

ORIGINAL

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DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**

PO Box 87
Schoenchen KS 67667

ATTN: Jerry Green

14-16s-20w

Stull #1

Start Date: 2002.05.06 @ 14:04:34

End Date: 2002.05.06 @ 20:43:03

Job Ticket #: 16285 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

101892

ORIGINAL


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castle Resources Inc
PO Box 87
Schoenchen KS 67667
ATTN: Jerry Green

Stull #1
14-16s-20w
Job Ticket: 16285 **DST#: 1**
Test Start: 2002.05.06 @ 14:04:34

GENERAL INFORMATION:

Formation: **LKC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:59:03
Time Test Ended: 20:43:03

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16

Interval: **3515.00 ft (KB) To 3535.00 ft (KB) (TVD)**
Total Depth: 3535.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2142.00 ft (KB)
2137.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3024

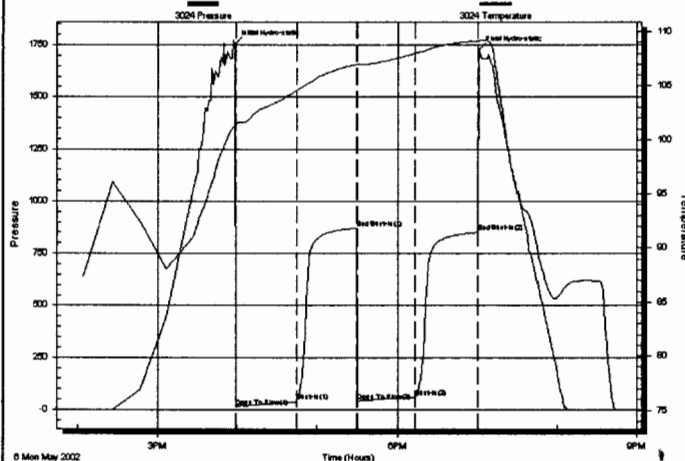
Inside

Press@RunDepth: 61.75 psig @ 3516.01 ft (KB)
Start Date: 2002.05.06 End Date: 2002.05.06
Start Time: 14:04:34 End Time: 20:43:03

Capacity: 7000.00 psig
Last Calib.: 2002.05.06
Time On Btm: 2002.05.06 @ 15:58:33
Time Off Btm: 2002.05.06 @ 19:01:03

TEST COMMENT: FFP-weak blow thru-out 1/4" to 3" blow
FFP-weak blow thru-out 1/2" to 2" blow
no blow on shut-in
times 45-45-45-45

Pressure vs. Time



PRESSURE SUMMARY

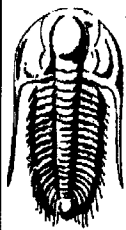
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.33	101.30	Initial Hydro-static
1	12.02	101.43	Open To Flow (1)
46	39.04	104.53	Shut-In (1)
91	870.41	106.97	End Shut-In (1)
92	41.26	106.99	Open To Flow (2)
135	61.75	107.97	Shut-In (2)
182	851.10	109.15	End Shut-In (2)
183	1726.07	109.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	clean oil	0.14
70.00	HO&GCM 5% gas 30% oil 65 % mud	0.50

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources Inc
PO Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Stull #1
14-16s-20w
Job Ticket: 16285 **DST#: 1**
Test Start: 2002.05.06 @ 14:04:34

Tool Information

Drill Pipe:	Length: 2922.00 ft	Diameter: 3.80 inches	Volume: 40.99 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 590.00 ft	Diameter: 2.70 inches	Volume: 4.18 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 45.17 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3515.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	41.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			3495.00	
S.I. Tool	5.00			3500.00	
HMV	5.00			3505.00	
Packer	5.00			3510.00	21.00 Bottom Of Top Packer
Packer	5.00			3515.00	
Stubb	1.00			3516.00	
Recorder	0.01	3024	Inside	3516.01	
Perforations	16.00			3532.01	
Recorder	0.01	11085	Outside	3532.02	
Bullnose	3.00			3535.02	20.02 Bottom Packers & Anchor
Total Tool Length:		41.02			


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources Inc
PO Box 87
Schoenchen KS 67667
ATTN: Jerry Green

Stull #1
14-16s-20w
Job Ticket: 16285 **DST#: 1**
Test Start: 2002.05.06 @ 14:04:34

Mud and Cushion Information

Mud Type: Invert	Cushion Type:	Oil API:	31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.92 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 12000.00 ppm			
Filter Cake: 2.00 inches			

