

6-141-20375

Tengasco Inc

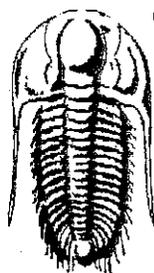
Hobrock#5

3-10s-15w Osborne

DST # 1

Tor-LKC A&B

2007.07.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458
Hays KS 67601

ATTN: Rod Trembly

3-10s-15w Osborne

Hobrock#5

Start Date: 2007.07.10 @ 16:33:48

End Date: 2007.07.10 @ 23:00:42

Job Ticket #: 28866 DST #: 1

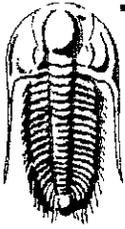
15-141-20375
NW NE SE NW
1490 FNL 2240 FWL

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JAN 09 2008

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

Hobrock#5

PO Box 458
Hays KS 67601

3-10s-15w Osborne

Job Ticket: 28866

DST#: 1

ATTN: Rod Trembly

Test Start: 2007.07.10 @ 16:33:48

Tool Information

Drill Pipe:	Length: 3110.00 ft	Diameter: 3.80 inches	Volume: 43.63 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3107.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.02 ft			
Tool Length:	92.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3087.00	
Shut In Tool	5.00			3092.00	
Hydraulic tool	5.00			3097.00	
Packer	5.00			3102.00	21.00 Bottom Of Top Packer
Packer	5.00			3107.00	
Stubb	1.00			3108.00	
Recorder	0.01	6753	Inside	3108.01	
Perforations	5.00			3113.01	
Recorder	0.01	13534	Outside	3113.02	
Blank Spacing	62.00			3175.02	
Bullnose	3.00			3178.02	71.02 Bottom Packers & Anchor

Total Tool Length: 92.02

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WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

Hobrock#5

PO Box 458
Hays KS 67601

3-10s-15w Osborne

Job Ticket: 28866

DST#: 1

ATTN: Rod Trembly

Test Start: 2007.07.10 @ 16:33:48

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: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
35.00	SO&GCM 5%G5%O 90%M	0.491
0.00	60'GIP	0.000

Total Length: 35.00 ft Total Volume: 0.491 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

