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**TRILOBITE
TESTING, INC.**

KCC
JAN 14 2003
CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **McCoy Petl.Corp.**

P.O.Box 780208
Wichita Ks. 67278

ATTN: Corey Baker

11-30s-9w Kingman Ks

Schwartz T#2-11

Start Date: 2002.10.14 @ 03:12:53

End Date: 2002.10.14 @ 11:36:08

Job Ticket #: 16364 DST #: 1

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

McCoy Petl.Corp. Schwartz T#2-11 11-30s-9w Kingman Ks DST # 1 Miss. 2002.10.14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petr. Corp.

Schwartz T#2-11

P.O.Box 780208
Wichita Ks. 67278

11-30s-9w Kingman Ks

Job Ticket: 16364

DST#: 1

ATTN: Corey Baker

Test Start: 2002.10.14 @ 03:12:53

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 05:21:38
Time Test Ended: 11:36:08

KCC

JAN 14 2003

Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 23

Interval: **4214.00 ft (KB) To 4230.00 ft (KB) (TVD)**
Total Depth: **4230.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor**

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Reference Elevations: **1631.00 ft (KB)**
1622.00 ft (CF)
KB to GR/CF: **9.00 ft**

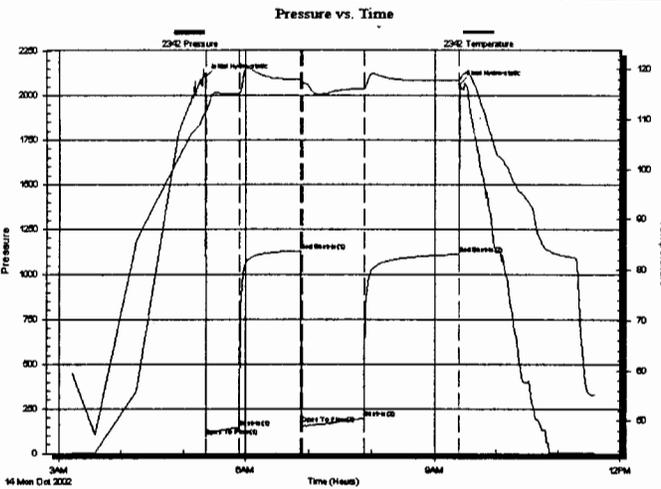
Serial #: 2342

Inside

Press@RunDepth: **198.23 psig @ 4215.00 ft (KB)**
Start Date: **2002.10.14** End Date: **2002.10.14**
Start Time: **03:12:54** End Time: **11:36:08**

Capacity: **7000.00 psig**
Last Calib.: **2002.10.14**
Time On Btmr: **2002.10.14 @ 05:20:53**
Time Off Btmr: **2002.10.14 @ 09:23:53**

TEST COMMENT: **IF:Strong blow . B.O.B. in 10 secs. GTS in 3.5 mins. (see gas volume report)**
IS:No blow .
FF:Strong blow . (see gas volume report)
FSI:Weak blow . (1/2")



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.64	111.23	Initial Hydro-static
1	96.26	111.44	Open To Flow (1)
33	144.68	115.15	Shut-In(1)
92	1130.30	117.91	End Shut-In(1)
93	163.15	117.62	Open To Flow (2)
152	198.23	116.09	Shut-In(2)
243	1111.84	117.83	End Shut-In(2)
243	2063.86	117.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	SOCW 1%o 99%w Rw .08 ohms @ 61	1.22
120.00	OCMW 22%o 38%m 40%w	1.68
32.00	OCM 5%g 35%o 60%m	0.45

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petl. Corp.