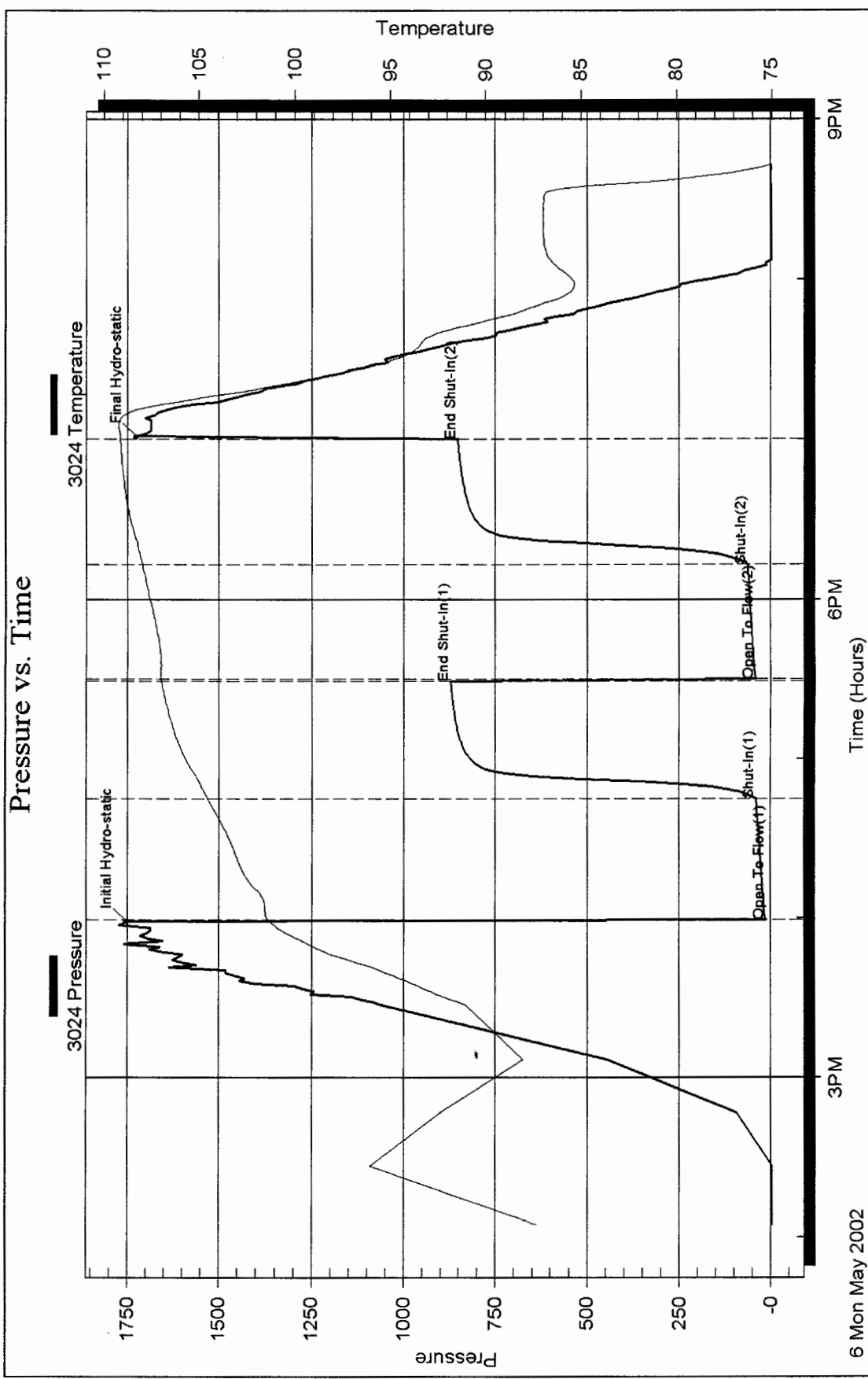
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	clean oil	0.142
70.00	HO&GCM 5%gas 30%oil 65 %mud	0.496

Total Length: 90.00 ft Total Volume: 0.638 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**

PO Box 87
Schoenchen KS 67667

ATTN: Jerry Green

14-16s-20w

Stull #1

Start Date: 2002.05.08 @ 06:01:15

End Date: 2002.05.08 @ 14:41:44

Job Ticket #: 16286 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

Castle Resources Inc

 PO Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Stull #1
14-16s-20w

Job Ticket: 16286

DST#: 2

Test Start: 2002.05.08 @ 06:01:15

GENERAL INFORMATION:

 Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:08:14

Time Test Ended: 14:41:44

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

 Interval: **3850.00 ft (KB) To 3872.00 ft (KB) (TVD)**

Total Depth: 3872.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2142.00 ft (KB)

2137.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3024
Inside

Press@RunDepth: 1010.72 psig @ 3851.01 ft (KB)

Start Date: 2002.05.08

End Date:

2002.05.08

Capacity: 7000.00 psig

Last Calib.: 2002.05.08

Start Time: 06:01:15

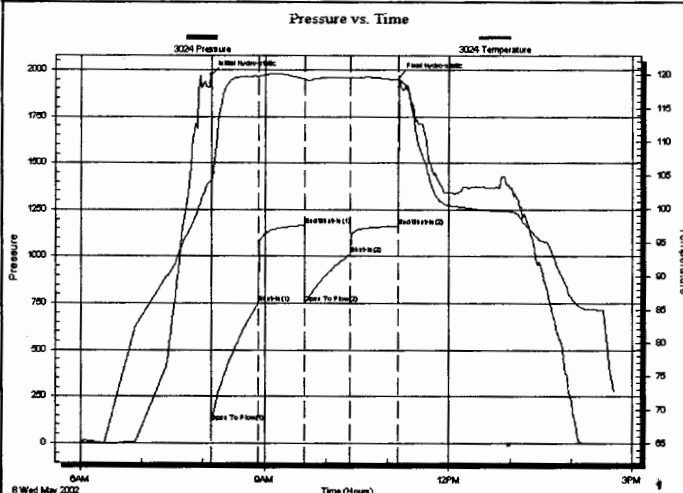
End Time:

14:41:44

Time On Btm: 2002.05.08 @ 08:07:44

Time Off Btm: 2002.05.08 @ 11:11:14

TEST COMMENT: IFP-weak to strong blow in 2 min
FFP-weak to strong blow in 2 min
weak blow back on shut-in
times 45-45-45-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.13	104.30	Initial Hydro-static
1	112.44	104.44	Open To Flow (1)
46	748.46	119.79	Shut-In(1)
91	1166.99	119.42	End Shut-In(1)
92	749.96	119.41	Open To Flow (2)
136	1010.72	119.55	Shut-In(2)
183	1164.39	119.24	End Shut-In(2)
184	1961.69	119.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MGO	0.85
2730.00	clean oil	35.03

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources Inc
PO Box 87
Schoenchen KS 67667
ATTN: Jerry Green

Stull #1
14-16s-20w
Job Ticket: 16286
DST#: 2
Test Start: 2002.05.08 @ 06:01:15

Tool Information

Drill Pipe:	Length: 3265.00 ft	Diameter: 3.80 inches	Volume: 45.80 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 590.00 ft	Diameter: 2.70 inches	Volume: 4.18 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 49.98 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3850.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.02 ft			
Tool Length:	43.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			3830.00	
S.I. Tool	5.00			3835.00	
HMV	5.00			3840.00	
Packer	5.00			3845.00	21.00 Bottom Of Top Packer
Packer	5.00			3850.00	
Stubb	1.00			3851.00	
Recorder	0.01	3024	Inside	3851.01	
Perforations	18.00			3869.01	
Recorder	0.01	11085	Outside	3869.02	
Bullnose	3.00			3872.02	22.02 Bottom Packers & Anchor
Total Tool Length:	43.02				


**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources Inc
PO Box 87
Schoenchen KS 67667
ATTN: Jerry Green

Stull #1
14-16s-20w
Job Ticket: 16286 **DST#: 2**
Test Start: 2002.05.08 @ 06:01:15

Mud and Cushion Information

Mud Type:	Invert	Cushion Type:		Oil API:	43 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.95 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	18000.00 ppm				
Filter Cake:	2.00 inches				

