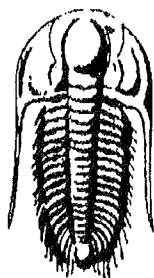


15-065-23532

15-8s-21w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

15 8s 21w Graham KS

Swayne #1

Start Date: 2009.02.14 @ 15:14:23

End Date: 2009.02.14 @ 18:58:53

Job Ticket #: 36091 DST #: 1

15-065-23532-0000

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Blake Exploration

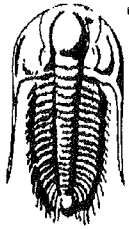
Swayne #1

15 8s 21w Graham KS

DST # 1

LKC-"C"

2009.02.14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blake Exploration

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

Swayne #1

15 8s 21w Graham KS

Job Ticket: 36091

DST#: 1

Test Start: 2009.02.14 @ 15:14:23

GENERAL INFORMATION:

Formation: **LKC-"C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:40:23

Time Test Ended: 18:58:53

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3285.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Total Depth: 3310.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2058.00 ft (KB)

2050.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6755

Inside

Press@RunDepth: 11.89 psig @ 3287.00 ft (KB)

Start Date: 2009.02.14

End Date:

2009.02.14

Start Time: 15:14:25

End Time:

18:58:53

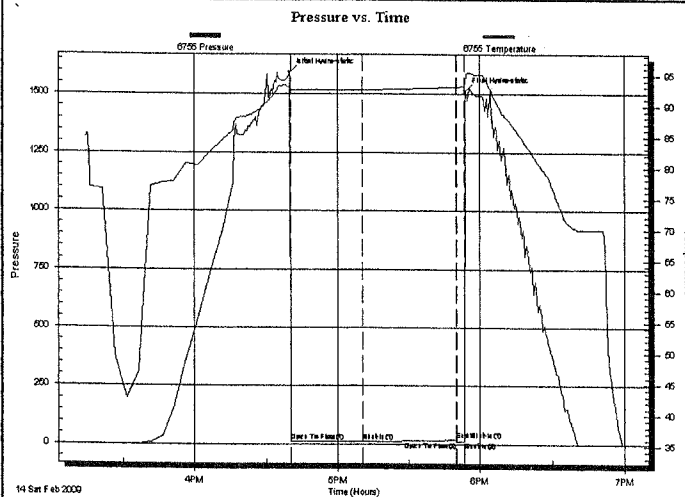
Capacity: 7000.00 psig

Last Calib.: 2009.02.14

Time On Btm: 2009.02.14 @ 16:39:53

Time Off Btm: 2009.02.14 @ 17:53:53

TEST COMMENT: IFP-Weak Surface Blow, Dead in 2 Min.
ISI-Dead



PRESSURE SUMMARY

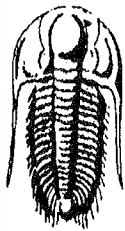
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.13	93.12	Initial Hydro-static
1	11.07	92.63	Open To Flow (1)
31	11.89	92.59	Shut-In(1)
70	18.97	93.09	End Shut-In(1)
71	11.14	93.10	Open To Flow (2)
74	11.55	93.15	Shut-In(2)
74	1514.87	93.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Drilling Mud	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blake Exploration

Swayne #1

PO Box 150
Bogue, KS 67625

15 8s 21w Graham KS

Job Ticket: 36091

DST#: 1

ATTN: Mke Davignon

Test Start: 2009.02.14 @ 15:14:23

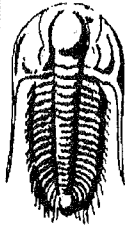
Tool Information

Drill Pipe:	Length: 3266.00 ft	Diameter: 3.80 inches	Volume: 45.81 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 45.96 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3285.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 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			3265.00	
Shut In Tool	5.00			3270.00	
Hydraulic tool	5.00			3275.00	
Packer	5.00			3280.00	21.00 Bottom Of Top Packer
Packer	5.00			3285.00	
Stubb	1.00			3286.00	
Perforations	1.00			3287.00	
Recorder	0.00	8360	Inside	3287.00	
Recorder	0.00	6755	Inside	3287.00	
Perforations	20.00			3307.00	
Bullnose	3.00			3310.00	25.00 Bottom Packers & Anchor

Total Tool Length: 46.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration

Swayne #1

PO Box 150
Bogue, KS 67625

15 8s 21w Graham KS

Job Ticket: 36091

DST#: 1

ATTN: Mike Davignon

Test Start: 2009.02.14 @ 15:14:23

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 1700.00 ppm

Filter Cake: 0.06 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Drilling Mud	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

