

DRILL STEM TEST REPORT

Prepared For: ^{cla} Cal-Mar Oil

P.O. Box 1197
Hays KS 67601

ATTN: Cal-Mar Oil

31-5-36 Rawlins KS

Briney #6

Start Date: 2001.07.14 @ 16:18:04

End Date: 2001.07.15 @ 00:07:58

Job Ticket #: 13742 DST #: 1

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



**TRILOBITE
TESTING, INC.**

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Cal-Mar Oil
P.O. Box 1197
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ATTN: Cal-Mar Oil

Briney #6

31-5-36 Rawlins KS

Job Ticket: 13742

DST#: 1

Test Start: 2001.07.14 @ 16:18:04

GENERAL INFORMATION:

Formation: **L KC (H-J)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:02:59

Time Test Ended: 00:07:58

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 15

Interval: **4395.00 ft (KB) To 4486.00 ft (KB) (TVD)**

Total Depth: 4486.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3417.00 ft (KB)

3412.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **2346**

Inside

Press@RunDepth: 423.43 psig @ 4396.00 ft (KB)

Start Date: 2001.07.14

End Date:

2001.07.15

Start Time: 16:18:04

End Time:

00:07:58

Capacity: 7000.00 psig

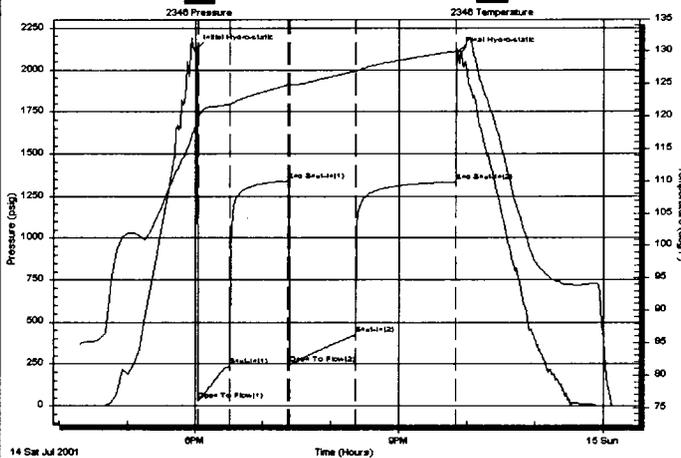
Last Calib.: 2001.01.19

Time On Btm: 2001.07.14 @ 18:00:59

Time Off Btm: 2001.07.14 @ 21:51:59

TEST COMMENT: B.O.B. in 17 min.
no return
B.O.B. in 23 min.
no return

Pressure vs. Time



PRESSURE SUMMARY

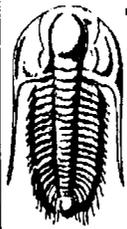
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.40	119.12	Initial Hydro-static
2	32.26	120.08	Open To Flow (1)
30	238.18	121.94	Shut-in(1)
81	1340.68	124.85	End Shut-in(1)
83	244.87	124.91	Open To Flow (2)
141	423.43	126.95	Shut-in(2)
229	1335.29	130.04	End Shut-in(2)
231	2106.02	130.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	w ater 100%w ater	4.08
180.00	mud cut w ater 20%mud 80%w ater	2.52

Gas Rates

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



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TOOL DIAGRAM

Cal-Mar Oil
P.O. Box 1197
Hays KS 67601
ATTN: Cal-Mar Oil

Briney #6
31-5-36 Rawlins KS
Job Ticket: 13742 DST#: 1
Test Start: 2001.07.14 @ 16:18:04