Schwartz T#2-11

P.O.Box 780208
Wichita Ks. 67278

11-30s-9w Kingman Ks

Job Ticket: 16364

DST#: 1

ATTN: Corey Baker

Test Start: 2002.10.14 @ 03:12:53

Tool Information

Drill Pipe:	Length: 3963.00 ft	Diameter: 3.80 inches	Volume: 55.59 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 56.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4214.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	38.00 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			4193.00	
S.I. Tool	5.00			4198.00	
HMV	5.00			4203.00	
Safety Joint	2.00			4205.00	
Packer	4.00			4209.00	22.00 Bottom Of Top Packer
Packer	5.00			4214.00	
Stubb	1.00			4215.00	
Recorder	0.00	2342	Inside	4215.00	
Perforations	10.00			4225.00	
Recorder	0.00	13222	Outside	4225.00	
Bullnose	5.00			4230.00	16.00 Bottom Packers & Anchor

Total Tool Length: 38.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petl. Corp.

Schwartz T#2-11

P.O.Box 780208
Wichita Ks. 67278

11-30s-9w Kingman Ks

Job Ticket: 16364

DST#: 1

ATTN: Corey Baker

Test Start: 2002.10.14 @ 03:12:53

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	SOCW 1%o 99%w Rw .08 ohms @ 61 deg.	1.220
120.00	OCMW 22%o 38%m 40%w	1.683
32.00	OCM 5%g 35%o 60%m	0.449

Total Length: 400.00 ft Total Volume: 3.352 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1-mcCoy

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:

Serial #: 2342

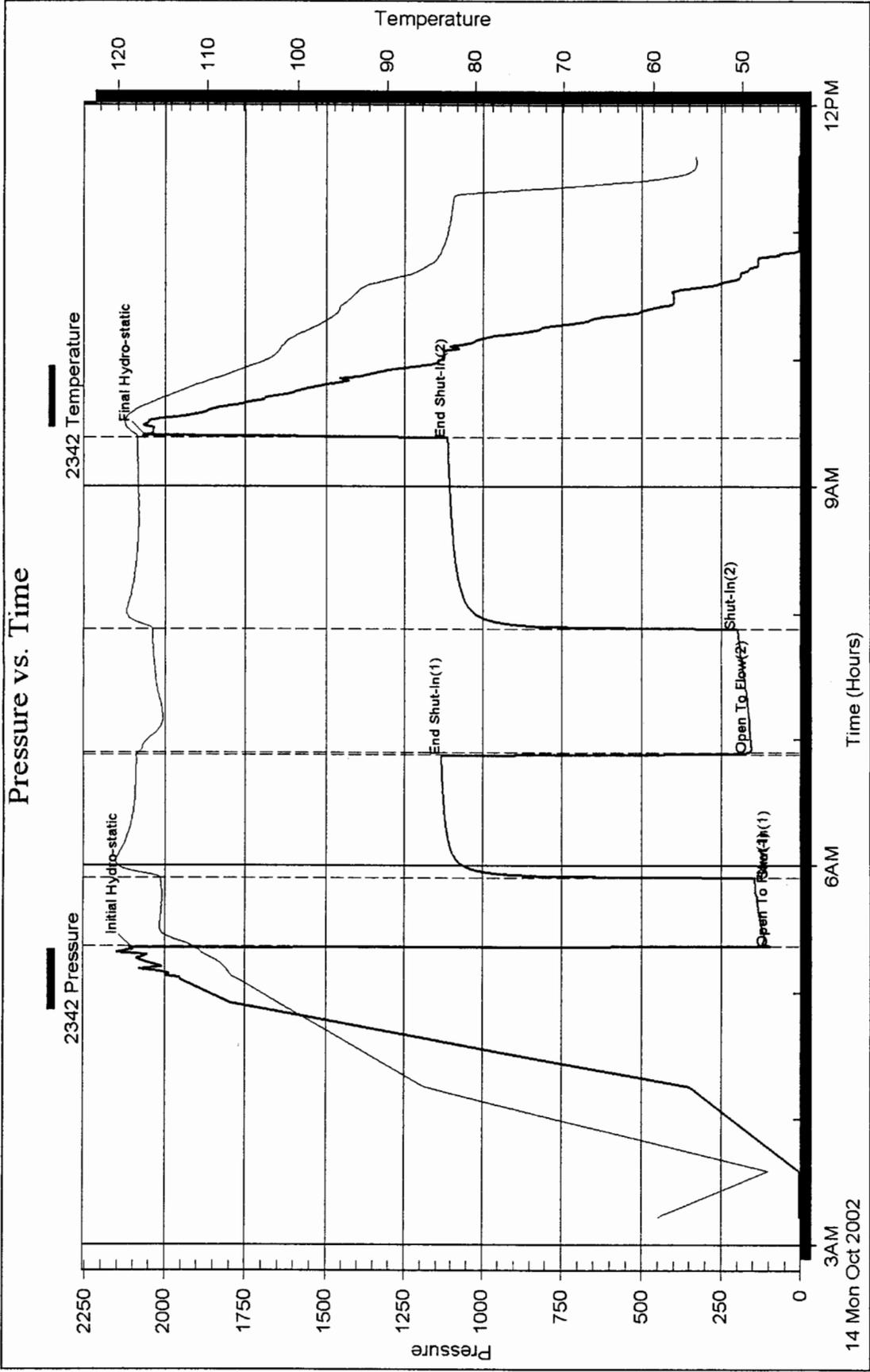
Inside

McCoy Petli, Corp.

11-30s-9w Kingman Ks

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16364

Test Ticket

Well Name & No. Schwartz T # 2-11 Test No. 1 Date 10-14-02
 Company McCoy Peth Corp. Zone Tested Miss
 Address P.O. Box 780208, Wichita Ks. 67278 Elevation 1631 KB 1622 GL
 Co. Rep / Geo. Cory Baker Cont. Studing Drly. #4 Est. Ft. of Pay Por. %
 Location: Sec. 11 Twp. 30S Rge. 9th Co. Kingman State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4214 - 4230' Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 56,000
 Anchor Length 16' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 63,000
 Top Packer Depth 4209' Tool Weight 2100#
 Bottom Packer Depth 4214' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4230' Wt. Pipe Run None Drill Collar Run 248'
 Mud Wt. 9.5 LCM 0 Vis. 50 WL 8.8cc. Drill Pipe Size 4 1/2" x 4.11. Ft. Run 3963'
 Blow Description IF: Strong below. B.O.B. in 10 secs. GTS in 3.5 mins. (see gas volume report) ISI: No below.
FF: Strong below. (see gas volume report) FSI: Weak below. (1/2")

Recovery — Total Feet	<u>400</u>	GIP	<u>yes</u>	Ft. in DC	<u>248</u>	Ft. in DP	<u>152</u>
Rec.	<u>32</u>	Feet Of	<u>OCM</u>	%gas	<u>35</u>	%oil	<u> </u>
Rec.	<u>120</u>	Feet Of	<u>OCM OCMW</u>	%gas	<u>22</u>	%oil	<u>40</u>
Rec.	<u>248</u>	Feet Of	<u>SOEW</u>	%gas	<u>1</u>	%oil	<u>99</u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u>0</u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
BHT	<u>118</u>	°F Gravity	<u>N/A</u>	°API @	<u> </u>	°F Corrected Gravity	<u>N/A</u>
RW	<u>.08</u>	@	<u>61</u>	°F Chlorides	<u>119,000</u>	ppm Recovery	<u>5,000</u>
				ppm System	<u> </u>		

