

15-055-21730

9-26-34w



TRILOBITE
TESTING, INC

Release
JAN 25 2005
From
Confidential

DRILL STEM TEST REPORT

Prepared For: **Helmerich & Payne**

1579 east 21 st
Tulsa, OK 74114

GINAL

JUL 19 2001

ATTN: H&P

CONFIDENTIAL

9-26-34 Finney KS

Bedford B3

CONFIDENT

Start Date: 2001.04.06 @ 14:30:00

End Date: 2001.04.07 @ 02:45:00

Job Ticket #: 13706

DST #: 1

KANSAS CITY, MO

JUL 19 2001

CONSERVATION DIVISION

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Helmerich & Payne

Bedford B3

9-26-34 Finney KS

DST #: 1

marmaton

2001.04.06

JUL 19 2001

CONFIDENTIAL


**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Helmerich & Payne

Bedford B3

1579 east 21 st
Tulsa , OK 74114

9-26-34 Finney KS

Job Ticket: 13706

DST#: 1

ATTN: H&P

Test Start: 2001.04.06 @ 14:30:00

ORIGINAL

GENERAL INFORMATION:

Formation: **marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:09:11

Time Test Ended: 02:45:00

Interval: **4452.00 ft (KB) To 4473.00 ft (KB) (TVD)**Total Depth: **4473.00 ft (KB)**Hole Diameter: **7.88 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 15

Reference Elevations: 2966.00 ft (KB)

2955.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **2346** Inside

Press@RunDepth: 305.77 psig @ 4453.00 ft (KB)

Start Date: 2001.04.06

End Date:

2001.04.07

Start Time: 14:22:16

End Time:

02:34:11

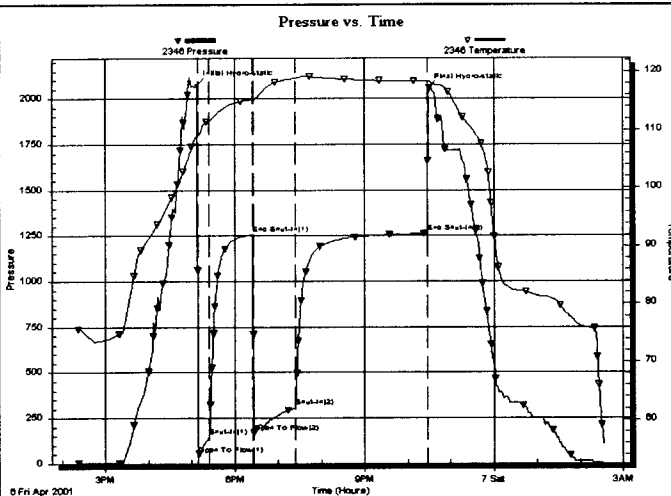
Capacity: 7000.00 psig

Last Calib.: 2001.04.05

Time On Btm: 2001.04.06 @ 17:07:11

Time Off Btm: 2001.04.06 @ 22:29:11

TEST COMMENT: B.O.B in 3 1/2 min
return blow in 1 min built to 3"
B.O.B in 16 min , died back to 6"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
165	2075.02	108.85	Initial Hydro-static
167	47.94	108.99	Open To Flow (1)
182	146.29	111.59	Shut-In (1)
243	1257.54	115.26	End Shut-In (1)
244	165.48	115.27	Open To Flow (2)
302	305.77	118.87	Shut-In (2)
485	1262.03	118.38	End Shut-In (2)
487	2056.57	118.37	Final Hydro-static

Recovery

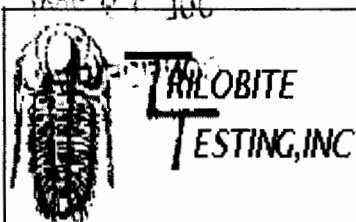
Length (ft)	Description	Volume (bbl)
150.00	O&GCW 20%g 10%o 70%	0.74
407.00	cgo 25%g 75%o	2.00
120.00	smcgo 20%g 70%o 10%am	0.59
120.00	mcgo 10%g 50%o 40%am	1.41