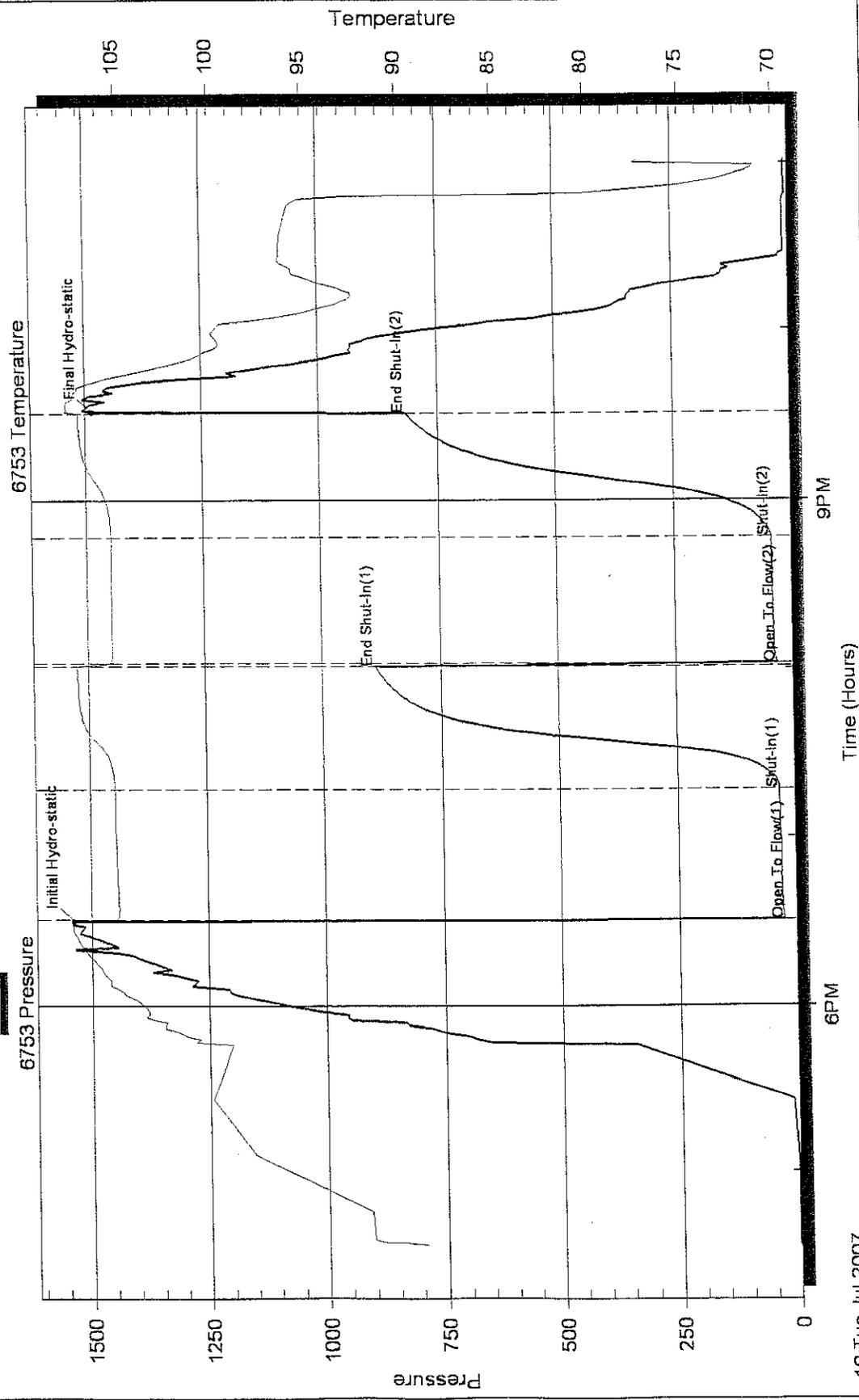
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



10 Tue Jul 2007

6PM

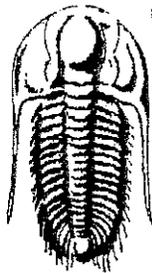
9PM

Time (Hours)

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Ref. No: 28866



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458
Hays KS 67601

ATTN: Rod Trembly

3-10s-15w Osborne

Hobrock#5

Start Date: 2007.07.11 @ 09:02:27

End Date: 2007.07.11 @ 15:06:21

Job Ticket #: 28867 DST #: 2

Tengasco Inc

Hobrock#5

3-10s-15w Osborne

DST # 2

LKC C-F

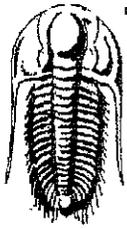
2007.07.11

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WICHITA, KS

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tengasco Inc

Hobrock#5

PO Box 458
Hays KS 67601

3-10s-15w Osborne

Job Ticket: 28867

DST#: 2

ATTN: Rod Trembly

Test Start: 2007.07.11 @ 09:02:27

GENERAL INFORMATION:

Formation: **LKC C-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:32:22

Time Test Ended: 15:06:21

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3176.00 ft (KB) To 3247.00 ft (KB) (TVD)**

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3247.00 ft (KB) (TVD)

1890.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6753**

Inside

Press@RunDepth: 45.32 psig @ 3177.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.07.11

End Date:

2007.07.11

Last Calib.: 2007.07.11

Start Time: 09:02:27

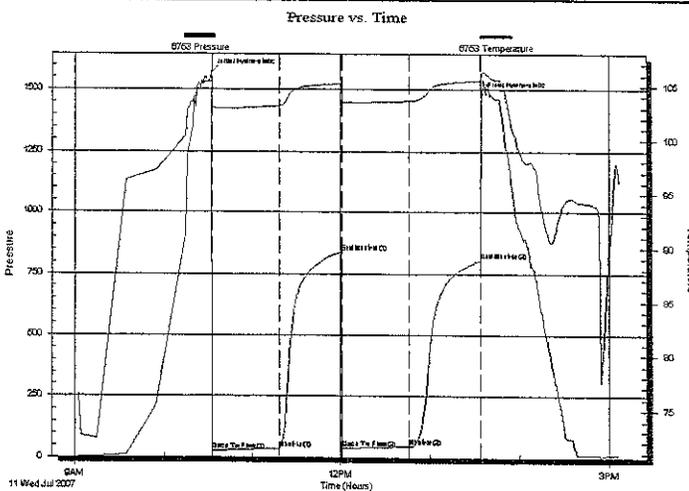
End Time:

15:06:21

Time On Btm: 2007.07.11 @ 10:31:52

Time Off Btm: 2007.07.11 @ 13:34:21

TEST COMMENT: IFF-weak blow thru-out 1/4" to 1/2" blow
FFP-surface blow thru-out
Times 45-45-45-45



PRESSURE SUMMARY

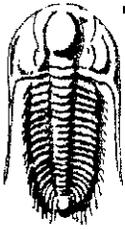
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.45	105.45	Initial Hydro-static
1	25.01	102.95	Open To Flow (1)
47	34.55	103.17	Shut-In(1)
89	839.19	105.25	End Shut-In(1)
89	37.00	103.52	Open To Flow (2)
135	45.32	103.64	Shut-In(2)
182	805.19	105.54	End Shut-In(2)
183	1477.17	106.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	SOCM 3%O 97%M	0.56

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

Hobrock#5

PO Box 458
Hays KS 67601

3-10s-15w Osborne

Job Ticket: 28867

DST#: 2

ATTN: Rod Trembly

Test Start: 2007.07.11 @ 09:02:27

Tool Information

Drill Pipe:	Length: 3175.00 ft	Diameter: 3.80 inches	Volume: 44.54 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 44.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3176.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.02 ft			
Tool Length:	92.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

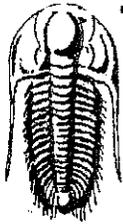
Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3156.00	
Shut In Tool	5.00			3161.00	
Hydraulic tool	5.00			3166.00	
Packer	5.00			3171.00	21.00 Bottom Of Top Packer
Packer	5.00			3176.00	
Stubb	1.00			3177.00	
Recorder	0.01	6753	Inside	3177.01	
Perforations	5.00			3182.01	
Recorder	0.01	13534	Outside	3182.02	
Blank Spacing	62.00			3244.02	
Bullnose	3.00			3247.02	71.02 Bottom Packers & Anchor
Total Tool Length:	92.02				

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WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

Hobrock#5

PO Box 458
Hays KS 67601

3-10s-15w Osborne

Job Ticket: 28867

DST#: 2

ATTN: Rod Trembly

Test Start: 2007.07.11 @ 09:02:27

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: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
40.00	SOCM 3%O 97%M	0.561

