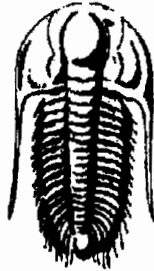


15-163-23583



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Vess Oil**

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

ATTN: Kim Shoekamer

1 10S 20W Rooks KS

Graham #7

Start Date: 2007.02.26 @ 13:22:53

End Date: 2007.02.26 @ 21:17:36

Job Ticket #: 27508 DST #: 1

KCC
JUN 18 2007
CONFIDENTIAL

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Vess Oil

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

ATTN: Kim Shoekamer

Graham #7

1 10S 20W Rooks KS

Job Ticket: 27508

DST#: 1

Test Start: 2007.02.26 @ 13:22:53

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:38:36

Time Test Ended: 21:17:36

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3698.00 ft (KB) To 3788.00 ft (KB) (TVD)**

Total Depth: 3788.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2241.00 ft (KB)

2236.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6769**

Inside

Press@RunDepth: 470.84 psig @ 3701.01 ft (KB)

Start Date: 2007.02.26

End Date:

2007.02.26

Start Time: 13:22:53

End Time:

21:17:36

Capacity: 7000.00 psig

Last Calib.: 2007.02.26

Time On Btm: 2007.02.26 @ 15:38:06

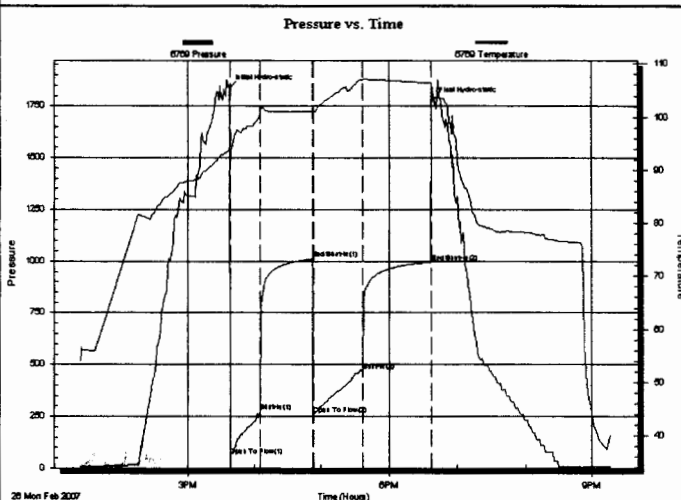
Time Off Btm: 2007.02.26 @ 18:37:36

TEST COMMENT: IFP BOB 3 min.

ISI 1 " blow back

FFP BOB 3 1/2 min.

FSI 1/4 " blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1837.59	93.74	Initial Hydro-static
1	60.32	93.37	Open To Flow (1)
28	271.53	101.01	Shut-In (1)
75	1010.86	101.00	End Shut-In (1)
75	258.55	100.79	Open To Flow (2)
119	470.84	106.98	Shut-In (2)
179	996.12	106.37	End Shut-In (2)
180	1773.73	106.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	W & G HOCM 25%G 45%O 15%W 15%M	0.84
260.00	MCO 80%O 20%M	3.65
400.00	GMO 5%G 85%O 10%M	5.61
245.00	HOCM 40%O 60%M	3.44
90.00	FREE OIL 10%G 90%O	1.26

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Vess Oil

Graham #7

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

1 10S 20W Rooks KS

Job Ticket: 27508

DST#: 1

ATTN: Kim Shoekamer

Test Start: 2007.02.26 @ 13:22:53

Tool Information

Drill Pipe:	Length: 3687.00 ft	Diameter: 3.80 inches	Volume: 51.72 bbl	Tool Weight:	2500.00 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:	80000.00 lb
			<u>Total Volume: 51.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3698.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.02 ft				
Tool Length:	117.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:
Started off bottom with bit 12:18

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3676.00	
Hydraulic tool	5.00			3681.00	
Jars	5.00			3686.00	
Safety Joint	2.00			3688.00	
Packer	5.00			3693.00	27.00 Bottom Of Top Packer
Packer	5.00			3698.00	
Stubb	1.00			3699.00	
Perforations	1.00			3700.00	
Change Over Sub	1.00			3701.00	
Recorder	0.01	6769	Inside	3701.01	
Blank Spacing	63.00			3764.01	
Change Over Sub	1.00			3765.01	
Perforations	20.00			3785.01	
Recorder	0.01	13548	Outside	3785.02	
Bullnose	3.00			3788.02	90.02 Bottom Packers & Anchor