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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JUL 19 2001

CONSERVATION DIVISION



DRILL STEM TEST REPORT

TOOL DIAGRAM

Helmerich & Payne

Bedford B3

1579 east 21 st
Tulsa , OK 74114

9-26-34 Finney KS

Job Ticket: 13706

DST#: 1

ATTN: H&P

Test Start: 2001.04.06 @ 14:30:00

Tool Information

Drill Pipe:	Length: 3740.00 ft	Diameter: 3.80 inches	Volume: 52.46 bbl	Tool Weight: 2000.00 lb
Drill Collar:	Length: 707.00 ft	Diameter: 2.25 inches	Volume: 3.48 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 160000.0 lb
Drill Pipe Above KB:	26.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	4447.00 ft			String Weight: Initial 90000.00 lb
Depth to Bottom Packer:	ft			Final 91000.00 lb
Interval between Packers:	ft			
Tool Length:	52.00 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			4422.00	
S.I. Tool	5.00			4427.00	
Sampler	3.00			4430.00	
HMV	5.00			4435.00	
Jars	5.00			4440.00	
Safety Joint	2.00			4442.00	
Packer	5.00			4447.00	26.00 Bottom Of Top Packer
Packer	5.00			4452.00	
Stubb	1.00			4453.00	
Recorder	0.00	2346	Inside	4453.00	
Perforations	15.00			4468.00	
Recorder	0.00	11058	Outside	4468.00	
Bullnose	5.00			4473.00	26.00 Bottom Packers & Anchor

Total Tool Length: 52.00

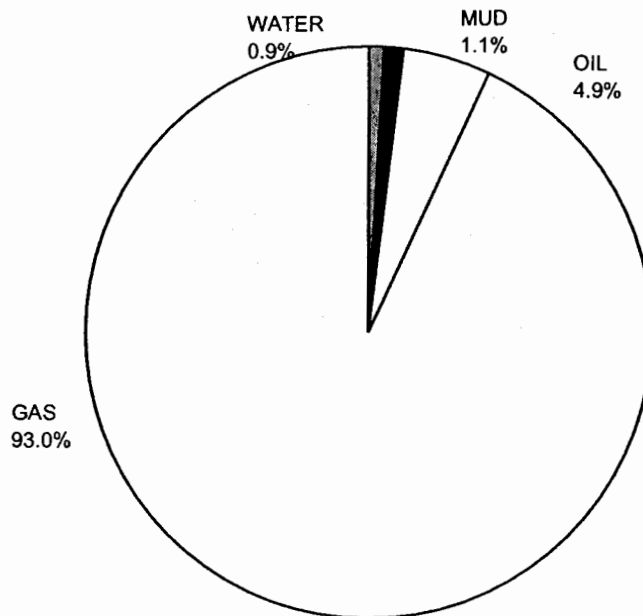
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 13706

SAMPLE #		TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRILL	1	3530	100	3530	0	0	0	0	0	0
PIPE	2	90	10	9	50	45	0	0	40	36
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	30	10	3	50	15	0	0	40	12
COLLARS	2	120	20	24	70	84	0	0	10	12
	3	407	25	101.75	75	305.25	0	0	0	0
	4	150	20	30	10	15	70	105	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		4327	0	3697.75	0	464.25	0	105	0	60

BBL OIL= 2.6900325 * HRS OPEN 1.25 = BBL/DAY 51.648624
 BBL WATER= 0.51345 * = 9.85824
 BBL MUD= 0.62928
 BBL GAS = 51.100868