Total Length: 40.00 ft

Total Volume: 0.561 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

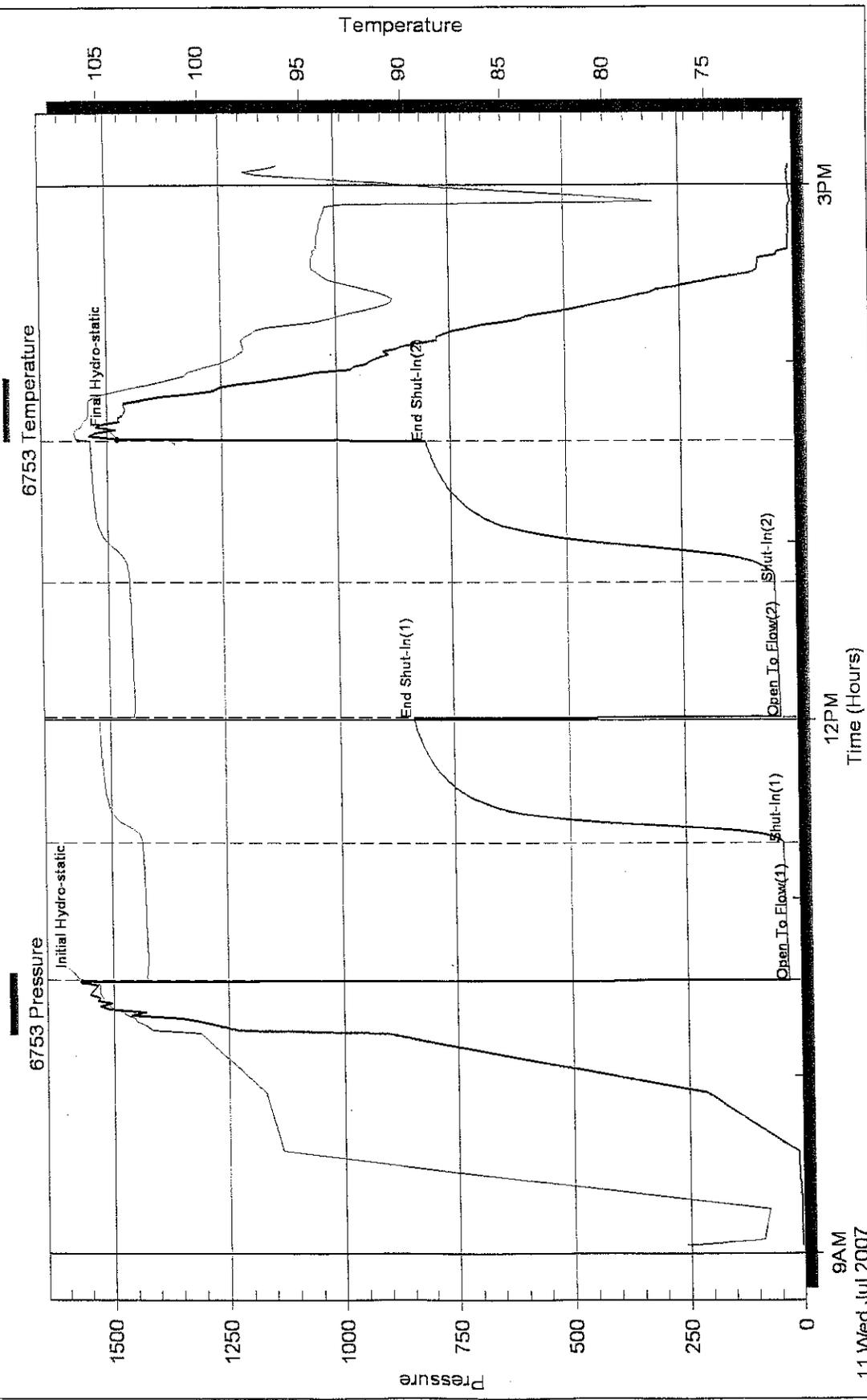
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

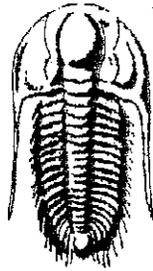
Pressure vs. Time



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WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458
Hays KS 67601

ATTN: Rod Trembly

3-10s-15w Osborne

Hobrock#5

Start Date: 2007.07.12 @ 00:56:10

End Date: 2007.07.12 @ 08:03:04

Job Ticket #: 28868 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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WICHITA, KS

Tengasco Inc

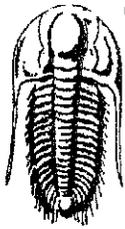
Hobrock#5

3-10s-15w Osborne

DST # 3

LKC H-J

2007.07.12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tengasco Inc
 PO Box 458
 Hays KS 67601
 ATTN: Rod Trembly

