

23-29s-7w

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MISSISSIPPI COUNTY

15-095-21782

American Energies Co

Voran "A-1"

23-29S-7W Kingman KS

DST #: 1

Mississippi Chert

2001.03.16



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Prepared For: **American Energies Co**

155 N Market #710
Wichita KS

ATTN: Doug Davis

23-29S-7W Kingman KS

Voran "A-1"

Start Date: 2001.03.16 @ 00:01:00

End Date: 2001.03.16 @ 05:40:00

Job Ticket #: 13991 DST #: 1

15-095-21782

W2 NW SW

1980 FSL 4950 FEL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

A05 15-095-21782-00-00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Energies Co

Voran "D-1"

155 N Market #710
Wichita KS

23-29S-7W Kingman KS

ATTN: Doug Davis

Job Ticket: 13991

DST#: 1

Test Start: 2001.03.16 @ 00:01:00

GENERAL INFORMATION:

Formation: **Mississippi Chert**

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

Time Tool Opened: 01:55:36

Time Test Ended: 05:40:00

Test Type: **Conventional Bottom Hole**

Tester: **Lanny Saloga**

Unit No: **14**

Interval: **4142.00 ft (KB) To 4161.00 ft (KB) (TVD)**

Total Depth: **4161.00 ft (KB)**

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

Reference Elevations: **1565.00 ft (KB)**

1560.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: **3017** Inside

Press@RunDepth: **42.58 psig @ 4144.00 ft (KB)**

Start Date: **2001.03.16**

Start Time: **00:01:11**

End Date:

End Time:

2001.03.16

08:29:50

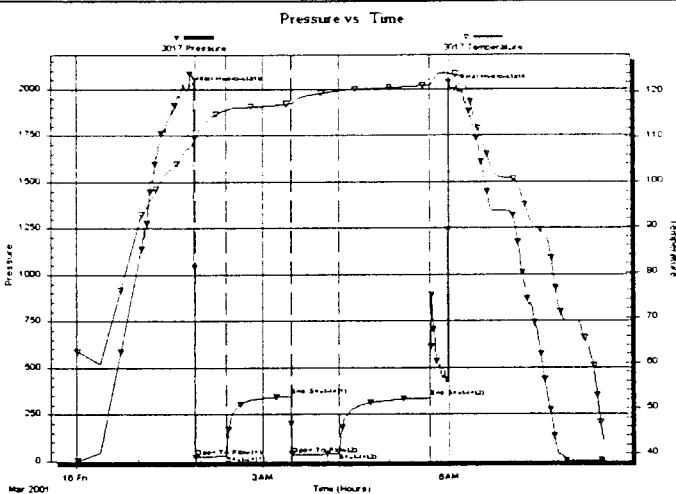
Capacity: **7000.00 psig**

Last Calib.: **2001.03.15**

Time On Btm: **2001.03.16 @ 01:47:21**

Time Off Btm: **2001.03.16 @ 06:05:21**

TEST COMMENT: Strong OBB in 2 min. Cracked 2" slightly. I.F.P.
No blow -back. I.S.I.P.
Strong immed. GTS in 32 min. To weak to guage. Gas burned. F.F.P.
No blow -back. F.S.I.P. Jarred 98,000 over string IF: Strong bob in 2 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
107	1997.22	107.19	Initial Hydro-static
115	18.67	109.99	Open To Flow (1)
145	29.76	116.07	Shut-In(1)
205	345.01	117.46	End Shut-In(1)
206	28.82	117.49	Open To Flow (2)
251	42.58	120.29	Shut-In(2)
341	336.54	121.55	End Shut-In(2)
365	2001.71	123.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4060 GIP	0.00
65.00	Slt Gas cut Mud 2%G 98%M	0.91

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Energies Co

Voran "D-1"