KANSAS CITY

JUL 19 1981

CONSERVATION

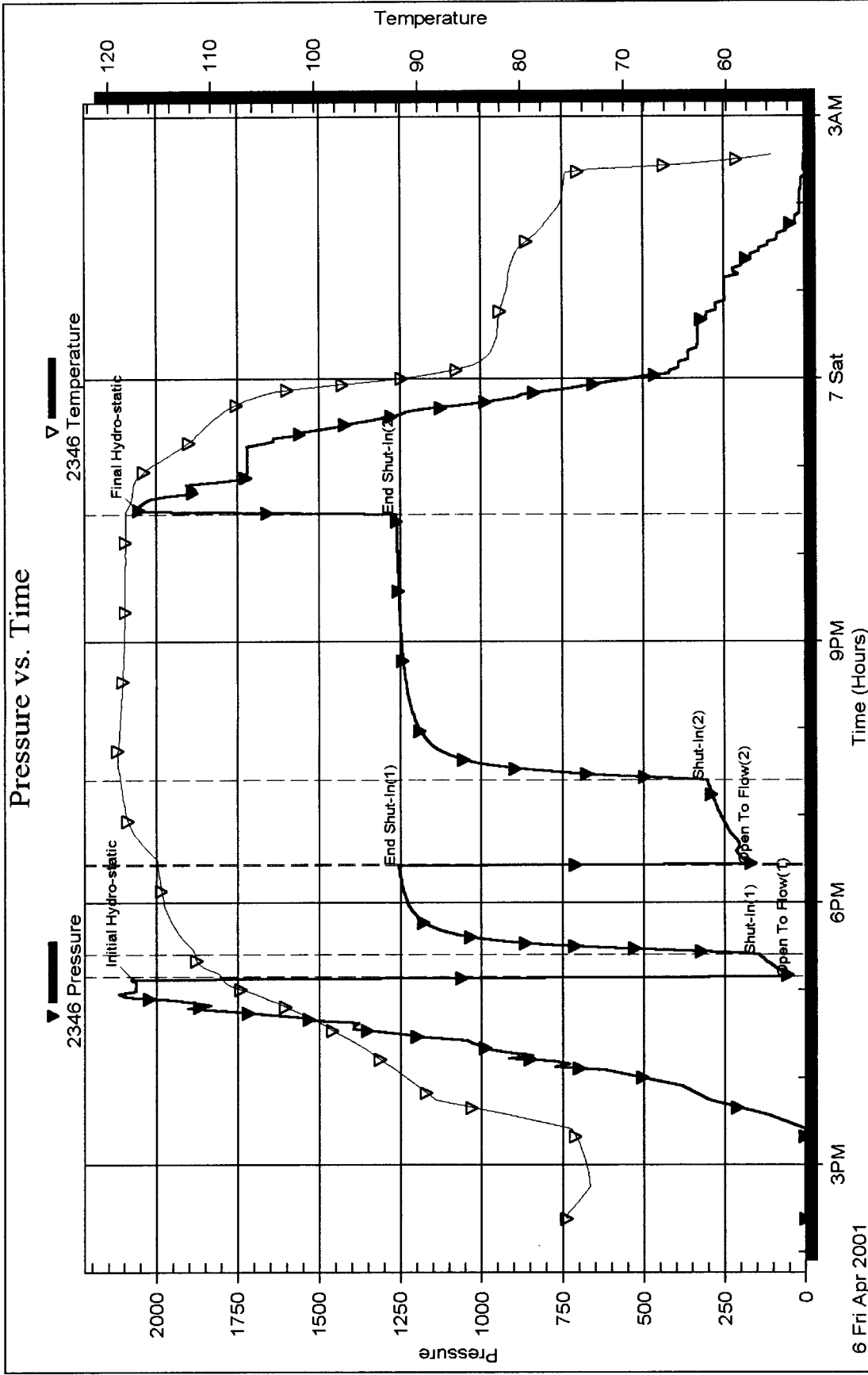
Serial #: 2346

Inside

Helmerich & Payne

9-26-34 Finney KS

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 13706

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DRILL STEM TEST REPORT

Prepared For: **Helmerich & Payne**

1579 east 21 st
Tulsa , OK 74114

ATTN: H&P

9-26-34 Finney KS

Bedford B3

Start Date: 2001.04.07 @ 13:10:00

End Date: 2001.04.07 @ 22:40:00

Job Ticket #: 13706 DST #: 2

WARRANTY CLAIM

JUL 19 2001

CONSERVATION DIVISION

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Helmerich & Payne

1579 east 21 st
Tulsa, OK 74114

ATTN: H&P

Bedford B3

9-26-34 Finney KS

Job Ticket: 13706

DST#: 2

Test Start: 2001.04.07 @ 13:10:00

GENERAL INFORMATION:

