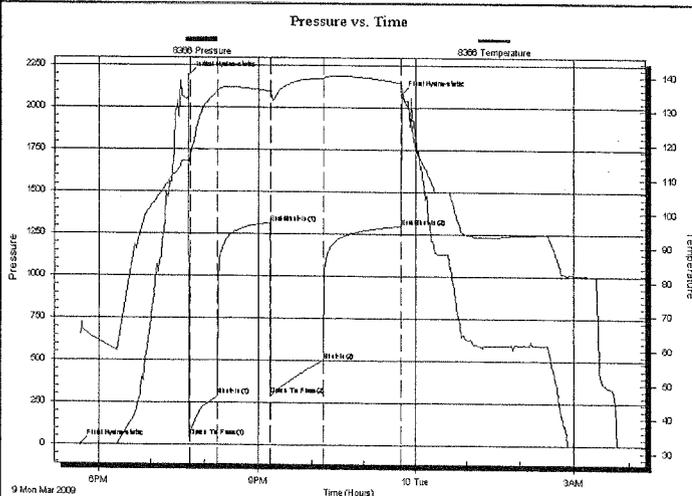
Sutton #2-8
8/1s/35w Rawlins KS
Job Ticket: 34487 DST#: 3
Test Start: 2009.03.09 @ 17:39:00

GENERAL INFORMATION:

Formation: **LKC "H - I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:43:00
Time Test Ended: 03:48:00
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 36
Interval: **4293.00 ft (KB) To 4352.00 ft (KB) (TVD)**
Total Depth: 4352.00 ft (KB) (TVD)
Reference Elevations: 3230.00 ft (KB)
3225.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 5.00 ft

Serial #: 8366 Inside
Press@RunDepth: 503.47 psig @ 4294.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2009.03.09 End Date: 2009.03.10 Last Calib.: 2009.03.10
Start Time: 17:39:05 End Time: 03:48:00 Time On Btm: 2009.03.09 @ 19:42:00
Time Off Btm: 2009.03.09 @ 17:39:05

TEST COMMENT: IF: Blow built to BOB in 4 1/2 min. (diesel in bucket)
IS: Bled off, Blow back built to BOB in 38 min.
FF: Blow built to BOB in 5 min.
FSI: Bled off, Blow back built to BOB in 26 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	0.04	64.38	Final Hydro-static
123	2191.27	115.88	Initial Hydro-static
124	45.85	115.12	Open To Flow (1)
155	288.80	135.57	Shut-In(1)
214	1317.39	135.69	End Shut-In(1)
215	295.37	135.27	Open To Flow(2)
274	503.47	139.35	Shut-In(2)
365	1298.38	138.16	End Shut-In(2)
366	2080.72	137.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOM 47%o, 43%m, 10%g	0.59
1202.00	CGO 88%o, 12%g	12.97
0.00	GIP = 1085	0.00
0.00	Gravity = 20.8 api @ 42 deg F	0.00
0.00	Corrected Gravity = 22.6 api	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

Sutton #2-8

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

8/1s/35w Rawlins KS

Job Ticket: 34487

DST#: 3

Test Start: 2009.03.09 @ 17:39:00

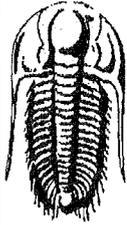
Tool Information

Drill Pipe:	Length: 3743.00 ft	Diameter: 3.80 inches	Volume: 52.50 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: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 94000.00 lb
			<u>Total Volume: 55.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4293.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4278.00	
HYD S.I. Tool	5.00			4283.00	
Packer	5.00			4288.00	20.00 Bottom Of Top Packer
Packer	5.00			4293.00	
Stubb	1.00			4294.00	
Recorder	0.00	8366	Inside	4294.00	
Recorder	0.00	8320	Inside	4294.00	
Perforations	18.00			4312.00	
Blank Spacing	32.00			4344.00	
Perforations	5.00			4349.00	
Bullnose	3.00			4352.00	59.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Sutton #2-8

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

8/1s/35w Rawlins KS

Job Ticket: 34487

DST#: 3

Test Start: 2009.03.09 @ 17:39:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 22.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.59 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1000.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GOM 47%o, 43%m, 10%g	0.590
1202.00	CGO 88%o, 12%g	12.971
0.00	GIP = 1085	0.000
0.00	Gravity = 20.8 api @ 42 deg F	0.000
0.00	Corrected Gravity = 22.6 api	0.000

Total Length: 1322.00 ft Total Volume: 13.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