(A) Initial Hydrostatic Mud	AK-1	Alpine	2128	PSI	Recorder No.	2342	T-On Location	0205
(B) First Initial Flow Pressure			96	PSI	(depth)	4215'	T-Started	0312
(C) First Final Flow Pressure			145	PSI	Recorder No.	13222	T-Open	0521
(D) Initial Shut-In Pressure			1130	PSI	(depth)	4225'	T-Pulled	0923
(E) Second Initial Flow Pressure			163	PSI	Recorder No.		T-Out	1136
(F) Second Final Flow Pressure			198	PSI	(depth)		T-Off Location	1230
(G) Final Shut-in Pressure			1112	PSI	Initial Opening	30	Test	<input checked="" type="checkbox"/> 800 ⁰⁰
(Q) Final Hydrostatic Mud			2064	PSI	Initial Shut-in	60	Jars	
					Final Flow	60	Safety Joint	<input checked="" type="checkbox"/> 50 ⁰⁰
					Final Shut-in	90	Straddle	
							Circ. Sub	
							Sampler	
							Extra Packer	
							Elec. Rec.	<input checked="" type="checkbox"/> 150 ⁰⁰
							Mileage	<input checked="" type="checkbox"/> 40 ⁰⁰
							Other	
							TOTAL PRICE \$	<input checked="" type="checkbox"/> 1040 ⁰⁰

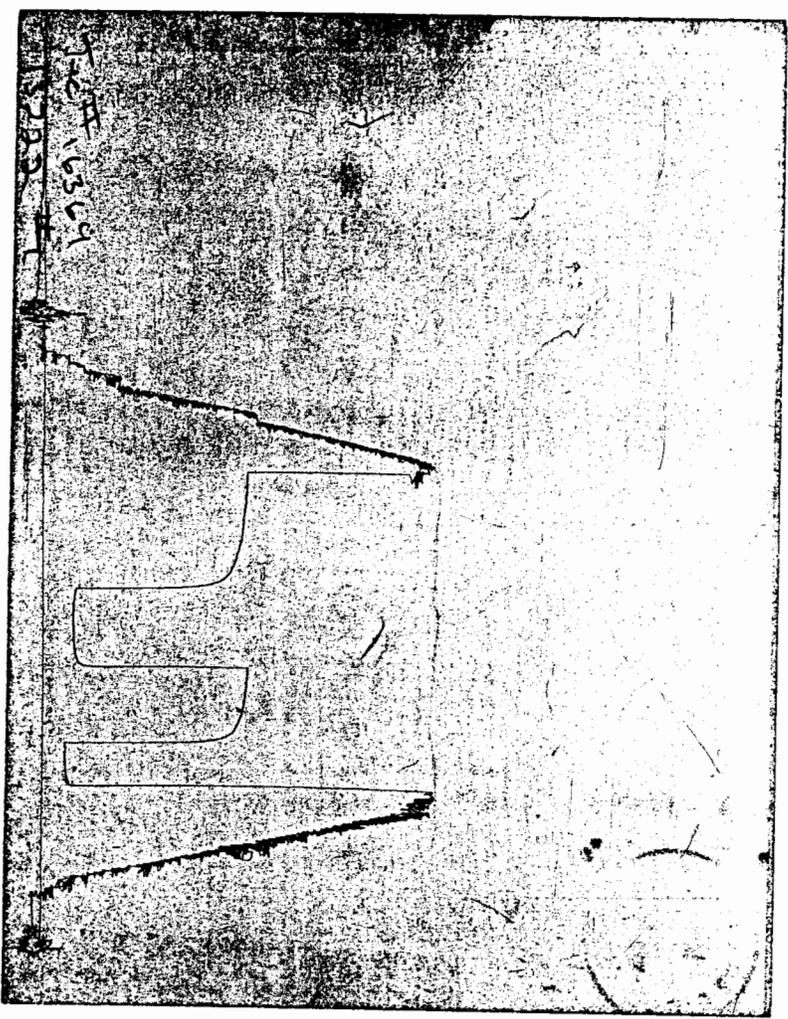
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE. OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By Cory N. Baker
 Our Representative Cory P. Poth

Extra Packer
 Elec. Rec. 150⁰⁰
 Mileage 40⁰⁰
 Other
 TOTAL PRICE \$ 1040⁰⁰

CHART PAGE

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





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RECEIVED
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KCC WICHITA

DRILL STEM TEST REPORT

Prepared For: **McCoy Petl.Corp.**

P.O.Box 780208
Wichita Ks. 67278

ATTN: Corey Baker

11-30s-9w Kingman Ks

Schwartz T#2-11

Start Date: 2002.10.14 @ 17:23:05

End Date: 2002.10.15 @ 01:14:35

Job Ticket #: 16365 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

McCoy Petr. Corp.