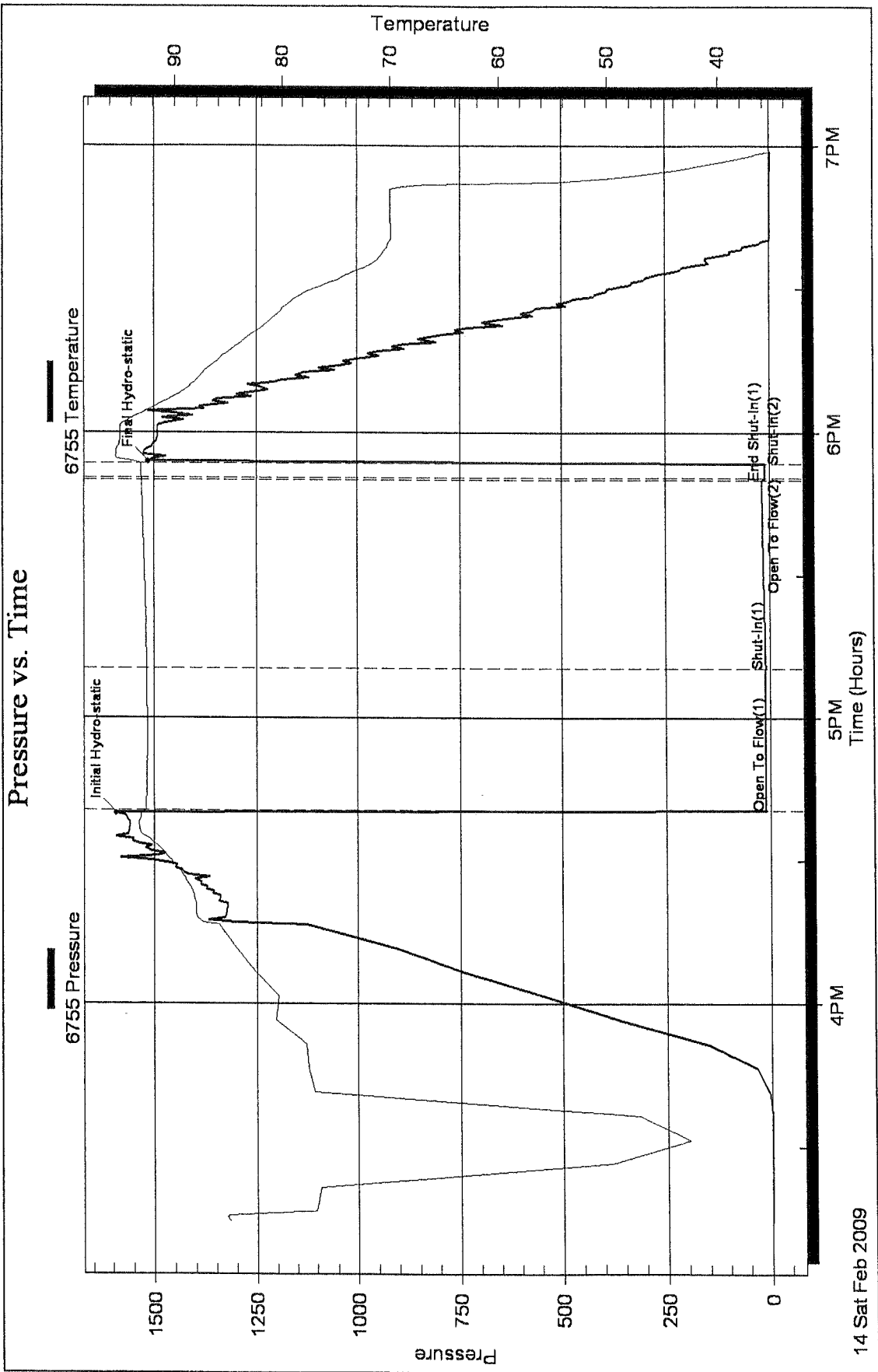
Serial #:

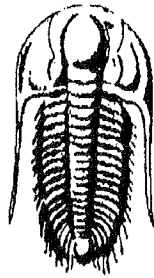
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

15 8s 21w Graham KS

Swayne #1

Start Date: 2009.02.15 @ 01:27:40

End Date: 2009.02.15 @ 08:22:40

Job Ticket #: 36092 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Blake Exploration

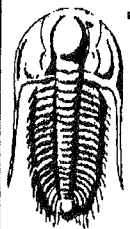
Swayne #1

15 8s 21w Graham KS

DST # 2

"F"

