

15-051-25076

9-11s-19w

15-051-25076

IND



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Co.**

704 East 12 Th. St.
Hays KS 67601

ATTN: Randy Kilian

9-11s-19w Ellis KS

T.Warren #1

Start Date: 2001.04.03 @ 12:30:00

End Date: 2001.04.03 @ 20:00:00

Job Ticket #: 14297 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Hertel Oil Co.

T.Warren #1

9-11s-19w Ellis KS

DST #: 1

Tor.-Lkc-D

2001.04.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hertel Oil Co.

704 East 12 Th. St.
Hays KS 67601

ATTN: Randy Kilian

T. Warren #1

9-11s-19w Ellis KS

Job Ticket: 14297

DST#: 1

Test Start: 2001.04.03 @ 12:30:00

GENERAL INFORMATION:

Formation: **Tor.--Lkc--D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:11

Time Test Ended: 20:00:00

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3259.00 ft (KB) To 3371.00 ft (KB) (TVD)**

Total Depth: 3371.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2075.00 ft (KB)

2070.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3227 Inside

Press@RunDepth: 145.64 psig @ 3262.01 ft (KB)

Start Date: 2001.04.03

End Date: 2001.04.03

Start Time: 12:48:46

End Time: 18:14:10

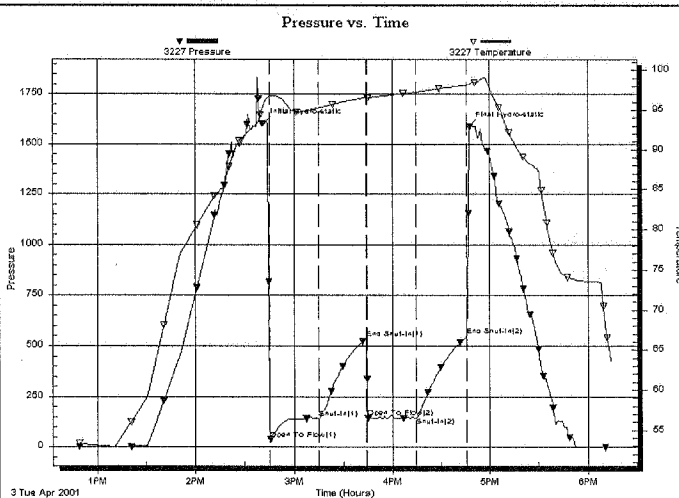
Capacity: 7000.00 psig

Last Calib.: 2001.04.02

Time On Btm: 2001.04.03 @ 14:42:11

Time Off Btm: 2001.04.03 @ 16:47:11

TEST COMMENT: IF-Good Blow 8" & Depleted
FF-Dead-Took Weight 8" Bot.
Tool Slid 2'



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
114	1601.22	96.01	Initial Hydro-static
117	32.19	96.71	Open To Flow (1)
147	138.31	95.27	Shut-In(1)
176	535.01	96.60	End Shut-In(1)
176	143.12	96.59	Open To Flow (2)
206	145.64	97.28	Shut-In(2)
237	549.13	98.18	End Shut-In(2)
239	1587.58	98.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	Mud	1.43

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hertel Oil Co.