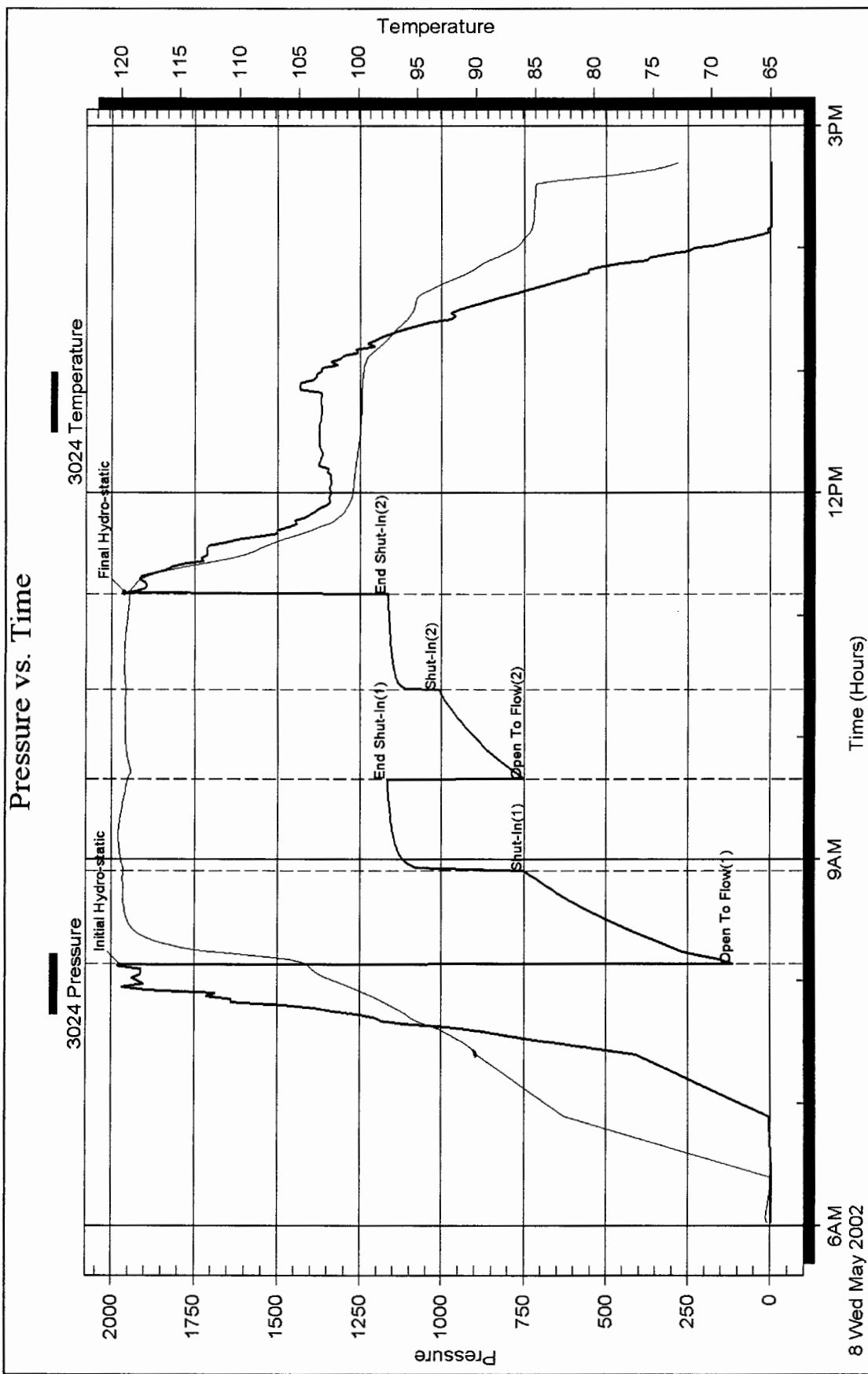
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MGO	0.850
2730.00	clean oil	35.030

Total Length: 2850.00 ft Total Volume: 35.880 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16285

Test Ticket

Well Name & No. <u>STULL #1</u>	Test No. <u>1</u>	Date <u>5-6-02</u>
Company <u>CASTLE Resources, Inc</u>	Zone Tested <u>LKC "B"</u>	
Address <u>P.O. Box 87 Schoenchen, Ks 67667</u>	Elevation <u>2142</u> KB <u>2132</u> GL	
Co. Rep / Geo. <u>JERRY GREEN</u>	Cont. <u>A+A DRIG rig 1</u>	Est. Ft. of Pay <u>-</u> Por. <u>-</u> %
Location: Sec. <u>14</u> Twp. <u>16S</u> Rge. <u>20W</u>	Co. <u>Rush</u>	State <u>Ks</u>
No. of Copies <u>Reg</u> Distribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u>	Evaluation (Y, N) <u>-</u>