Schwartz T#2-11

P.O. Box 780208
Wichita Ks. 67278

11-30s-9w Kingman Ks

Job Ticket: 16365 DST#: 2

ATTN: Corey Baker

Test Start: 2002.10.14 @ 17:23:05

GENERAL INFORMATION:

Formation: Miss.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:05:20

Time Test Ended: 01:14:35

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: 4230.00 ft (KB) To 4245.00 ft (KB) (TVD)

Reference Elevations: 1631.00 ft (KB)

Total Depth: 4245.00 ft (KB) (TVD)

1622.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 2342

Inside

Press@RunDepth: 106.75 psig @ 4231.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2002.10.14

End Date:

2002.10.15

Last Calib.: 2002.10.15

Start Time: 17:23:06

End Time:

01:14:35

Time On Btrn: 2002.10.14 @ 18:55:05

Time Off Btrn: 2002.10.14 @ 23:10:05

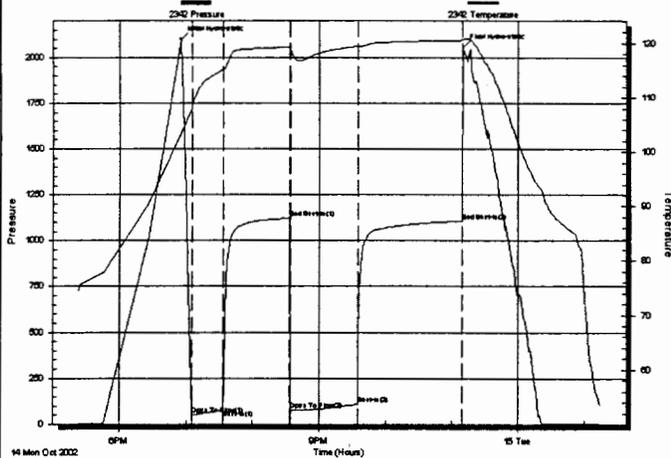
TEST COMMENT: F: Strong blow . B.O.B. in 10 secs. GTS in 6.5 mins. (see gas volume report)

IS: No blow.

FF: Strong blow . (see gas volume report)

FS: Weak blow . (1 - 2")

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2098.61	103.52	Initial Hydro-static
11	49.01	108.04	Open To Flow (1)
39	74.27	115.15	Shut-in(1)
99	1120.90	119.33	End Shut-in(1)
100	75.36	119.17	Open To Flow (2)
160	106.75	119.46	Shut-in(2)
255	1106.58	120.63	End Shut-in(2)
255	2057.15	120.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	SOCMW 2%o 13%m 85%w Rw .12 ohms 0.6114 deg	
125.00	OCMW 8%o 45%m 47%w	0.63
75.00	OCWM 20%o 23%w 57%m	1.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petl. Corp.

Schwartz T#2-11

P.O.Box 780208
Wichita Ks. 67278

11-30s-9w Kingman Ks

Job Ticket: 16365

DST#: 2

ATTN: Corey Baker

Test Start: 2002.10.14 @ 17:23:05

Tool Information

Drill Pipe:	Length: 3963.00 ft	Diameter: 3.80 inches	Volume: 55.59 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 56.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4230.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	37.00 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			4209.00	
S.I. Tool	5.00			4214.00	
HMV	5.00			4219.00	
Safety Joint	2.00			4221.00	
Packer	4.00			4225.00	22.00 Bottom Of Top Packer
Packer	5.00			4230.00	
Stubb	1.00			4231.00	
Recorder	0.00	2342	Inside	4231.00	
Perforations	9.00			4240.00	
Recorder	0.00	13222	Outside	4240.00	
Bullnose	5.00			4245.00	15.00 Bottom Packers & Anchor

Total Tool Length: 37.00



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TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petl. Corp.