T. Warren #1

704 East 12 Th. St.
Hays KS 67601

9-11s-19w Ellis KS

Job Ticket: 14297

DST#: 1

ATTN: Randy Kilian

Test Start: 2001.04.03 @ 12:30:00

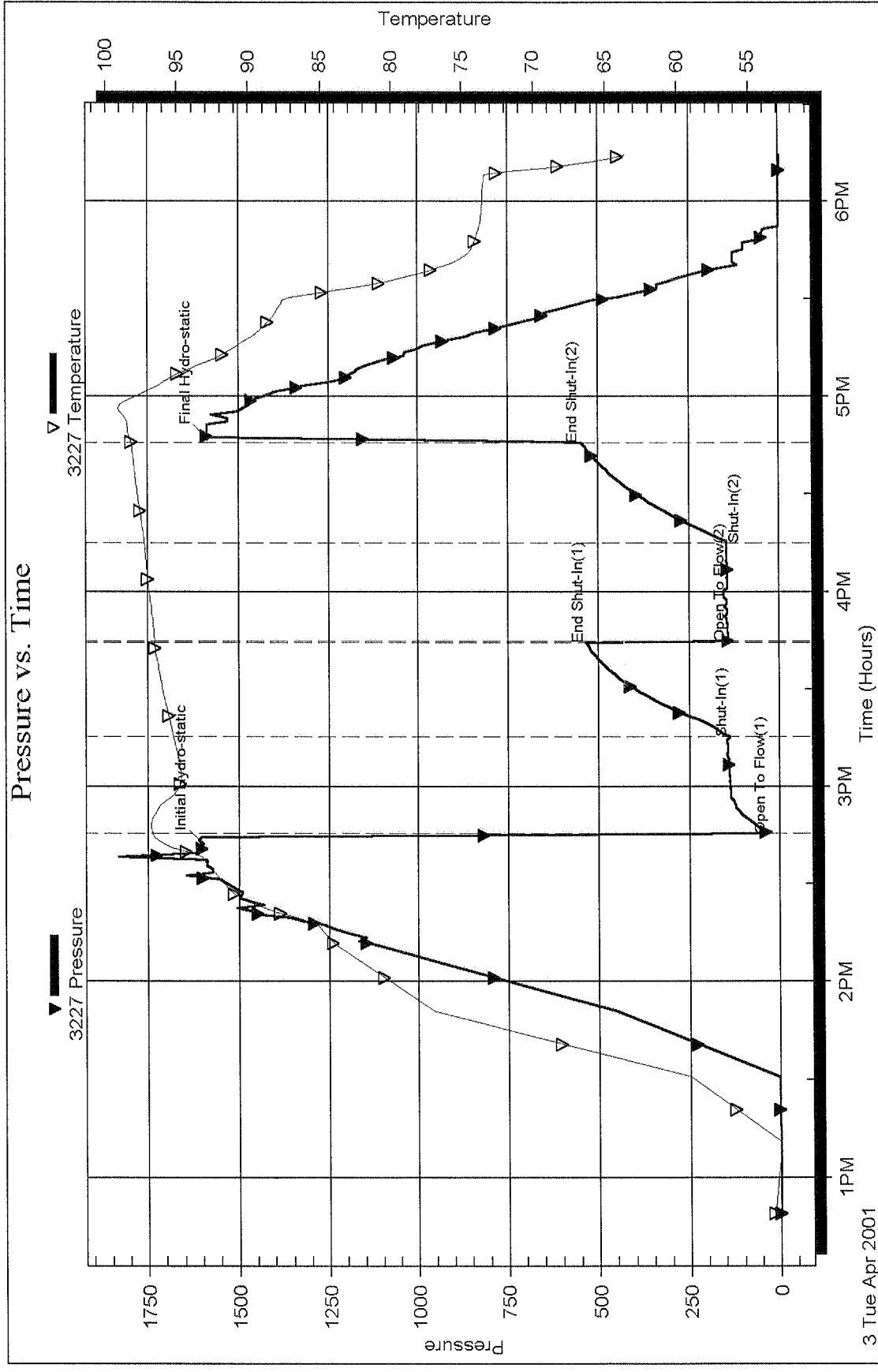
Tool Information

Drill Pipe:	Length: 3031.00 ft	Diameter: 3.80 inches	Volume: 42.52 bbl	Tool Weight: 3000.00 lb
Drill Collar:	Length: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
Drill Pipe Above KB:	35.00 ft			Tool Chased 10.00 ft
Depth to Top Packer:	3254.00 ft			String Weight: Initial 44000.00 lb
Depth to Bottom Packer:	ft			Final 45000.00 lb
Interval between Packers:	ft			
Tool Length:	132.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3240.00	
S.I. Tool	5.00			3245.00	
HMV	5.00			3250.00	
Packer	4.00			3254.00	15.00 Bottom Of Top Packer
Packer	5.00			3259.00	
Stubb	1.00			3260.00	
Perforations	2.00			3262.00	
Recorder	0.01	3227	Inside	3262.01	
C.O. Sub	1.00			3263.01	
Blank Spacing	94.00			3357.01	
C.O. Sub	1.00			3358.01	
Perforations	10.00			3368.01	
Recorder	0.01	13308	Outside	3368.02	
Bullnose	3.00			3371.02	117.02 Bottom Packers & Anchor

Total Tool Length: 132.02





DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Co.**

704 East 12 Th. St.
Hays KS 67601

ATTN: Randy Kilian

9-11s-19w Ellis KS

T.Warren #1

Start Date: 2001.04.04 @ 20:45:00

End Date: 2001.04.05 @ 06:00:00

Job Ticket #: 14298 DST #: 2

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



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DRILL STEM TEST REPORT

Hertel Oil Co.