Total Tool Length: 117.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Vess Oil

Graham #7

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

1 10S 20W Rooks KS

Job Ticket: 27508

DST#: 1

ATTN: Kim Shoekamer

Test Start: 2007.02.26 @ 13:22:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.92 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	W & G HOCM 25%G 45%O 15%W 15%M	0.842
260.00	MCO 80%O 20%M	3.647
400.00	GMO 5%G 85%O 10%M	5.611
245.00	HOCM 40%O 60%M	3.437
90.00	FREE OIL 10%G 90%O	1.262

Total Length: 1055.00 ft

Total Volume: 14.799 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 90' GIP

DST Test Number: 1

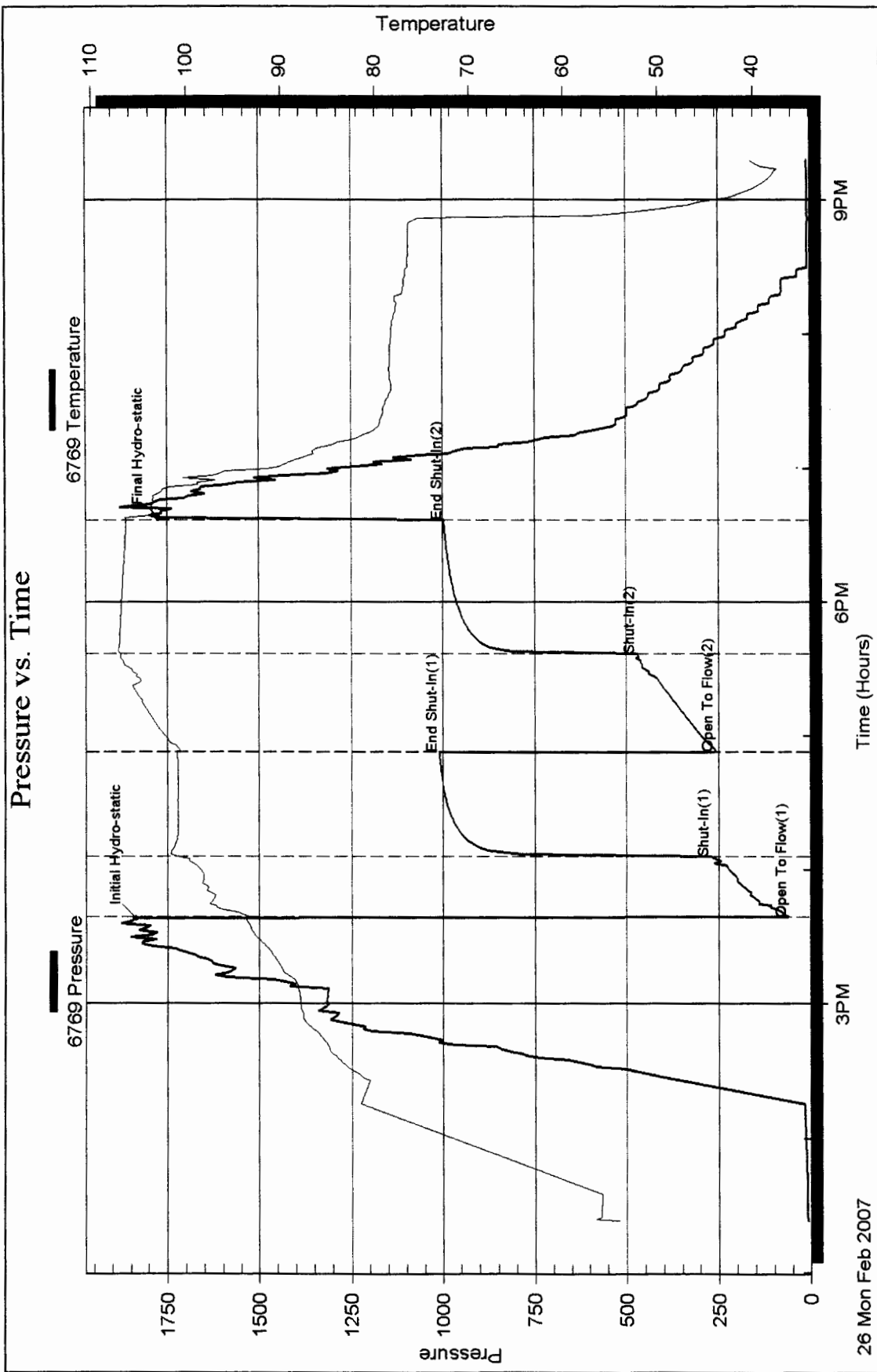
1 10S 20W Rooks KS

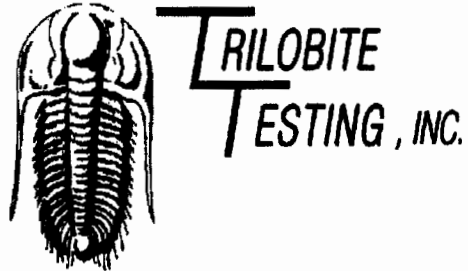
Vess Oil

Inside

Serial #: 6769

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Vess Oil**

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

ATTN: Kim Shoekamer

1 10S 20W Rooks KS

Graham #7

Start Date: 2007.02.27 @ 03:16:32

End Date: 2007.02.27 @ 12:15:30

Job Ticket #: 27509 DST #: 2

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Vess Oil

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

ATTN: Kim Shoekamer

Graham #7

1 10S 20W Rooks KS

Job Ticket: 27509

DST#: 2

Test Start: 2007.02.27 @ 03:16:32

GENERAL INFORMATION:

Formation: **Arbuckle (2)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:02:30

Time Test Ended: 12:15:30

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3791.00 ft (KB) To 3810.00 ft (KB) (TVD)**

Total Depth: 3810.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2241.00 ft (KB)

2236.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6769**

Inside

Press@RunDepth: 1008.80 psig @ 3792.01 ft (KB)