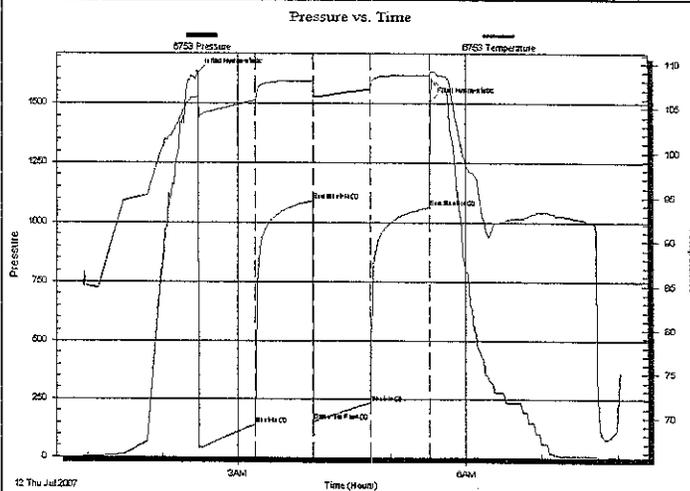
Hobrock#5
3-10s-15w Osborne
 Job Ticket: 28868 **DST#: 3**
 Test Start: 2007.07.12 @ 00:56:10

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 02:29:05
 Time Test Ended: 08:03:04
 Test Type: **Conventional Bottom Hole**
 Tester: **Ray Schwager**
 Unit No: **42**
 Interval: **3285.00 ft (KB) To 3340.00 ft (KB) (TVD)**
 Reference Elevations: **1895.00 ft (KB)**
 Total Depth: **3340.00 ft (KB) (TVD)**
 Reference Elevations: **1890.00 ft (CF)**
 Hole Diameter: **7.85 inches** Hole Condition: **Fair**
 KB to GR/CF: **5.00 ft**

Serial #: 6753 Inside
 Press@RunDepth: **233.17 psig @ 3289.01 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2007.07.12** End Date: **2007.07.12** Last Calib.: **2007.07.12**
 Start Time: **00:56:10** End Time: **08:03:04** Time On Btm: **2007.07.12 @ 02:28:35**
 Time Off Btm: **2007.07.12 @ 05:31:34**

TEST COMMENT: IFF-strong blow in 4 min; FFP-strong blow in 5 min
 ISIP-5" blow back; FSIP-1" blow back
 Times 45-45-45-45



PRESSURE SUMMARY

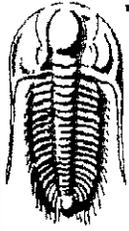
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.92	106.29	Initial Hydro-static
45	140.22	105.88	Shut-In(1)
91	1091.42	108.09	End Shut-In(1)
91	156.07	106.20	Open To Flow(1)
136	233.17	107.10	Shut-In(2)
183	1065.39	108.65	End Shut-In(2)
183	1510.62	109.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
465.00	CO	6.52
120.00	MGO 30%G 58%O 12%M	1.68
0.00	1095'GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

Hobrock#5

PO Box 458
Hays KS 67601

3-10s-15w Osborne

Job Ticket: 28868

DST#: 3

ATTN: Rod Trembly

Test Start: 2007.07.12 @ 00:56:10

Tool Information

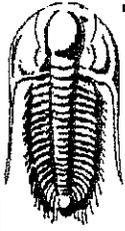
Drill Pipe:	Length: 3294.00 ft	Diameter: 3.80 inches	Volume: 46.21 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 46.21 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3285.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.02 ft			
Tool Length:	76.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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	3.00			3289.00	
Recorder	0.01	6753	Inside	3289.01	
Blank Spacing	33.00			3322.01	
Recorder	0.01	13534	Outside	3322.02	
Perforations	15.00			3337.02	
Bullnose	3.00			3340.02	55.02 Bottom Packers & Anchor

Total Tool Length: 76.02

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WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

Hobrock#5

PO Box 458
Hays KS 67601

3-10s-15w Osborne

Job Ticket: 28868

DST#: 3

ATTN: Rod Trembly

Test Start: 2007.07.12 @ 00:56:10

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 8.75 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 36 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

