



DRILL STEM TEST REPORT

Prepared For: **American Energies Co**

155 N Market #710
Wichita KS

ATTN: Doug Davis

23-29S-7W Kingman KS

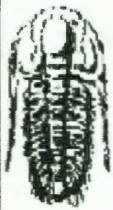
Voran "D-1"

Start Date: 2001.03.16 @ 00:01:00

End Date: 2001.03.16 @ 05:40:00

Job Ticket #: 13991 DST #: 1

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Energies Co

155 N Market #710
Wichita KS

ATTN: Doug Davis

Voran "D-1"

23-29S-7W Kingman KS

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

End Date: 2001.03.16

Start Time: 00:01:11

End Time: 08:29:50

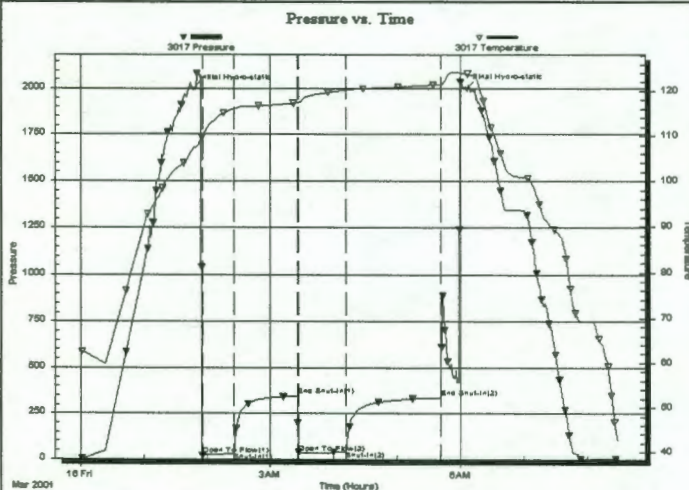
Capacity: 7000.00 psig

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	SII 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

Job Ticket: 13991

DST#: 1

ATTN: Doug Davis

Test Start: 2001.03.16 @ 00:01:00

Tool Information

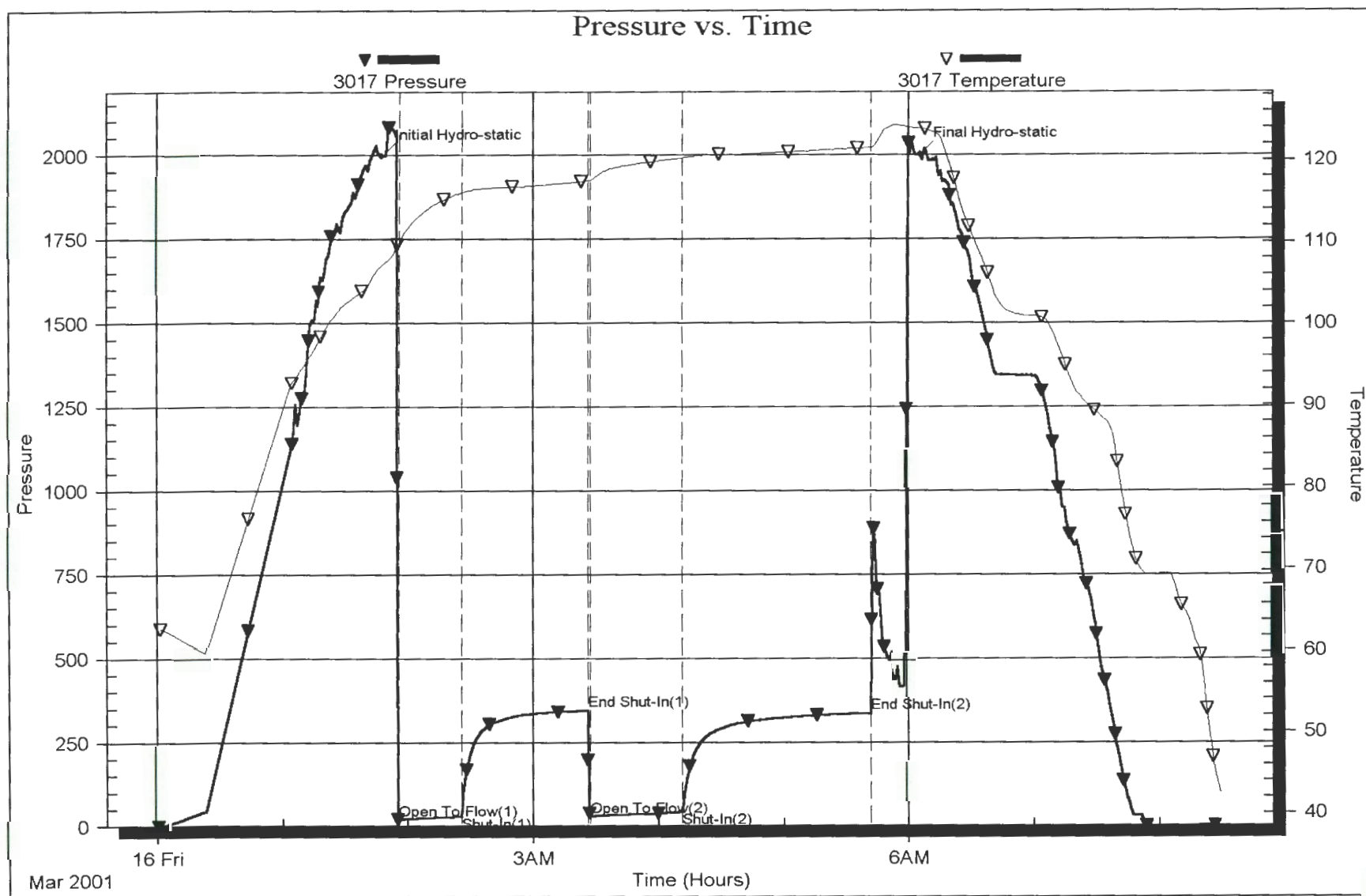
Drill Pipe:	Length: 4125.00 ft	Diameter: 3.80 inches	Volume: 57.86 bbl	Tool Weight: 1800.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 98000.00 lb
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