Start Date: 2007.02.27

End Date:

2007.02.27

Start Time: 03:16:32

End Time:

12:15:30

Capacity: 7000.00 psig

Last Calib.: 2007.02.27

Time On Btm: 2007.02.27 @ 05:02:15

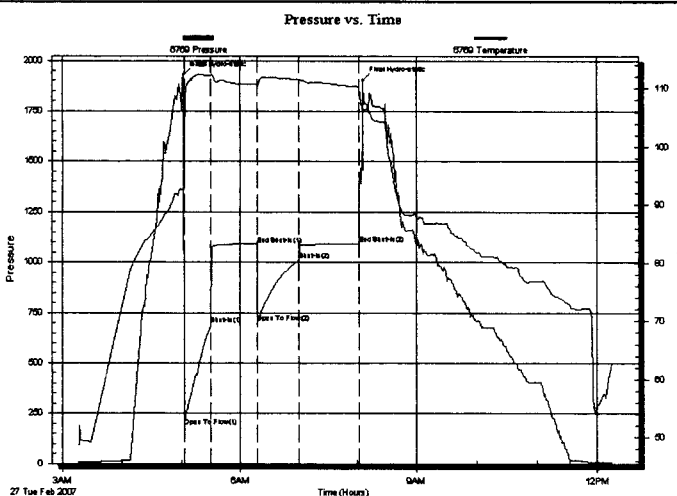
Time Off Btm: 2007.02.27 @ 08:06:00

TEST COMMENT: IFP BOB 1 1/2 min.

ISI 1/4 " blow back

FFP BOB 2 min.

FSI Sur blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.46	92.66	Initial Hydro-static
1	186.45	93.75	Open To Flow (1)
28	691.57	112.21	Shut-In (1)
75	1088.05	110.63	End Shut-In (1)
75	700.86	110.38	Open To Flow (2)
118	1008.80	111.51	Shut-In (2)
180	1093.05	110.29	End Shut-In (2)
184	1902.21	106.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
805.00	MW 90%W 10%M	11.29
1495.00	G FREE OIL 15%G 80%O 5%M	20.97

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Vess Oil

Graham #7

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

1 10S 20W Rooks KS

Job Ticket: 27509

DST#: 2

ATTN: Kim Shoekamer

Test Start: 2007.02.27 @ 03:16:32

Tool Information

Drill Pipe:	Length: 3781.00 ft	Diameter: 3.80 inches	Volume: 53.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 15000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 97000.00 lb
			<u>Total Volume: 53.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3791.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.02 ft			
Tool Length:	46.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3769.00	
Hydraulic tool	5.00			3774.00	
Jars	5.00			3779.00	
Safety Joint	2.00			3781.00	
Packer	5.00			3786.00	27.00 Bottom Of Top Packer
Packer	5.00			3791.00	
Stubb	1.00			3792.00	
Recorder	0.01	6769	Inside	3792.01	
Perforations	15.00			3807.01	
Recorder	0.01	13548	Outside	3807.02	
Bullnose	3.00			3810.02	19.02 Bottom Packers & Anchor