155 N Market #710
Wichita KS

23-29S-7W Kingman KS

ATTN: Doug Davis

Job Ticket: 13991

DST#: 1

Test Start: 2001.03.16 @ 00:01:00

Tool Information

Drill Pipe:	Length: 4125.00 ft	Diameter: 3.80 inches	Volume: 57.86 bbl	Tool Weight: 1800.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 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: 98000.00 lb
Drill Pipe Above KB:	10.00 ft			Tool Chased ft
Depth to Top Packer:	4137.00 ft			String Weight: Initial 62000.00 lb
Depth to Bottom Packer:	ft			Final 62000.00 lb
Interval between Packers:	ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Strong OBB in 2 min. Cracked 2" slightly I.F.P.
No blow-back. I.S.I.P.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4116.00	
S.I. Tool	5.00			4121.00	
HMV	5.00			4126.00	
Jars	5.00			4131.00	
Safety Joint	2.00			4133.00	
Packer	4.00			4137.00	22.00 Bottom Of Top Packer
Packer	5.00			4142.00	
Stubb	1.00			4143.00	
Perforations	1.00			4144.00	
Recorder	0.00	3017	Inside	4144.00	
Perforations	15.00			4159.00	
Recorder	0.00	10242	Inside	4159.00	
Bullnose	2.00			4161.00	24.00 Bottom Packers & Anchor

Total Tool Length: 46.00

NATURAL GAS ANALYSIS REPORT

Sampled by:
 Trilobite Testing, L. L. C.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 913-625-5620

Analyzed by:
 Caraway Analytical, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 316-624-5389
 Fax: 316-626-7108

Lab Number: 20011438 Analyzed: 03/20/01

Sample From: Varan D-1 DST 1 Pressure:
 Producer: American Energies Temperature:

Date: 03/16/01 Location: 23-29-7

Time: County: Kingman
 Sampler: Lanny State: Kansas
 Source: Formation: Miss/

-----Chirt

	Mole %	GPM
Helium	He: 0.155	0.000
Hydrogen	H2: 0.028	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.695	0.000
Carbon Dioxide	CO2: 0.054	0.000
Methane	C1: 83.051	0.000
Ethane	C2: 6.083	1.627
Propane	C3: 3.251	0.896
Iso Butane	iC4: 0.484	0.158
Normal Butane	nC4: 1.322	0.417
Iso Pentane	iC5: 0.350	0.128
Normal Pentane	nC5: 0.487	0.176
Hexanes Plus	C6+: 1.040	0.454

TOTAL: 100.000 3.856

Z Fact: 0.9970

SP.GR.: 0.7024

BTU (SAT): 1159.8 @ 14.73 psia

BTU (DRY): 1180.3 @ 14.73 psia

OCTANE RATING: 119.8

COMMENTS:

0.000

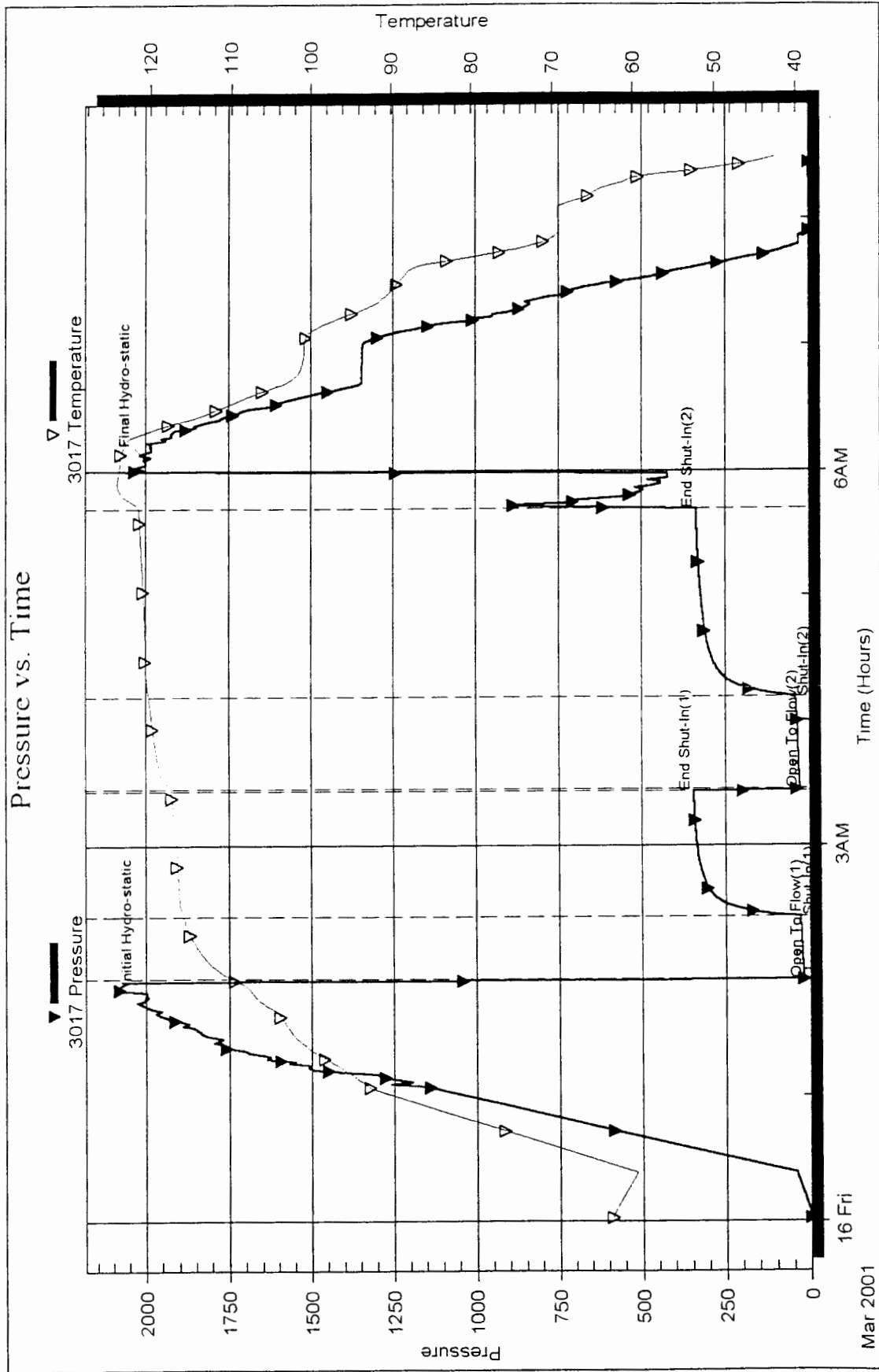
Serial #: 3017

Inside

American Energies Co

23-29S-7W Kingman KS

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 13991

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DRILL STEM TEST REPORT

Prepared For: **American Energies Co**

155 N Market #710
Wichita KS

ATTN: Doug Davis

23-29S-7W Kingman KS

Voran "D-1"

Start Date: 2001.03.16 @ 15:41:00

End Date: 2001.03.16 @ 20:45:00

Job Ticket #: 13992 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

American Energies Co

Voran "D-1"

23-29S-7W Kingman KS

DST #: 2

Mississippi Dolomite

2001.03.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Energies Co

Voran "D-1"

155 N Market #710
Wichita KS

23-29S-7W Kingman KS

Job Ticket: 13992 DST#: 2

ATTN: Doug Davis

Test Start: 2001.03.16 @ 15:41:00

GENERAL INFORMATION:

Formation: **Mississippi Dolomite**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:02:21

Time Test Ended: 20:45:00

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **4172.00 ft (KB) To 4185.00 ft (KB) (TVD)**

Total Depth: 4185.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1565.00 ft (KB)