2009.02.15



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Blake Exploration

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

Swayne #1

15 8s 21w Graham KS

Job Ticket: 36092

DST#: 2

Test Start: 2009.02.15 @ 01:27:40

GENERAL INFORMATION:

Formation: "F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:08:10

Time Test Ended: 08:22:40

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3325.00 ft (KB) To 3350.00 ft (KB) (TVD)

Total Depth: 3350.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2058.00 ft (KB)

2050.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6755

Inside

Press@RunDepth: 207.70 psig @ 3327.00 ft (KB)

Start Date: 2009.02.15

End Date:

2009.02.15

Capacity: 7000.00 psig

Last Calib.: 2009.02.15

Start Time: 01:27:42

End Time:

08:22:40

Time On Btm: 2009.02.15 @ 03:06:40

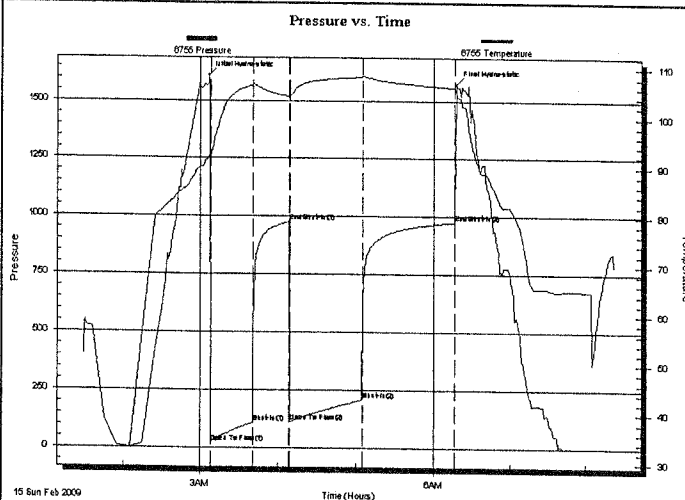
Time Off Btm: 2009.02.15 @ 06:17:10

TEST COMMENT: IFP-Good Blow ,BOB in 8 Min.

ISI-Blowback Built to 3/4"

FFP-Good Blow ,BOB in 12 Mn.

FSI-Blowback Built to 1"



PRESSURE SUMMARY

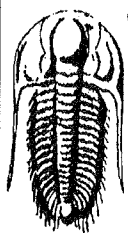
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1607.67	92.12	Initial Hydro-static
2	21.18	92.34	Open To Flow (1)
34	109.01	106.62	Shut-In (1)
62	975.31	104.33	End Shut-In (1)
63	112.60	104.27	Open To Flow (2)
118	207.70	108.30	Shut-In (2)
190	974.75	106.18	End Shut-In (2)
191	1572.50	105.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Muddy Water-95%W-5%M	2.24
185.00	VSOCMW-1%O-95%W-4%M	2.60
40.00	Clean Oil	0.56
0.00	135' Gas In Pipe	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blake Exploration

Swayne #1

PO Box 150
Bogue, KS 67625

15 8s 21w Graham KS

Job Ticket: 36092

DST#: 2

ATTN: Mike Davignon

Test Start: 2009.02.15 @ 01:27:40

Tool Information

Drill Pipe:	Length: 3297.00 ft	Diameter: 3.80 inches	Volume: 46.25 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 46.40 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3325.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	46.00 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			3305.00	
Shut In Tool	5.00			3310.00	
Hydraulic tool	5.00			3315.00	
Packer	5.00			3320.00	21.00 Bottom Of Top Packer
Packer	5.00			3325.00	
Stubb	1.00			3326.00	
Perforations	1.00			3327.00	
Recorder	0.00	8360	Inside	3327.00	
Recorder	0.00	6755	Inside	3327.00	
Perforations	20.00			3347.00	
Bullnose	3.00			3350.00	25.00 Bottom Packers & Anchor

Total Tool Length: 46.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration

Swayne #1

PO Box 150
Bogue, KS 67625

15 8s 21w Graham KS

Job Ticket: 36092

DST#: 2

ATTN: Mike Davignon

Test Start: 2009.02.15 @ 01:27:40

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 1700.00 ppm

Filter Cake: 0.06 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

23 deg API

Water Salinity:

125000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Muddy Water-95%W-5%M	2.243
185.00	VSOCMW-1%O-95%W-4%M	2.595
40.00	Clean Oil	0.561
0.00	135' Gas In Pipe	0.000