Total Tool Length: 46.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vess Oil

Graham #7

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

1 10S 20W Rooks KS

Job Ticket: 27509

DST#: 2

ATTN: Kim Shoekamer

Test Start: 2007.02.27 @ 03:16:32

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
805.00	MW 90%W 10%M	11.292
1495.00	G FREE OIL 15%G 80%O 5%M	20.971

Total Length: 2300.00 ft

Total Volume: 32.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

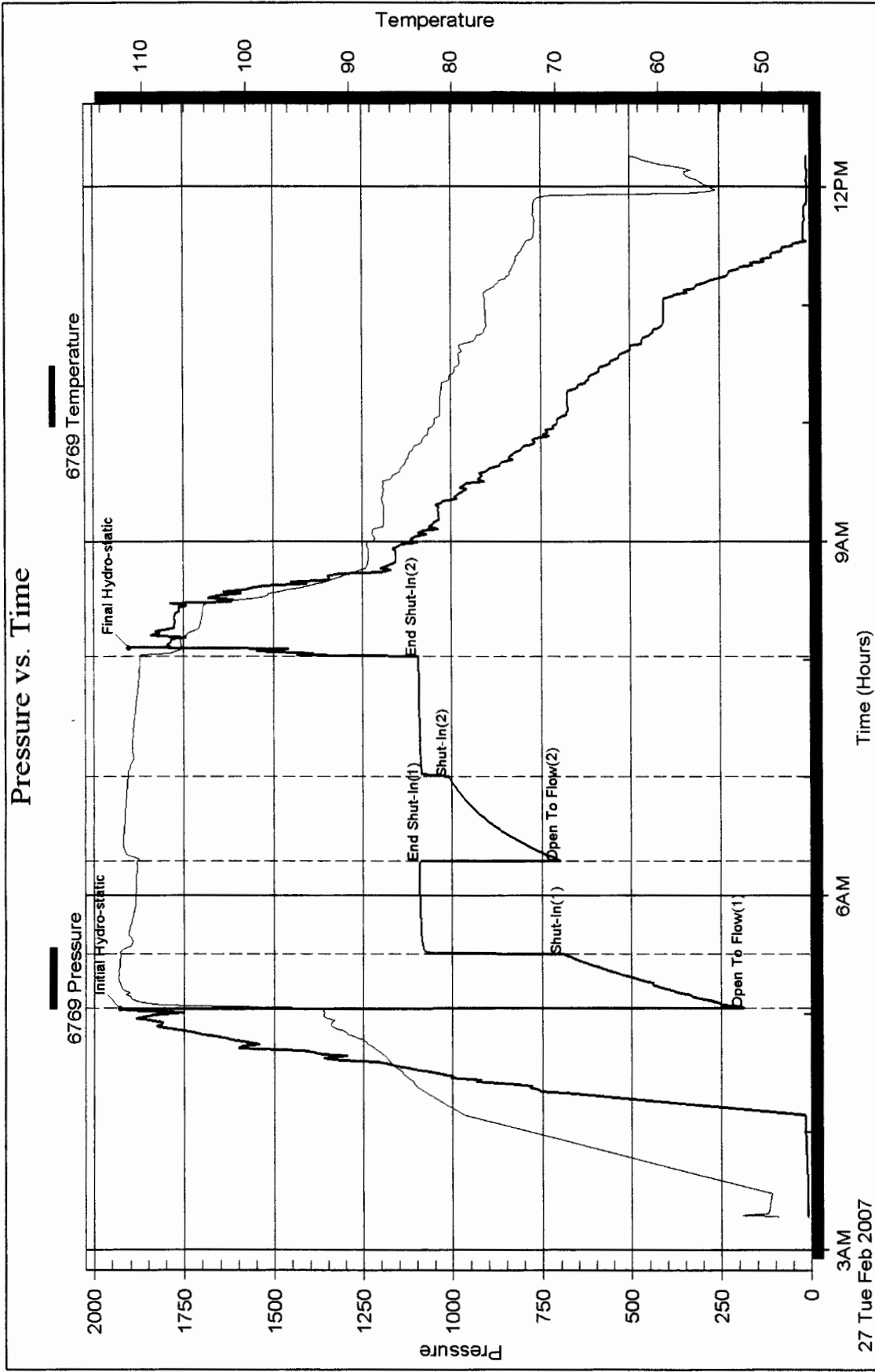
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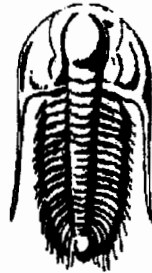
Laboratory Name:

Laboratory Location:

Recovery Comments: 90' GIP

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Vess Oil**

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

ATTN: Kim Shoekamer

1 10S 20W Rooks KS

Graham #7

Start Date: 2007.02.27 @ 20:10:41

End Date: 2007.02.28 @ 03:48:54

Job Ticket #: 27510

DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Vess Oil

Graham #7

1 10S 20W Rooks KS

DST # 3

Arbuckle (3)

2007.02.27



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Vess Oil

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

ATTN: Kim Shoekamer

Graham #7

1 10S 20W Rooks KS

Job Ticket: 27510

DST#: 3

Test Start: 2007.02.27 @ 20:10:41

GENERAL INFORMATION:

Formation: **Arbuckle (3)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:54

Time Test Ended: 03:48:54

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3824.00 ft (KB) To 3839.00 ft (KB) (TVD)**

Total Depth: 3839.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2241.00 ft (KB)

2236.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 404.94 psig @ 3826.01 ft (KB)

Start Date: 2007.02.27

End Date:

2007.02.28

Start Time: 20:10:41

End Time:

03:48:54

Capacity: 7000.00 psig

Last Calib.: 2007.02.28

Time On Btm: 2007.02.27 @ 21:47:39

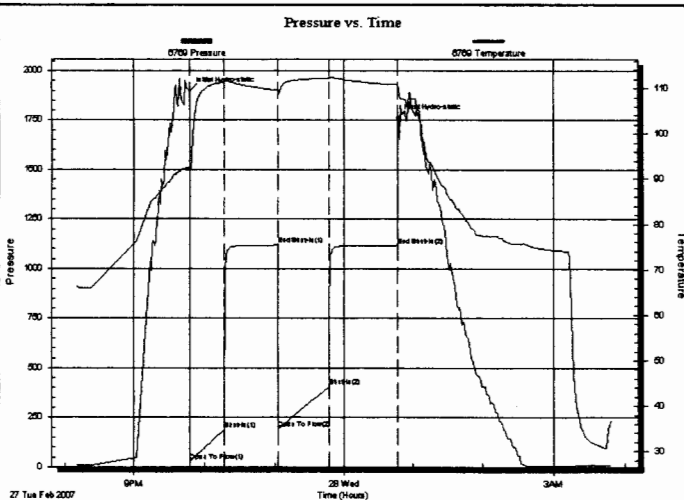
Time Off Btm: 2007.02.28 @ 00:47:09

TEST COMMENT: IFP BOB 7 min.

ISI No blow back

FFP Sur blow throughout

FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.69	92.56	Initial Hydro-static
1	30.53	91.86	Open To Flow (1)
30	186.77	111.39	Shut-In (1)
75	1118.70	109.47	End Shut-In (1)
76	190.86	109.03	Open To Flow (2)
120	404.94	112.21	Shut-In (2)
180	1118.53	110.82	End Shut-In (2)
180	1761.62	111.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
730.00	MV 5%M 95%W	10.24

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Vess Oil

Graham #7

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

1 10S 20W Rooks KS

Job Ticket: 27510

DST#: 3

ATTN: Kim Shoekamer

Test Start: 2007.02.27 @ 20:10:41

Tool Information

Drill Pipe:	Length:	3811.00 ft	Diameter:	3.80 inches	Volume:	53.46 bbl	Tool Weight:	2500.00 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:	80000.00 lb
					Total Volume:	53.46 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		14.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		3824.00 ft					Final	53000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		15.02 ft						
Tool Length:		42.02 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3802.00	
Hydraulic tool	5.00			3807.00	
Jars	5.00			3812.00	
Safety Joint	2.00			3814.00	
Packer	5.00			3819.00	27.00 Bottom Of Top Packer
Packer	5.00			3824.00	
Stubb	1.00			3825.00	
Perforations	1.00			3826.00	
Recorder	0.01	6769	Inside	3826.01	
Perforations	10.00			3836.01	
Recorder	0.01	13548	Outside	3836.02	
Bullnose	3.00			3839.02	15.02 Bottom Packers & Anchor

Total Tool Length: 42.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Vess Oil

Graham #7

1700 Waterfront Pkwy Bldg 500
Wichita KS 67205

1 10S 20W Rooks KS

Job Ticket: 27510

DST#: 3

ATTN: Kim Shoekarrer

Test Start: 2007.02.27 @ 20:10:41

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:

34000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
730.00	MW 5%M 95%W	10.240

Total Length: 730.00 ft

Total Volume: 10.240 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