Tool Information

Drill Pipe:	Length: 3919.00 ft	Diameter: 3.80 inches	Volume: 54.97 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 476.00 ft	Diameter: 2.25 inches	Volume: 2.34 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 57.31 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4395.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	111.00 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			4376.00	
S.I. Tool	5.00			4381.00	
HMV	5.00			4386.00	
Packer	5.00			4391.00	20.00 Bottom Of Top Packer
Packer	4.00			4395.00	
Stubb	1.00			4396.00	
Recorder	0.00	2346	Inside	4396.00	
Perforations	20.00	24174		4416.00	
C.O. Sub	1.00			4417.00	
drillpipe	63.00			4480.00	
C.O. Sub	1.00			4481.00	
Recorder	0.00	11058	Outside	4481.00	
Bullnose	5.00			4486.00	91.00 Bottom Packers & Anchor

Total Tool Length: 111.00



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FLUID SUMMARY

Cal-Mar Oil
P.O. Box 1197
Hays KS 67601

ATTN: Cal-Mar Oil

Briney #6

31-5-36 Rawlins KS

Job Ticket: 13742

DST#: 1

Test Start: 2001.07.14 @ 16:18:04

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.60 in³

Resistivity: 0.00 ohm.m

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
600.00	w ater 100%w ater	4.080
180.00	mud cut w ater 20%mud 80%w ater	2.525

Total Length: 780.00 ft Total Volume: 6.605 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