1560.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **3017** Inside

Press@RunDepth: 38.48 psig @ 4174.00 ft (KB)

Start Date: 2001.03.16

End Date: 2001.03.16

Start Time: 15:41:11

End Time: 23:05:05

Capacity: 7000.00 psig

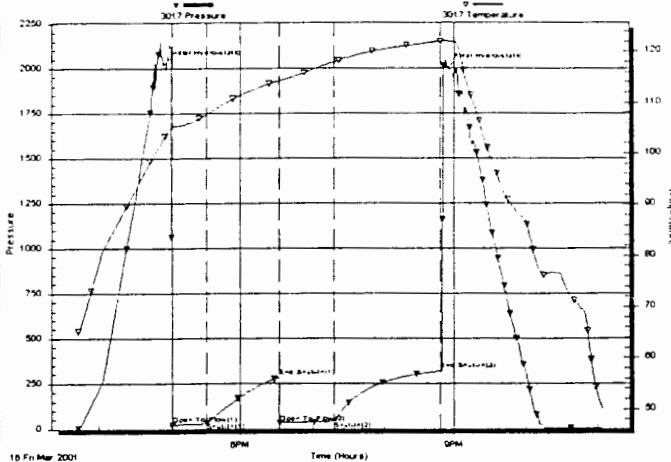
Last Calib.: 2001.03.15

Time On Btm: 2001.03.16 @ 16:55:21

Time Off Btm: 2001.03.16 @ 20:54:21

TEST COMMENT: Weak 1/2" built to 8 1/2" in bucket. 30 min. I.F.P.
No blow -back. I.S.I.P.
Fair 4" built to strong OBB in 20 min. F.F.P.
No blow -back. F.S.I.P. IF: Weak 1/2" built to 8 1/2" in bucket.

Pressure vs Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
75	2021.67	103.12	Initial Hydro-static
82	21.95	105.22	Open To Flow (1)
111	29.04	107.75	Shut-In(1)
170	281.95	114.25	End Shut-In(1)
171	28.10	114.29	Open To Flow (2)
216	38.48	117.94	Shut-In(2)
307	317.52	121.98	End Shut-In(2)
314	2001.53	122.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	188 GIP	0.00
62.00	Sl: Gas cut Mud w/scum of Oil 3%G 97%M	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Energies Co

Voran "D-1"

155 N Market #710
Wichita KS

23-29S-7W Kingman KS

Job Ticket: 13992

DST#: 2

ATTN: Doug Davis

Test Start: 2001.03.16 @ 15:41:00

Tool Information

Drill Pipe:	Length: 4065.00 ft	Diameter: 3.80 inches	Volume: 57.02 bbl	Tool Weight: 1800.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 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: 14000.00 lb
Drill Pipe Above KB:	10.00 ft			Tool Chased ft
Depth to Top Packer:	4167.00 ft			String Weight: Initial 66000.00 lb
Depth to Bottom Packer:	ft			Final 66000.00 lb
Interval between Packers:	ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Weak 1/2" built to 8 1/2" in bucket. 30 min. I.F.P.
No blow-back. I.S.I.P.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4146.00	
S.I. Tool	5.00			4151.00	
HMV	5.00			4156.00	
Jars	5.00			4161.00	
Safety Joint	2.00			4163.00	
Packer	4.00			4167.00	22.00 Bottom Of Top Packer
Packer	5.00			4172.00	
Stubb	1.00			4173.00	
Perforations	1.00			4174.00	
Recorder	0.00	3017	inside	4174.00	
Perforations	9.00			4183.00	
Recorder	0.00	10242	inside	4183.00	
Bullnose	2.00			4185.00	18.00 Bottom Packers & Anchor