Total Length: 405.00 ft

Total Volume: 5.399 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

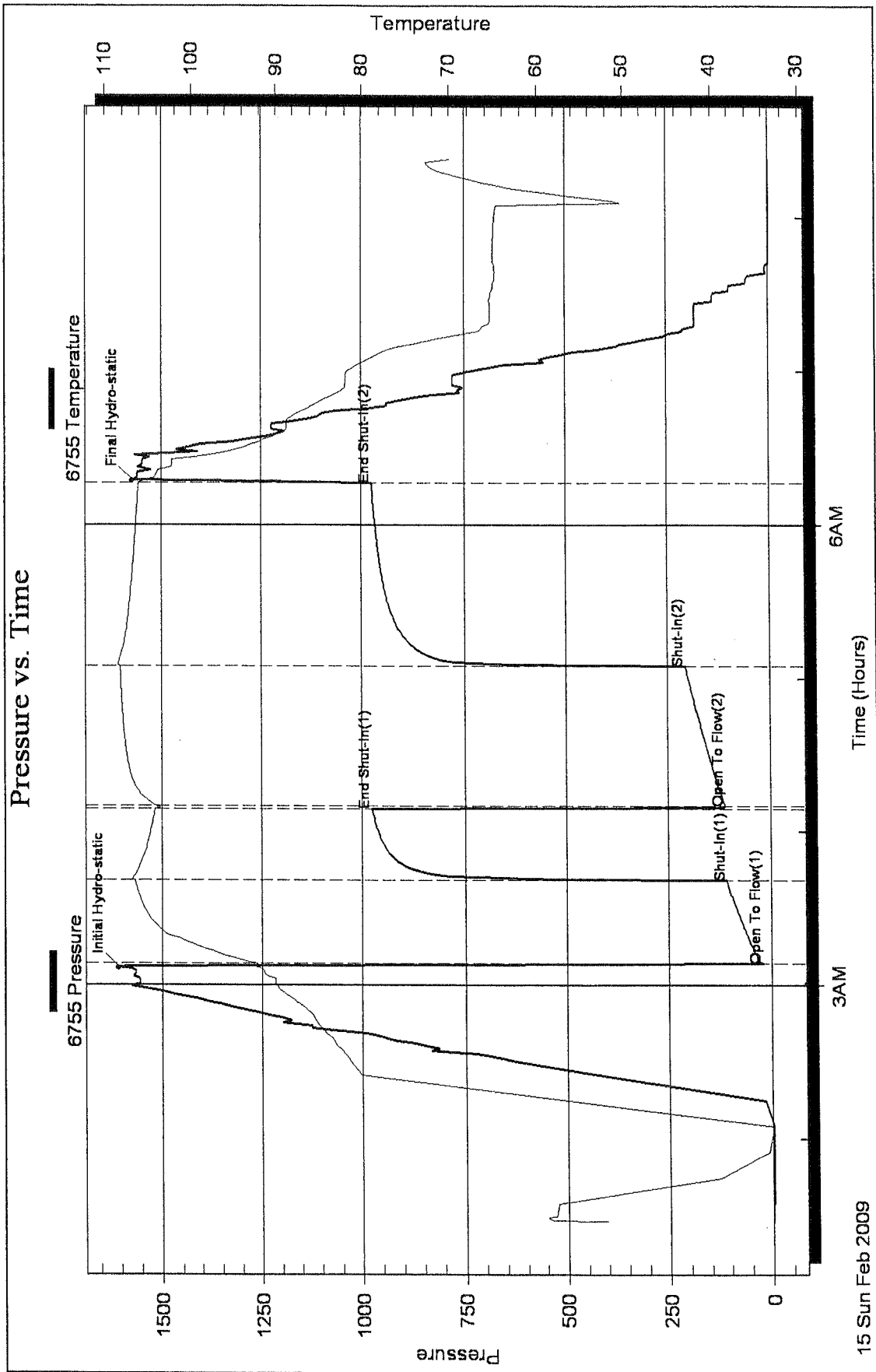
Serial #:

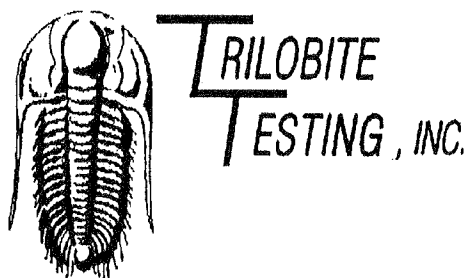
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .219 @ 20F

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

15 8s 21w Graham KS

Swayne #1

Start Date: 2009.02.15 @ 20:18:17

End Date: 2009.02.16 @ 02:09:17

Job Ticket #: 36093 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Blake Exploration