Interval Tested <u>3515-3535</u>	Initial Str Wt./Lbs. <u>42000</u>	Unseated Str Wt./Lbs. <u>43000</u>
Anchor Length <u>20</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>55000</u>
Top Packer Depth <u>3510</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3515</u>	Hole Size — 7 7/8" <u>405</u>	Rubber Size — 6 3/4" <u>405</u>
Total Depth <u>3535</u>	Wt. Pipe Run <u>590</u>	Drill Collar Run <u>-</u>
Mud Wt. <u>9.3</u> LCM <u>TR</u> Vis. <u>54</u> WL <u>12</u>	Drill Pipe Size <u>4 1/2 FH</u>	Ft. Run <u>2922</u>
Blow Description <u>IFP - WEAK Blow throughout 1/4" To 3" Blow</u>		
<u>FFP - WEAK Blow throughout 1/2" To 2" Blow</u>		
<u>No Blow on shut-in</u>		

Recovery — Total Feet <u>90</u>	GIP <u>450</u>	Ft. in DP <u>90</u>	Ft. in DP <u>-</u>
Rec. <u>20</u>	Feet Of <u>CLEAN OIL</u>	%gas	%oil
Rec. <u>20</u>	Feet Of <u>HO+GCM</u>	%gas <u>30</u>	%oil <u>65</u>
Rec. <u>-</u>	Feet Of <u>-</u>	%gas	%oil
Rec. <u>-</u>	Feet Of <u>-</u>	%gas	%oil
Rec. <u>-</u>	Feet Of <u>-</u>	%gas	%oil
BHT <u>109</u>	°F Gravity <u>32</u>	°API D@ <u>70</u>	°F Corrected Gravity <u>31</u>
RW <u>-</u>	°F Chlorides <u>-</u>	ppm Recovery	Chlorides <u>12000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1716</u>	Alpina <u>3024</u>	PSI Recorder No. <u>1315</u>	T-On Location <u>1315</u>
(B) First Initial Flow Pressure	<u>12</u>	PSI (depth) <u>3516</u>	T-Started <u>1404</u>	
(C) First Final Flow Pressure	<u>34</u>	PSI Recorder No. <u>11085</u>	T-Open <u>1555</u>	
(D) Initial Shut-In Pressure	<u>870</u>	PSI (depth) <u>3532</u>	T-Pulled <u>1855</u>	
(E) Second Initial Flow Pressure	<u>41</u>	PSI Recorder No. <u>-</u>	T-Out <u>2030</u>	
(F) Second Final Flow Pressure	<u>66</u>	PSI (depth) <u>-</u>	T-Off Location <u>2100</u>	
(G) Final Shut-in Pressure	<u>851</u>	PSI Initial Opening <u>45</u>	Test <u>700</u>	
(Q) Final Hydrostatic Mud	<u>1684</u>	PSI Initial Shut-in <u>45</u>	Jars <u>-</u>	
		Final Flow <u>45</u>	Safety Joint <u>-</u>	
		Final Shut-in <u>45</u>	Straddle <u>-</u>	

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.