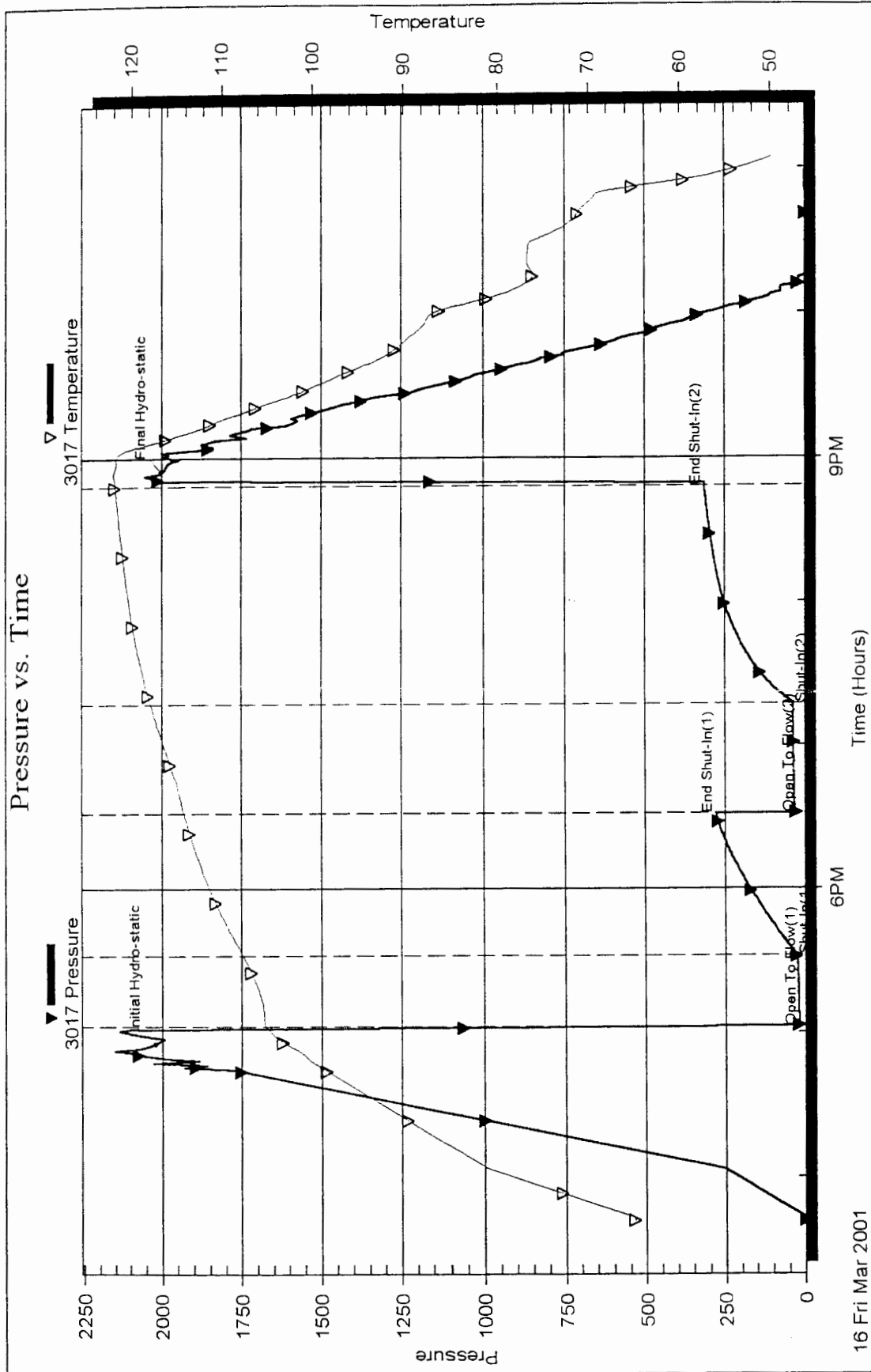
Total Tool Length: 40.00

Serial #: 3017

Inside

American Energies Co

23-29S-7W Kingman KS



16 Fri Mar 2001

6PM

9PM