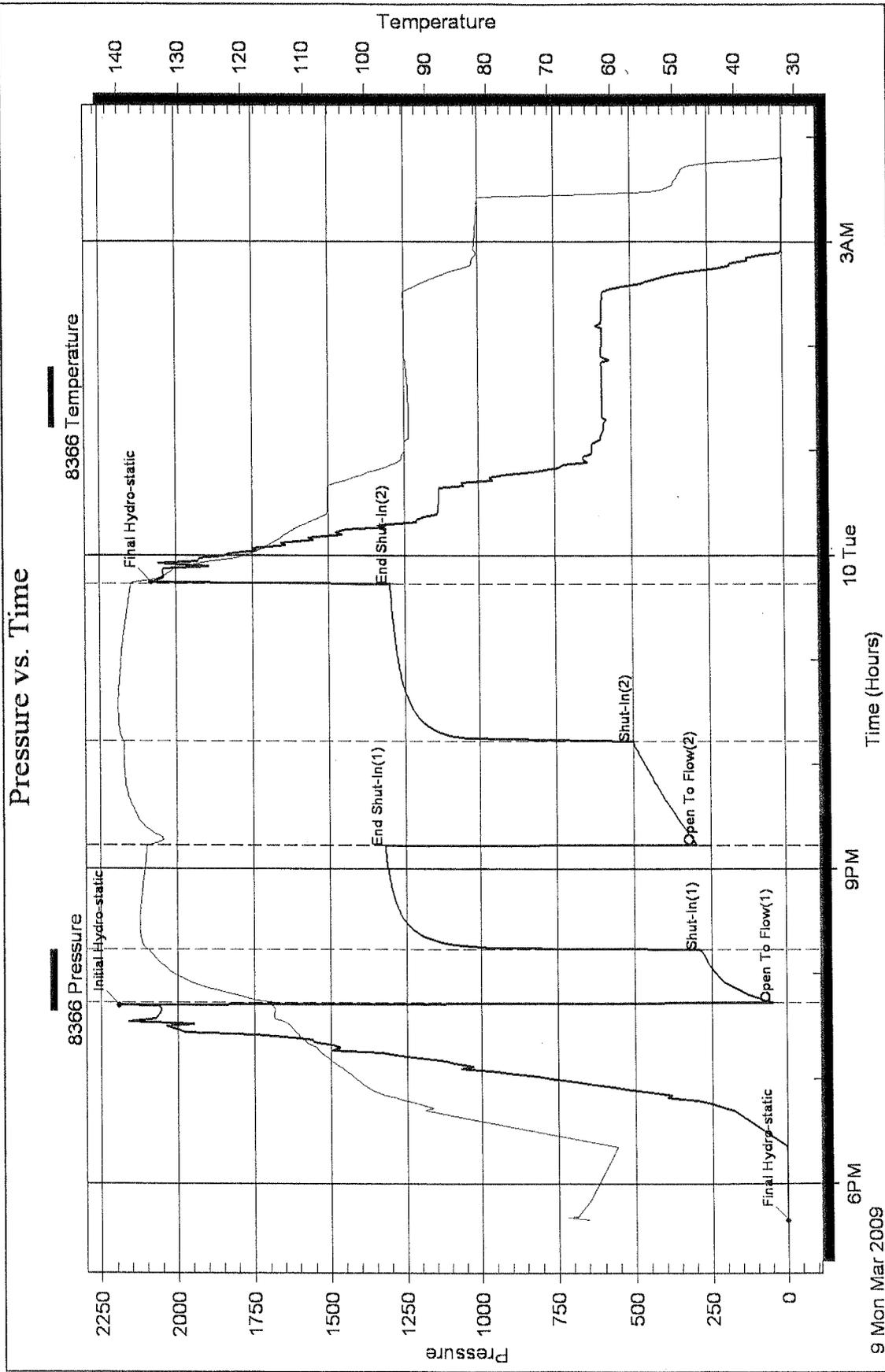
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

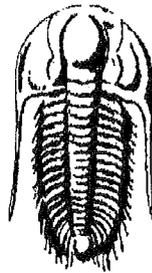
Pressure vs. Time



CONFIDENTIAL

JUN 23 2009

KCO



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

8/1s/35w Rawlins KS

Sutton #2-8

Start Date: 2009.03.10 @ 11:50:00

End Date: 2009.03.10 @ 16:06:00

Job Ticket #: 34488 DST #: 4

KANSAS CORPORATION COMMISSION

JUN 23 2009

RECEIVED

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co. Inc.

Sutton #2-8

8/1s/35w Rawlins KS

DST # 4

LKC "J"

2009.03.10



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

Sutton #2-8

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

8/1s/35w Rawlins KS
Job Ticket: 34488 **DST#: 4**
Test Start: 2009.03.10 @ 11:50:00

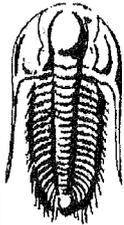
Tool Information

Drill Pipe:	Length: 3838.00 ft	Diameter: 3.80 inches	Volume: 53.84 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: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 56.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4372.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

S.I. Tool	5.00			4357.00	
HYD S.I. Tool	5.00			4362.00	
Packer	5.00			4367.00	20.00 Bottom Of Top Packer
Packer	5.00			4372.00	
Stubb	1.00			4373.00	
Recorder	0.00	8366	Inside	4373.00	
Recorder	0.00	8320	Inside	4373.00	
Perforations	14.00			4387.00	
Bullnose	3.00			4390.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Sutton #2-8

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

8/1s/35w Rawlins KS
Job Ticket: 34488 DST#: 4
Test Start: 2009.03.10 @ 11:50:00

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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
345.00	Mud w/oil spots 100%rn	1.697

Total Length: 345.00 ft Total Volume: 1.697 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Oil spots possibly from oil in mud and or dump sack

Pressure vs. Time