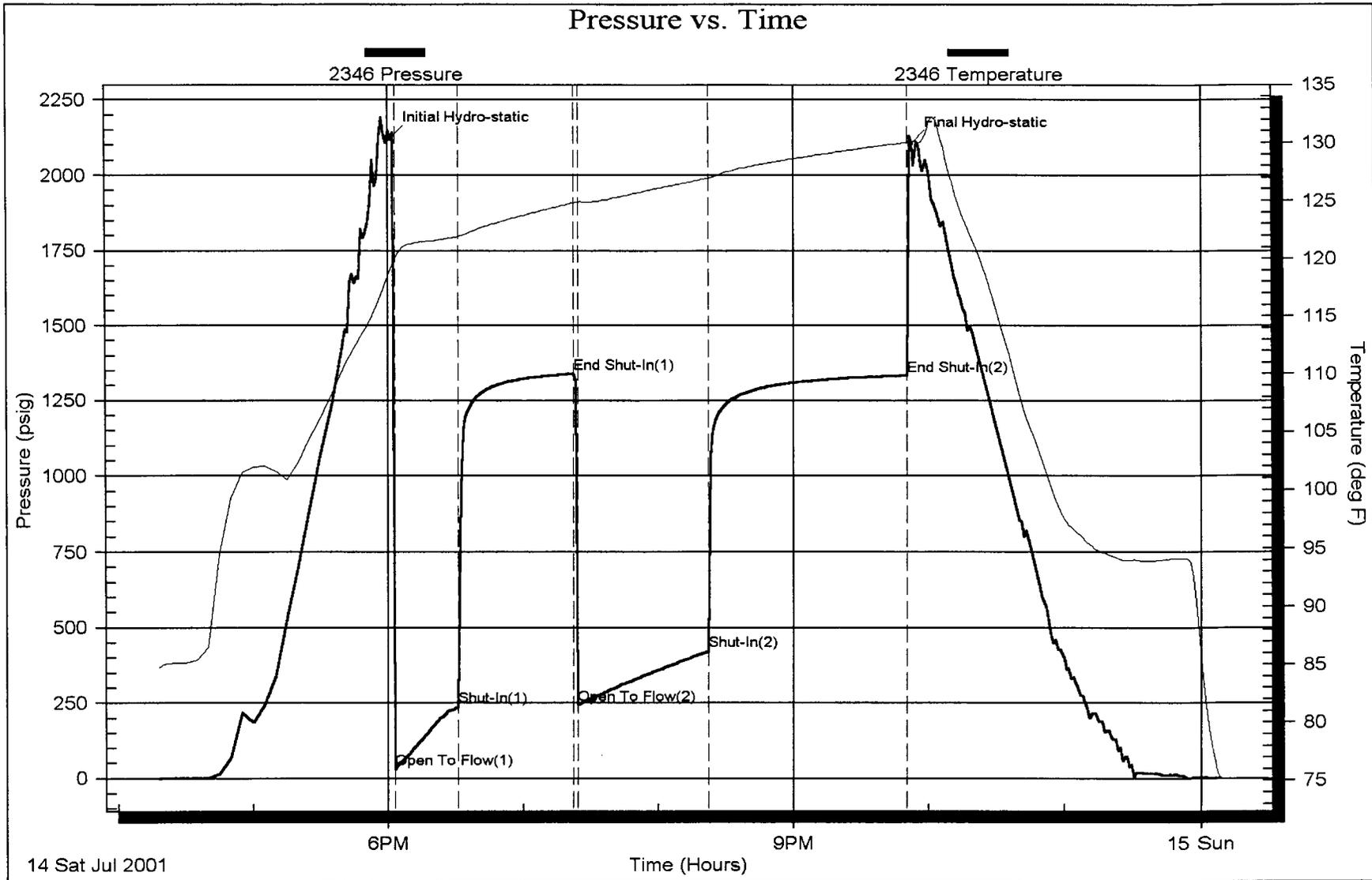
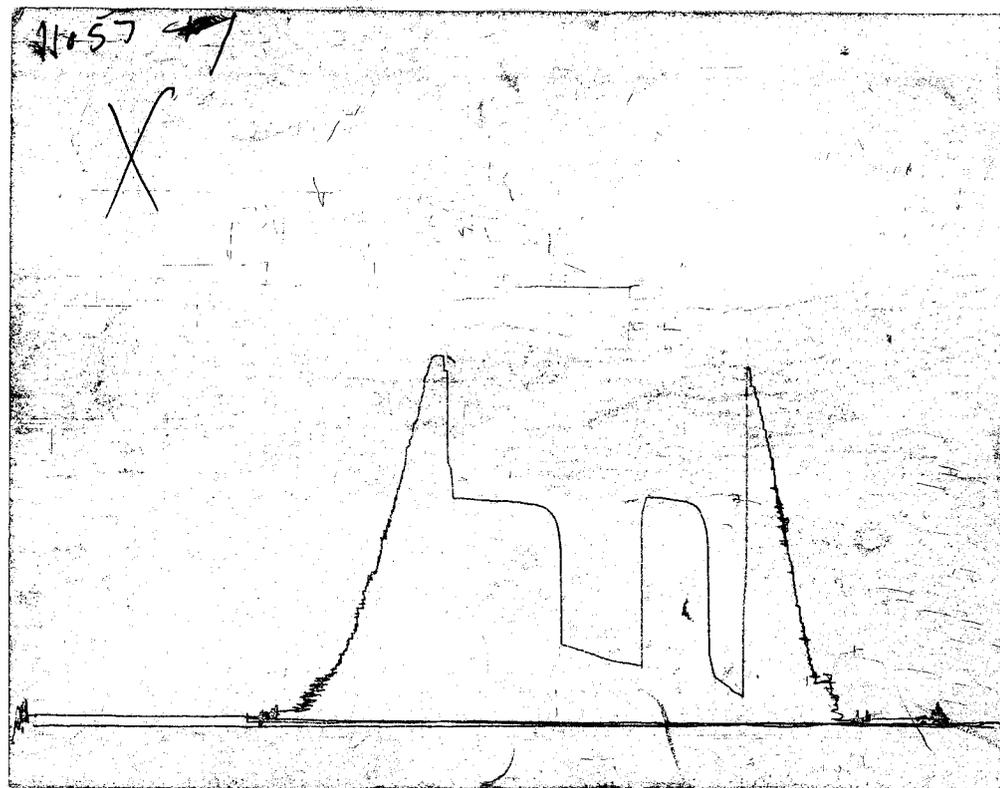


CHART PAGE

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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13742