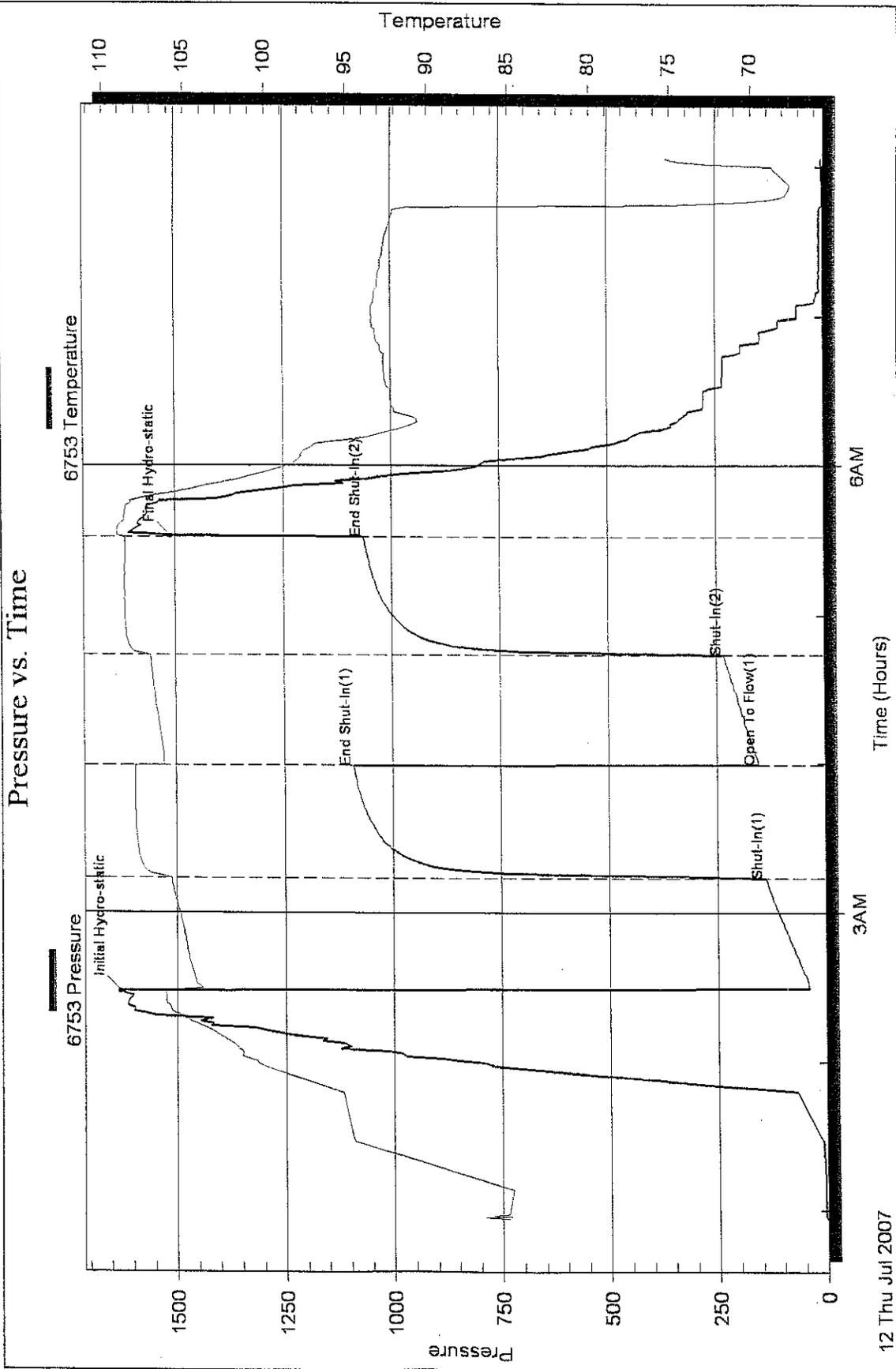
Length ft	Description	Volume bbl
465.00	CO	6.523
120.00	MGO 30%G 58%O 12%M	1.683
0.00	1095'GIP	0.000

Total Length: 585.00 ft Total Volume: 8.206 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



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