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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

American Energies Co

155 N Market #710
Wichita KS

ATTN: Doug Davis

Voran "D-1"

23-29S-7W Kingman KS

Job Ticket: 13992

DST#: 2

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

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

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

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

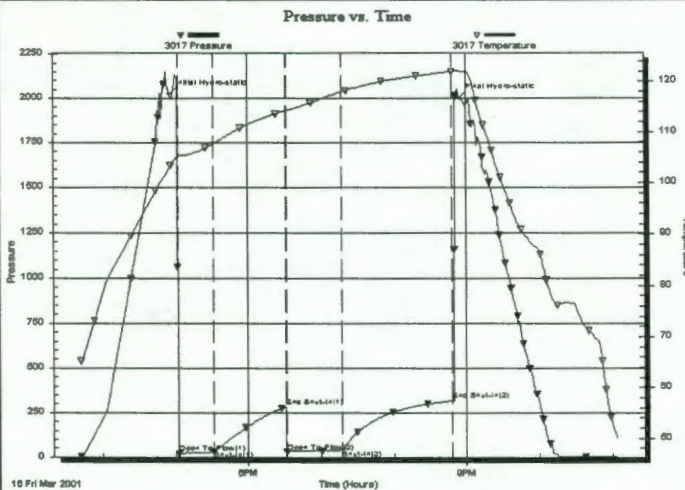
Capacity: 7000.00 psig

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 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	Sil 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