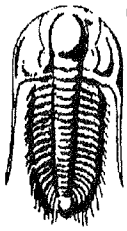
Swayne #1

15 8s 21w Graham KS

DST # 3

"I-J-K"

2009.02.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blake Exploration

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

Swayne #1

15 8s 21w Graham KS

Job Ticket: 36093

DST#: 3

Test Start: 2009.02.15 @ 20:18:17

GENERAL INFORMATION:

Formation: "I-J-K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:34:47

Time Test Ended: 02:09:17

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3405.00 ft (KB) To 3475.00 ft (KB) (TVD)

Total Depth: 3475.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2058.00 ft (KB)

2050.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6755 Inside

Press@RunDepth: 46.72 psig @ 3410.00 ft (KB)

Start Date: 2009.02.15

End Date: 2009.02.16

Start Time: 20:18:19

End Time: 02:09:17

Capacity: 7000.00 psig

Last Calib.: 2009.02.16

Time On Btm: 2009.02.15 @ 21:34:17

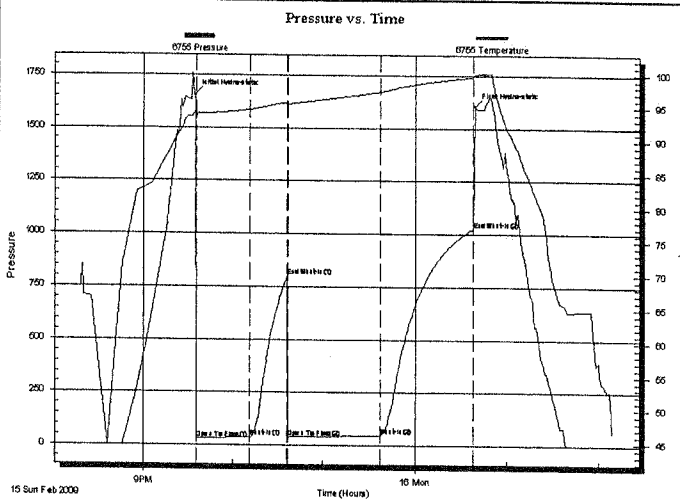
Time Off Btm: 2009.02.16 @ 00:38:47

TEST COMMENT: IFP-Weak Blow ,Built to 2"

ISI-Dead

FFP-Weak Surface Blow ,Built to 1/4"

FSI-Dead



PRESSURE SUMMARY

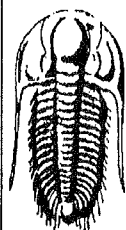
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.92	94.28	Initial Hydro-static
1	30.62	93.28	Open To Flow (1)
37	37.02	94.61	Shut-In(1)
62	799.91	95.72	End Shut-In(1)
62	39.15	95.41	Open To Flow (2)
123	46.72	97.31	Shut-In(2)
183	1023.09	99.57	End Shut-In(2)
185	1603.67	99.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud With Oil Scum	0.10

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blake Exploration

Swayne #1

PO Box 150
Bogue, KS 67625

15 8s 21w Graham KS

Job Ticket: 36093

DST#: 3

ATTN: Mike Davignon

Test Start: 2009.02.15 @ 20:18:17

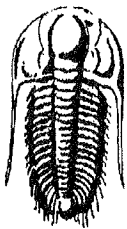
Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.80 inches	Volume: 47.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 64000.00 lb
			Total Volume: 47.28 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3405.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	91.00 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			3385.00	
Shut In Tool	5.00			3390.00	
Hydraulic tool	5.00			3395.00	
Packer	5.00			3400.00	21.00 Bottom Of Top Packer
Packer	5.00			3405.00	
Stubb	1.00			3406.00	
Perforations	3.00			3409.00	
Recorder	0.00	8360	Inside	3409.00	
Change Over Sub	1.00			3410.00	
Recorder	0.00	6755	Inside	3410.00	
Blank Spacing	31.00			3441.00	
Change Over Sub	1.00			3442.00	
Perforations	30.00			3472.00	
Bullnose	3.00			3475.00	70.00 Bottom Packers & Anchor

Total Tool Length: 91.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration

Swayne #1

PO Box 150
Bogue, KS 67625

15 8s 21w Graham KS

Job Ticket: 36093

DST#: 3

ATTN: Mike Davignon

Test Start: 2009.02.15 @ 20:18:17

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 1800.00 ppm

Filter Cake: 0.06 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft
bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud With Oil Scum	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