704 East 12 Th. St.
Hays KS 67601

ATTN: Randy Kilian

T.Warren #1

9-11s-19w Ellis KS

Job Ticket: 14298

DST#: 2

Test Start: 2001.04.04 @ 20:45:00

GENERAL INFORMATION:

Formation: Arb.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:59:12

Time Test Ended: 06:00:00

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: 3608.00 ft (KB) To 3627.00 ft (KB) (TVD)

Total Depth: 3627.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2075.00 ft (KB)

2070.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3227 Inside

Press@RunDepth: 33.83 psig @ 3611.01 ft (KB)

Start Date: 2001.04.04

End Date:

2001.04.05

Start Time: 21:06:47

End Time:

05:04:41

Capacity: 7000.00 psig

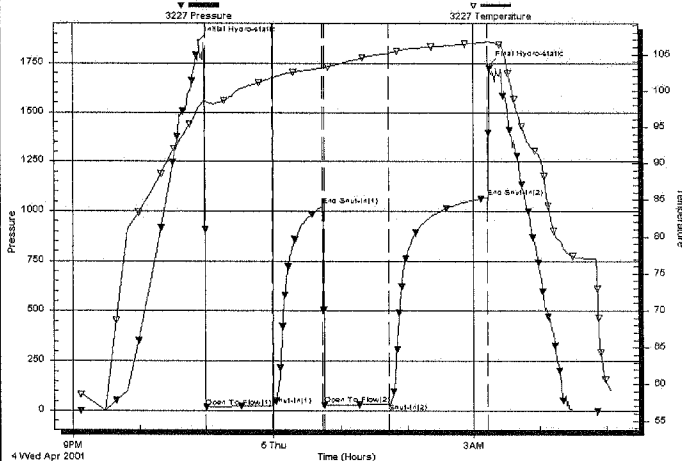
Last Calib.: 2001.04.02

Time On Btm: 2001.04.04 @ 22:53:12

Time Off Btm: 2001.04.05 @ 03:14:12

TEST COMMENT: IF-Weak Dead In 27 Min.
FF-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
107	1860.82	97.78	Initial Hydro-static
113	16.43	98.49	Open To Flow (1)
172	25.84	101.78	Shut-In (1)
217	1024.30	103.18	End Shut-In (1)
218	27.04	103.14	Open To Flow (2)
277	33.83	105.20	Shut-In (2)
366	1069.08	106.73	End Shut-In (2)
368	1738.31	106.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Heavy Oil	0.00
10.00	Mud	0.05

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Hertel Oil Co.

T. Warren #1

704 East 12 Th. St.
Hays KS 67601

9-11s-19w Ellis KS

Job Ticket: 14298

DST#: 2

ATTN: Randy Kilian

Test Start: 2001.04.04 @ 20:45:00

Tool Information

Drill Pipe:	Length:	3373.00 ft	Diameter:	3.80 inches	Volume:	47.31 bbl	Tool Weight:	2500.00 lb
Drill Collar:	Length:	243.00 ft	Diameter:	2.25 inches	Volume:	1.20 bbl	Weight set on Packer:	20000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	55000.00 lb
Drill Pipe Above KB:		28.00 ft					Tool Chased	0.00 ft
Depth to Top Packer:		3603.00 ft					String Weight: Initial	45000.00 lb
Depth to Bottom Packer:		ft					Final	45000.00 lb
Interval between Packers:		ft						
Tool Length:		40.01 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3589.00	
S.I. Tool	5.00			3594.00	
HMV	5.00			3599.00	
Packer	4.00			3603.00	15.00 Bottom Of Top Packer
Packer	5.00			3608.00	
Stubb	1.00			3609.00	
Perforations	2.00			3611.00	
Recorder	0.01	3227	Inside	3611.01	
Perforations	13.00			3624.01	
Recorder	1.00	13308	Outside	3625.01	
Bullnose	3.00			3628.01	25.01 Bottom Packers & Anchor

Total Tool Length: 40.01