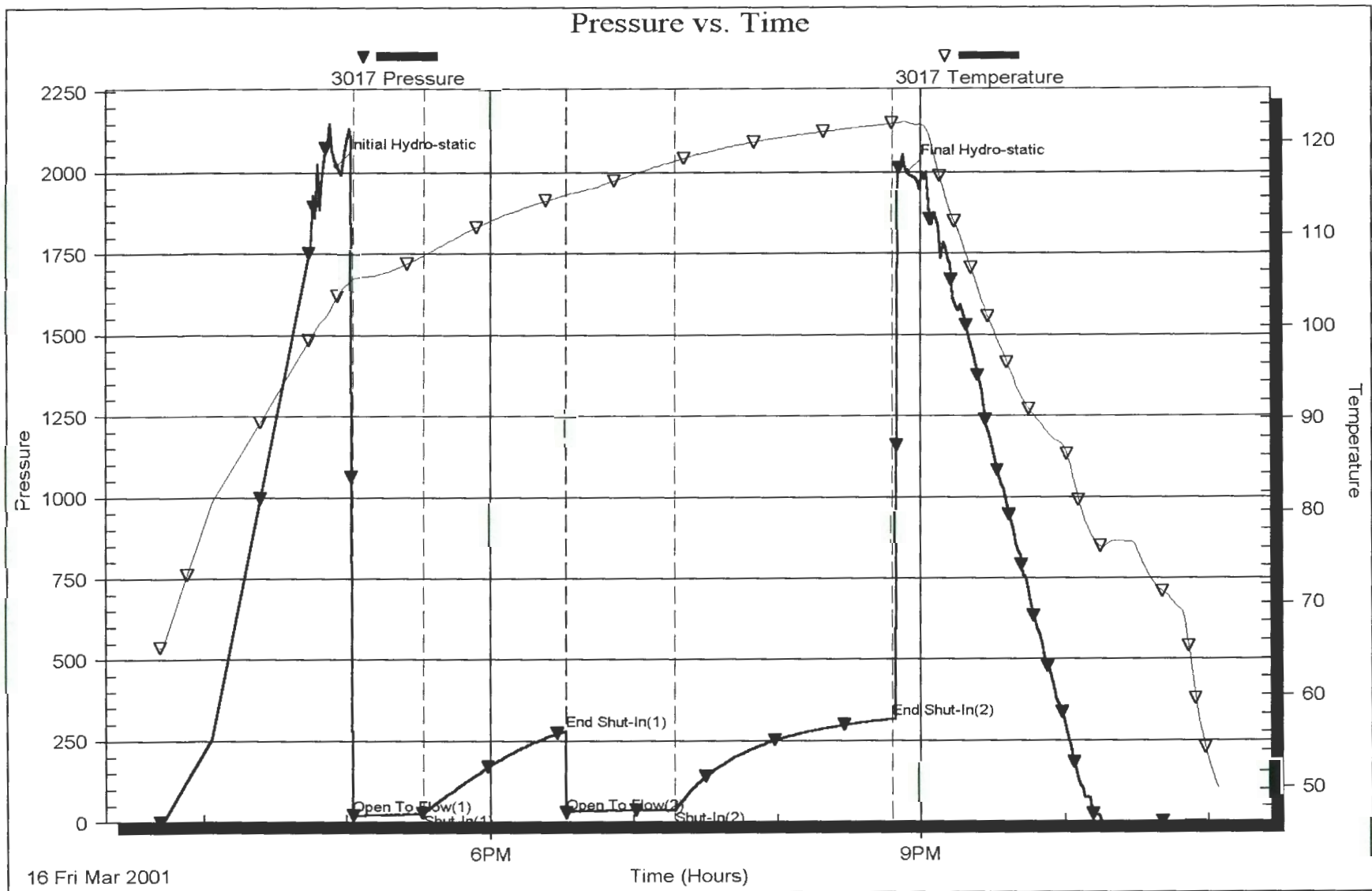


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