Schwartz T#2-11

P.O.Box 780208
Wichita Ks. 67278

11-30s-9w Kingman Ks

Job Ticket: 16365

DST#: 2

ATTN: Corey Baker

Test Start: 2002.10.14 @ 17:23:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	SOCMW 2%o 13%m 85%w Rw .12 ohms @	0.615
125.00	OCMW 8%o 45%m 47%w	0.633
75.00	OCWM 20%o 23%w 57%m	1.052

Total Length: 325.00 ft

Total Volume: 2.300 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 2342

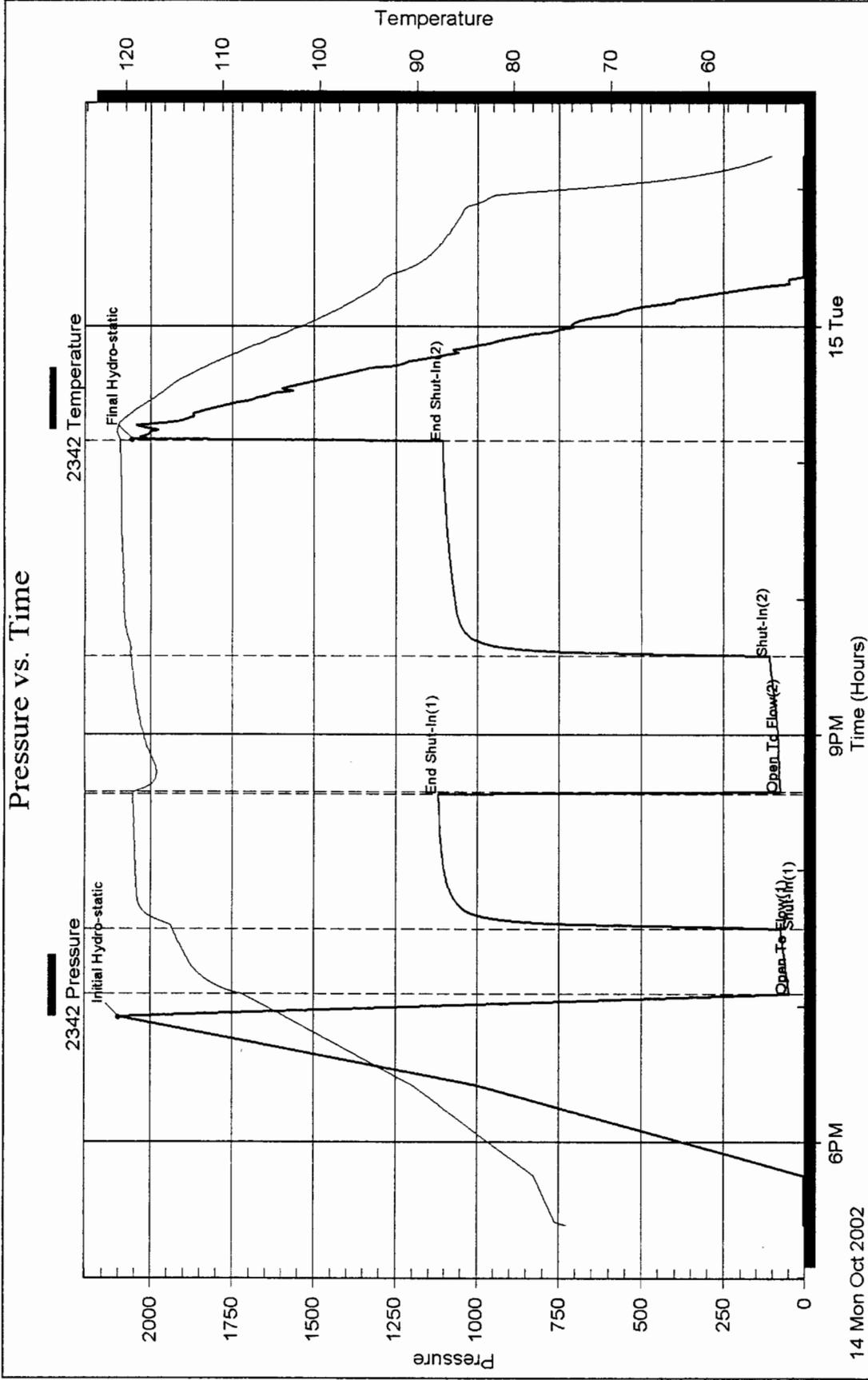
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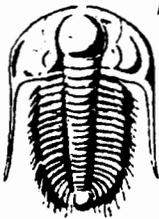
McCoy Petli, Corp.