Formation: **pawnee**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 15:40:23

Time Test Ended: 22:40:00

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **15**

Interval: **4520.00 ft (KB) To 4546.00 ft (KB) (TVD)**

Total Depth: **4546.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2966.00 ft (KB)**

2955.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **2346**

Press@RunDepth: **58.97 psig @ ft (KB)**

Start Date: **2001.04.07**

End Date:

2001.04.07

Start Time: **13:13:28**

End Time:

22:28:23

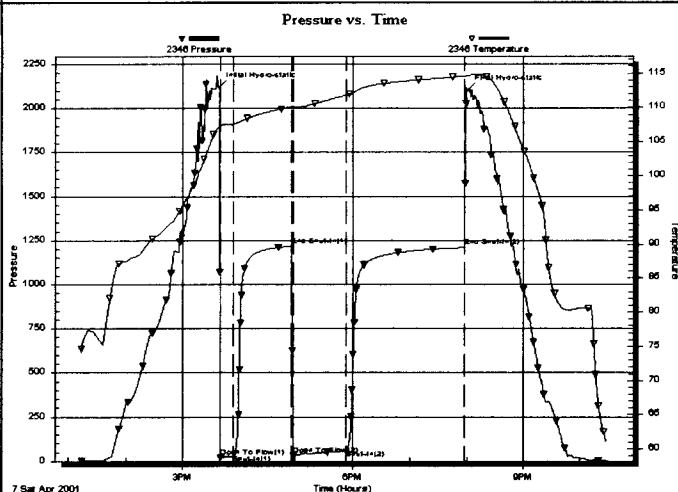
Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2001.04.07 @ 15:39:23**

Time Off Btm: **2001.04.07 @ 20:01:23**

TEST COMMENT: Weak surface blow died in 1 1/2 min.
No return
Weak surface blow in 5 min. built to weak 1/2" in.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
146	2119.53	107.30	Initial Hydro-static
147	19.13	107.39	Open To Flow (1)
161	28.84	107.63	Shut-In(1)
223	1217.86	110.14	End Shut-In(1)
224	31.69	110.13	Open To Flow (2)
280	58.97	111.88	Shut-In(2)
404	1209.99	114.58	End Shut-In(2)
408	2102.28	114.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	drilling mud 100% mud	0.20

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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JUL 19 2001

CONSERVATION DIVISION



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Helmerich & Payne

Bedford B3

1579 east 21 st
Tulsa , OK 74114

9-26-34 Finney KS

Job Ticket: 13706

DST#: 2

ATTN: H&P

Test Start: 2001.04.07 @ 13:10:00

Tool Information

Drill Pipe:	Length: 3803.00 ft	Diameter: 3.80 inches	Volume: 53.35 bbl	Tool Weight: 2000.00 lb
Drill Collar:	Length: 707.00 ft	Diameter: 2.25 inches	Volume: 3.48 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 130000.0 lb
Drill Pipe Above KB:	21.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	4515.00 ft			String Weight: Initial 92000.00 lb
Depth to Bottom Packer:	ft			Final 92000.00 lb
Interval between Packers:	ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