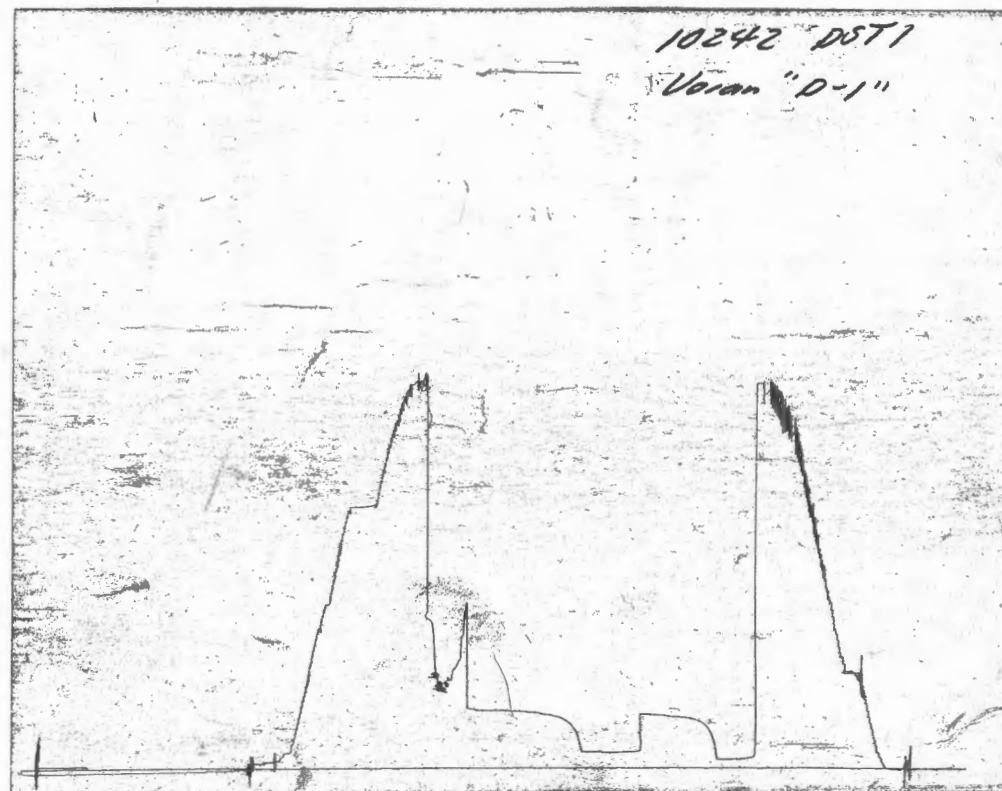
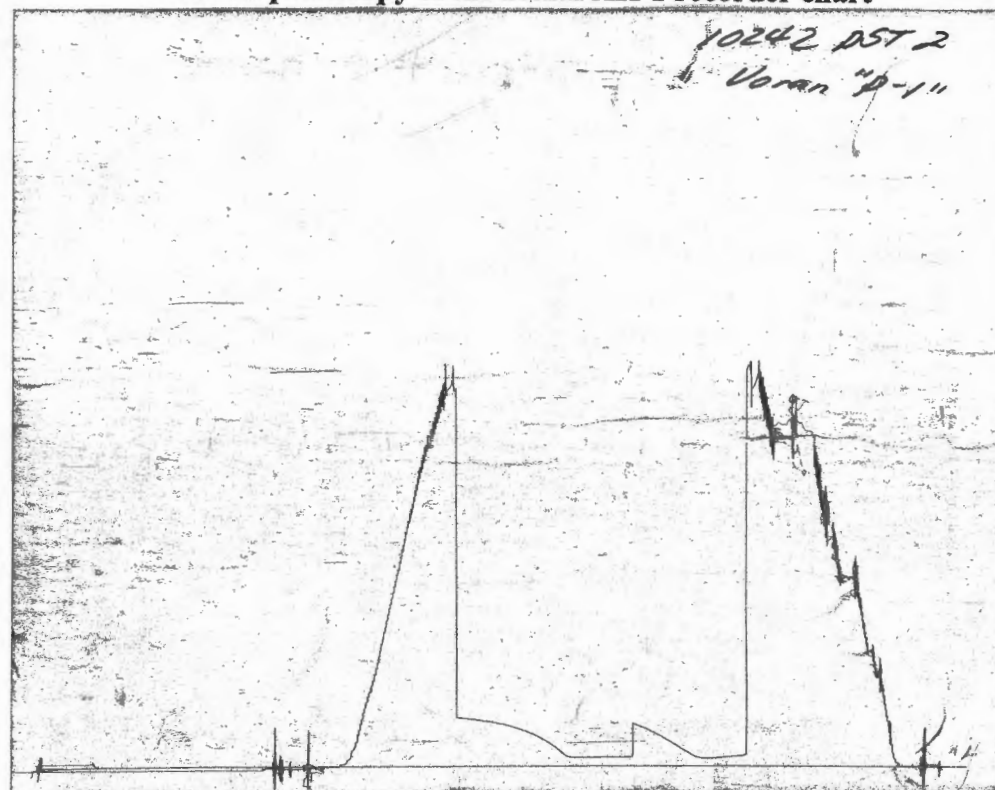