Test Ticket

Well Name & No. <u>Bronx #6</u>	Test No. <u>#1</u>	Date <u>7-14-01</u>
Company <u>Ac-Mar Oil</u>	Zone Tested <u>LKC H-5</u>	
Address <u>P.O. Box 1197 Hays KS 67601</u>	Elevation <u>3417</u> KB <u>3412</u> GL	
Co. Rep / Geo. <u>Randy Kilian</u>	Cont. <u>Murphy #3</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>31</u>	Twp. <u>5S</u>	Rge. <u>36W</u> Co. <u>Rawlins</u> State <u>KS</u>
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>4395'</u>	<u>4486'</u>	Initial Str Wt./Lbs. <u>52,000</u>	Unseated Str Wt./Lbs. <u>55,000</u>
Anchor Length <u> </u>	<u>91'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>70,000</u>
Top Packer Depth <u> </u>	<u>4390'</u>	Tool Weight <u>1,500</u>	
Bottom Packer Depth <u> </u>	<u>4395'</u>	Hole Size — <u>7 7/8"</u> ✓	Rubber Size — <u>6 3/4"</u> ✓
Total Depth <u> </u>	<u>4486'</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>476</u>
Mud Wt. <u>8.9</u> LCM <u>-0-</u> Vis. <u>52</u> WL <u>7.6</u>		Drill Pipe Size <u>4 1/2 X 14</u>	Ft. Run <u>3982'</u>
Blow Description <u>1/2" in @ open, B.O.B in 17 min.</u>			

No return
Surface blow 1/2 min B.O.B in 23 min
No return

Recovery — Total Feet <u>780'</u>	GIP <u> </u>	Ft. in DC <u>476</u>	Ft. in DP <u>304'</u>
Rec. <u>180</u> Feet Of <u>m c w</u>	%gas <u> </u>	%oil <u>80</u>	%water <u>20</u> %mud <u> </u>
Rec. <u>600'</u> Feet Of <u>water</u>	%gas <u> </u>	%oil <u>100</u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
BHT <u>130°</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u>.25</u> @ <u>74°</u> °F	Chlorides <u>24,500</u> ppm	Recovery Chlorides <u>600</u> ppm	System <u> </u>

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2072</u>	<u>2122</u>		<u>2346</u>	<u>14:45 pm</u>
(B) First Initial Flow Pressure	<u>157</u>	<u>32</u>	PSI	(depth) <u>4396'</u>	T-Started <u>16:15 p.m.</u>
(C) First Final Flow Pressure	<u>257</u>	<u>238</u>	PSI	Recorder No. <u>11057</u>	T-Open <u>17:55 p.m.</u>
(D) Initial Shut-In Pressure	<u>1320</u>	<u>1340</u>	PSI	(depth) <u>4481'</u>	T-Pulled <u>21:40 P.m.</u>
(E) Second Initial Flow Pressure	<u>325</u>	<u>244</u>	PSI	Recorder No. <u> </u>	T-Out <u>12:15 A.M.</u>
(F) Second Final Flow Pressure	<u>459</u>	<u>423</u>	PSI	(depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>1309</u>	<u>1335</u>	PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>800</u>
(Q) Final Hydrostatic Mud	<u>2061</u>	<u>2106</u>	PSI	Initial Shut-in <u>45</u>	Jars <u> </u>
				Final Flow <u>60</u>	Safety Joint <u> </u>
				Final Shut-in <u>70</u>	Straddle <u> </u>
					Circ. Sub <u>x n/c</u>
					Sampler <u> </u>
					Extra Packer <u> </u>
					Elec. Rec. <u>x</u> <u>150</u>
					Mileage <u>105</u> <u>1 way</u>
					Other <u> </u>
					TOTAL PRICE \$ <u>1055</u>

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Approved By _____
 Our Representative Shane M. Boyd

T-On Location 14:45 pm
 T-Started 16:15 p.m.
 T-Open 17:55 p.m.
 T-Pulled 21:40 P.m.
 T-Out 12:15 A.M.
 T-Off Location
 Test X 800
 Jars
 Safety Joint
 Straddle
 Circ. Sub x n/c
 Sampler
 Extra Packer
 Elec. Rec. x 150
 Mileage 105 1 way
 Other
 TOTAL PRICE \$ 1055