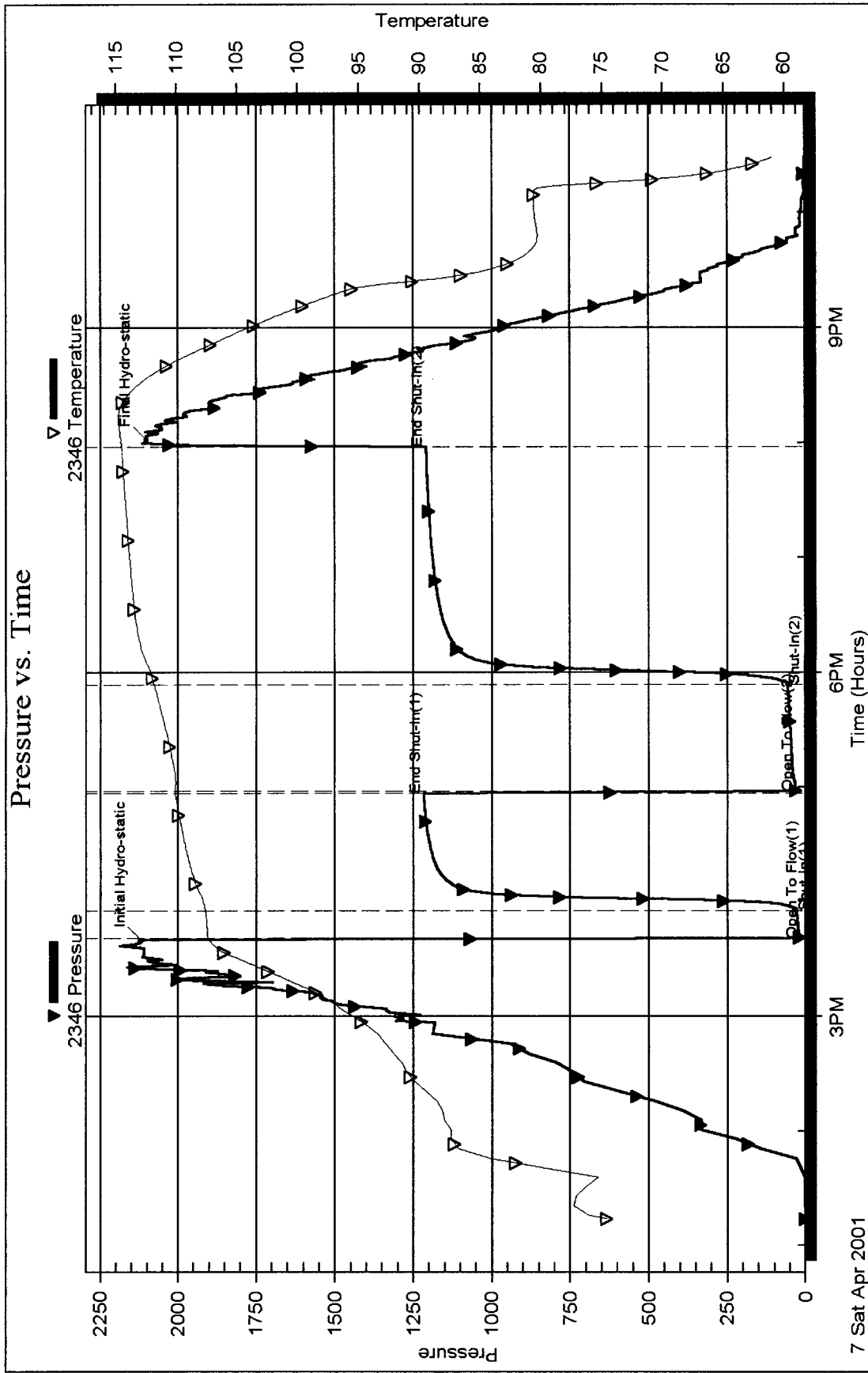
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4490.00	
S.I. Tool	5.00			4495.00	
Sampler	3.00			4498.00	
HMV	5.00			4503.00	
Jars	5.00			4508.00	
Safety Joint	2.00			4510.00	
Packer	5.00			4515.00	26.00 Bottom Of Top Packer
Packer	5.00			4520.00	
Stubb	1.00			4521.00	
Recorder	0.00	2346	Inside	4521.00	
Perforations	20.00			4541.00	
Recorder	0.00	11058	Outside	4541.00	
Bullnose	5.00			4546.00	31.00 Bottom Packers & Anchor

Total Tool Length: 57.00

Serial #: 2346

Helmerich & Payne

9-26-34 Finney KS



Trilobite Testing, Inc

Ref. No: 13706

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