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13991

Test Ticket

Well Name & No.	<u>Varon "D-1"</u>	Test No.	<u>1</u>	Date	<u>3-16-2001</u>
Company	<u>American Energies Corp.</u>	Zone Tested	<u>Miss. Chert</u>		
Address	<u>Wichita KS.</u>	Elevation	<u>1565</u> KB <u>1560</u> GL		
Co. Rep / Geo.	<u>Doug Davis</u>	Cont.	<u>Pickrell Rig 10</u>	Est. Ft. of Pay	<u>19</u> Por. <u>20</u> %
Location: Sec.	<u>23</u>	Twp.	<u>29S.</u>	Rge.	<u>7W.</u> Co. <u>Kingman</u> State <u>KS.</u>
No. of Copies	<u>Req.</u>	Distribution Sheet (Y, N)	<u>N.</u>	Turnkey (Y, N)	<u>N.</u> Evaluation (Y, N) <u></u>

Interval Tested	<u>4142 - 4161</u>	Initial Str Wt./Lbs.	<u>62,000</u>	Unseated Str Wt./Lbs.	<u>62,000</u>
Anchor Length	<u>19'</u> Tool = <u>27'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>98,000</u>
Top Packer Depth	<u>4137</u>	Tool Weight	<u>1,800</u>		
Bottom Packer Depth	<u>4142</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	<u>4161</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>0</u>
Mud Wt.	<u>9.4</u> LCM <u>0</u> Vis. <u>50</u> WL <u>10.2</u>	Drill Pipe Size	<u>4 1/2 KH.</u>	Ft. Run	<u>4125</u> <u>10 up</u>

Blow Description Strong OBB in 2 min. cracked 2" slightly. T.F.P.
No blow-back. T.S.T.P.
Strong initial GTS in 32 min. "Tank to gauge" Gas burned F.F.P.
No blow-back. F.S.T.P.

Recovery — Total Feet	<u>6.5</u>	GIP	<u>4060</u>	Ft. in DC	<u>0</u>	Ft. in DP	<u>6.5</u>
Rec.	<u>6.5</u>	Feet Of	<u>5 1/2" Gas cut mud</u>	2 %gas	%oil	%water	<u>98</u> %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>121</u>	°F Gravity	<u>—</u>	°API D@	<u>—</u>	°F Corrected Gravity	<u>—</u> °API
RW	<u>—</u>	@	<u>—</u>	°F Chlorides	<u>—</u>	ppm Recovery	Chlorides <u>4,000</u> ppm System

(A) Initial Hydrostatic Mud	<u>2044</u>	AK-1	<u>1997</u>	Alpine	PSI	Recorder No.	<u>3017 "0001"</u>	T-On Location	<u>3-15-01 10:30 AM.</u>
(B) First Initial Flow Pressure	<u>39</u>		<u>18</u>		PSI	(depth)	<u>4144</u>	T-Started	<u>12:01 AM.</u>
(C) First Final Flow Pressure	<u>39</u>		<u>29</u>		PSI	Recorder No.	<u>10242</u>	T-Open	<u>1:55 AM.</u>
(D) Initial Shut-In Pressure	<u>322</u>		<u>345</u>		PSI	(depth)	<u>4158</u>	T-Pulled	<u>5:40 AM.</u>
(E) Second Initial Flow Pressure	<u>77</u>		<u>28</u>		PSI	Recorder No.	<u>—</u>	T-Out	<u>8:30 AM.</u>
(F) Second Final Flow Pressure	<u>77</u>		<u>42</u>		PSI	(depth)	<u>—</u>	T-Off Location	<u>—</u>
(G) Final Shut-in Pressure	<u>348</u>		<u>336</u>		PSI	Initial Opening	<u>30</u>	Test	<u>800</u>
(Q) Final Hydrostatic Mud	<u>2039</u>		<u>2001</u>		PSI	Initial Shut-in	<u>60</u>	Jars	<u>200</u>
						Final Flow	<u>45</u>	Safety Joint	<u>50</u>
						Final Shut-in	<u>90</u>	Straddle	<u>—</u>