11-30s-9w Kingman Ks

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16365

Test Ticket

Well Name & No. Schwartz T #2-11 Test No. 2 Date 10-14-02
 Company M. Coy Peth. Corp. Zone Tested Miss.
 Address P.O. Box 780208, Wichita Ks. 67278 Elevation 1631 KB 1622 GL
 Co. Rep / Geo. Cory Baker Cont. Starting Dlg. #4 Est. Ft. of Pay Por. %
 Location: Sec. 11 Twp. 30S Rge. 9W8 Co. Kingman State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) - Evaluation (Y, N)

Interval Tested 4230 - 4245' Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 55,000
 Anchor Length 15' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 73,000
 Top Packer Depth 4225' Tool Weight 2100 #
 Bottom Packer Depth 4230' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4245' Wt. Pipe Run None Drill Collar Run 248'
 Mud Wt. 9.3 LCM 0 Vis. 53 WL 10.4cc. Drill Pipe Size 4 1/2" x 4 Ft. Run 3963'

Blow Description IF: strong blow. B.O.B. in 10 secs. GTS in 6.5 mins.
(see gas volume report) FSI: No blow.
FF: strong blow. (see gas volume report) FSI: weak blow
(1-2")

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>325</u>	<u>yes</u>	<u>248</u>	<u>77</u>
Rec. <u>75</u> Feet Of <u>OCWM</u>		%gas <u>20</u> %oil <u>23</u> %water <u>57</u> %mud	
Rec. <u>125</u> Feet Of <u>OCMW</u>		%gas <u>8</u> %oil <u>47</u> %water <u>45</u> %mud	
Rec. <u>125</u> Feet Of <u>SOCMW</u>		%gas <u>2</u> %oil <u>85</u> %water <u>13</u> %mud	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud	

BHT 121 °F Gravity N/A °API @ °F Corrected Gravity N/A °API
 RW .12 @ 44 °F Chlorides 106,000 ppm Recovery Chlorides 6,000 ppm System

	AK-1	Alpine	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2099</u>	PSI	<u>2342</u>	<u>1650</u>
(B) First Initial Flow Pressure	<u>49</u>	PSI (depth)	<u>4231'</u>	<u>1723</u>
(C) First Final Flow Pressure	<u>74</u>	PSI	<u>13222</u>	<u>1905</u>
(D) Initial Shut-In Pressure	<u>1121</u>	PSI (depth)	<u>4240'</u>	<u>2306</u>
(E) Second Initial Flow Pressure	<u>75</u>	PSI	<u> </u>	<u>0114</u>
(F) Second Final Flow Pressure	<u>107</u>	PSI (depth)	<u> </u>	<u>0230</u>
(G) Final Shut-in Pressure	<u>1107</u>	PSI	<u>30</u>	<u>800°</u>
(Q) Final Hydrostatic Mud	<u>2010</u>	PSI	<u>60</u>	Jars <u> </u>

Final Flow 60 Safety Joint 50°
 Final Shut-in 1090 Straddle
 Circ. Sub
 Sampler

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Approved By Cory D. Baker
 Our Representative Cory P. Pate

Elec. Rec. 150.00
 Mileage 40.00
 Other
 TOTAL PRICE \$ 1040.00

CHART PAGE

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