31610001.017
TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Douglas V. Davis

Our Representative Yanny A. Salazar

Mileage 5.5
Other 146.30
TOTAL PRICE \$ 1285.00

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13992

Test Ticket

Well Name & No.	<u>Varan "D-1"</u>	Test No.	<u>2</u>	Date	<u>3-16-2001</u>
Company	<u>American Energies Corp.</u>	Zone Tested	<u>Miss. Dolomite</u>		
Address	<u>Wichita KS</u>	Elevation	<u>1565</u> KB <u>1560</u> GL		
Co. Rep / Geo.	<u>Doug Davis</u>	Cont.	<u>Pickrell Rig 10</u>	Est. Ft. of Pay	<u>13</u> Por. <u>15</u> %
Location: Sec.	<u>23</u>	Twp.	<u>29S</u>	Rge.	<u>7W</u> Co. <u>Kingman</u> State <u>KS</u>
No. of Copies	<u>Rep</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u></u>

Interval Tested	<u>4172 - 4185</u>	Initial Str Wt./Lbs.	<u>66,000</u>	Unseated Str Wt./Lbs.	<u>66,000</u>
Anchor Length	<u>13'</u> Tool = <u>27'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>14,000</u>
Top Packer Depth	<u>4167</u>	Tool Weight	<u>1,800</u>		
Bottom Packer Depth	<u>4172</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	<u>4185</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>90</u>
Mud Wt.	<u>9.3</u> LCM <u>0</u> Vis. <u>51</u> WL <u>10.8</u>	Drill Pipe Size	<u>4 1/2 xH</u>	Ft. Run	<u>4065</u> 10' up
Blow Description	<u>Work 1/2" built to 8 1/2" in bucket 30 min. I.F.P.</u>				
	<u>No blow-back. T.S.T.P.</u>				
	<u>For 4" built to string OBB in 20 min. E.F.P.</u>				
	<u>No blow-back E.S.T.P.</u>				

Recovery — Total Feet	<u>62</u>	GIP	<u>188</u>	Ft. in DC	<u>62</u>	Ft. in DP	<u>0</u>
Rec.	<u>62</u>	Feet Of	<u>51.1 conc. cut mud w/ 100 ppm</u>	%gas	<u>3</u>	%oil	<u>97</u>
Rec.		Feet Of	<u>0.1</u>	%gas		%oil	
Rec.		Feet Of		%gas		%oil	
Rec.		Feet Of		%gas		%oil	
Rec.		Feet Of		%gas		%oil	
BHT	<u>121</u>	°F Gravity	<u>—</u>	°API D@	<u>—</u>	°F Corrected Gravity	<u>—</u>
RW	<u>—</u>	@	<u>—</u>	°F Chlorides	<u>—</u>	ppm Recovery	<u>6,000</u>

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>2058</u>	<u>2021</u>	PSI Recorder No.	<u>3017 "15:41" T-On Location 2:30 P.M.</u>
(B) First Initial Flow Pressure	<u>28</u>	<u>21</u>	PSI (depth)	<u>4174</u> T-Started <u>3:41 P.M.</u>
(C) First Final Flow Pressure	<u>28</u>	<u>29</u>	PSI Recorder No.	<u>10242</u> T-Open <u>5:00 P.M.</u>
(D) Initial Shut-In Pressure	<u>240</u>	<u>281</u>	PSI (depth)	<u>4182</u> T-Pulled <u>8:45 P.M.</u>
(E) Second Initial Flow Pressure	<u>28</u>	<u>28</u>	PSI Recorder No.	<u>—</u> T-Out <u>11:00 P.M.</u>
(F) Second Final Flow Pressure	<u>28</u>	<u>38</u>	PSI (depth)	<u>—</u> T-Off Location <u>—</u>
(G) Final Shut-in Pressure	<u>264</u>	<u>317</u>	PSI Initial Opening	<u>30</u> Test <u>800</u> ✓
(Q) Final Hydrostatic Mud	<u>2044</u>	<u>2001</u>	PSI Initial Shut-in	<u>60</u> Jars <u>200</u> ✓

Final Flow	<u>45</u>	Safety Joint	<u>50</u> ✓
Final Shut-in	<u>90</u>	Straddle	<u>—</u>

31611541.017
TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Douglas V Davis

Our Representative Yancy S. Delaney

Circ. Sub	<u>1</u>
Sampler	<u>—</u>
Extra Packer	<u>—</u>
Elec. Rec.	<u>150</u> ✓
Mileage	<u>55</u> ✓
Other	<u>—</u>
TOTAL PRICE \$	<u>1253.00</u>