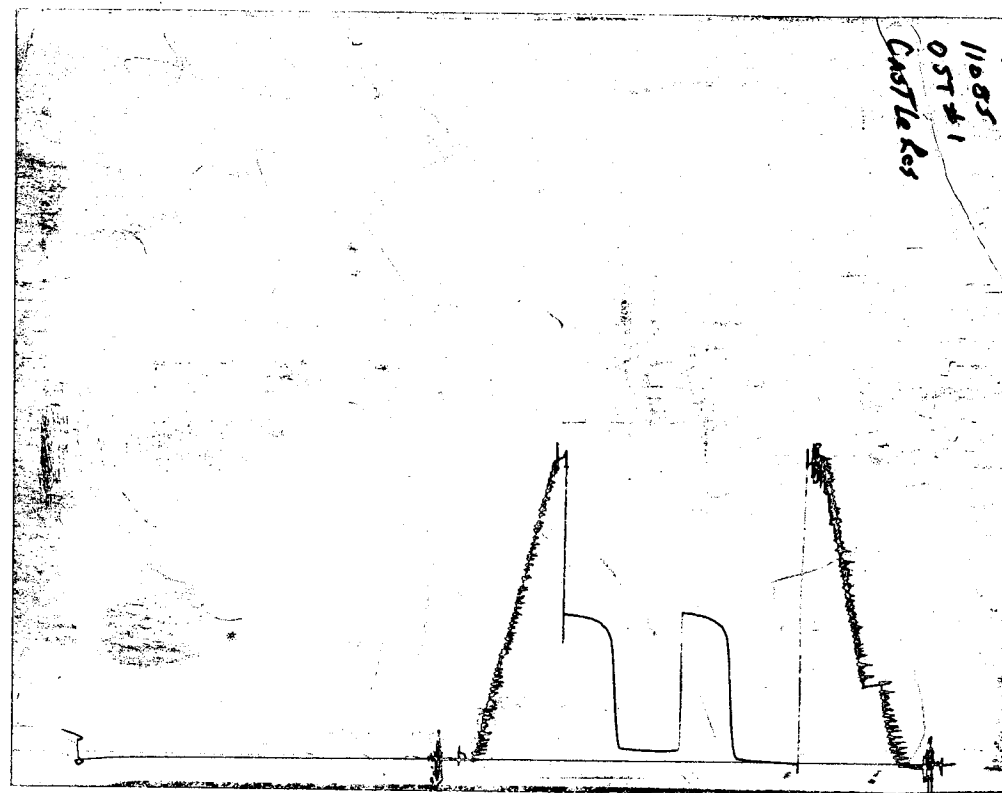
Approved By -

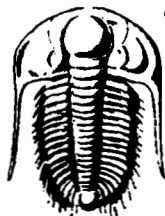
Our Representative RAY SCHWAGER Thank You

Extra Packer -
Elec. Rec 150
Mileage 27
Other -
TOTAL PRICE 877

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16286

Test Ticket

Well Name & No. <u>STULL #1</u>	Test No. <u>2</u>	Date <u>5-8-02</u>
Company <u>CASTLE RESOURCES INC</u>	Zone Tested <u>ARBuckle</u>	
Address <u>P.O. Box 87 Schoencker, Ks 67667</u>	Elevation <u>2142</u>	KB <u>2137</u> GL
Co. Rep / Geo. <u>JERRY GREEN</u>	Cont. <u>A4A Orlg nlg1</u>	Est. Ft. of Pay <u>-</u> Por. <u>-</u> %
Location: Sec. <u>14</u>	Twp. <u>16^s</u>	Rge. <u>20^w</u>
	Co. <u>Rush</u>	State <u>Ks</u>
No. of Copies <u>Reg</u>	Distribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u>
	Evaluation (Y, N) <u>-</u>	

Interval Tested <u>3850-3872</u>	Initial Str Wt./Lbs. <u>44000</u>	Unseated Str Wt./Lbs. <u>54000</u>
Anchor Length <u>22</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>60000</u>
Top Packer Depth <u>3845</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3850</u>	Hole Size — 7 7/8" <u>yes</u>	Rubber Size — 6 3/4" <u>yes</u>
Total Depth <u>3872</u>	Wt. Pipe Run <u>590</u>	Drill Collar Run <u>-</u>
Mud Wt. <u>9.2</u> LCM <u>-</u> Vis. <u>50</u> WL <u>10</u>	Drill Pipe Size <u>4 1/2 FH</u>	Ft. Run <u>3265</u>
Blow Description <u>TFP - WEAK TO A STRONG BLOW IN 2 MIN</u>		
<u>FFP - WEAK TO A STRONG BLOW IN 2 MIN</u>		
<u>WEAK BLOW BACK ON SHUT-IN</u>		

Recovery — Total Feet <u>2850</u>	GIP <u>415</u>	Ft. in DP <u>590</u>	Ft. in DP <u>2260</u>
Rec. <u>120</u> Feet Of <u>MGO</u>	<u>15</u> %gas <u>55</u> %oil	%water <u>30</u> %mud	
Rec. <u>2730</u> Feet Of <u>CLEAN OIL</u>	%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>119</u> °F Gravity <u>43</u>	°API D@ <u>60</u>	°F Corrected Gravity <u>43</u>	°API
RW <u>-</u> @ <u>-</u> °F Chlorides <u>-</u>	ppm Recovery	Chlorides <u>18000</u>	ppm System

AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1913</u>	PSI Recorder No. <u>3024</u>	T-On Location <u>0530</u>
(B) First Initial Flow Pressure	<u>112</u>	PSI (depth) <u>3851</u>	T-Started <u>0601</u>
(C) First Final Flow Pressure	<u>748</u>	PSI Recorder No. <u>11085</u>	T-Open <u>0805</u>
(D) Initial Shut-In Pressure	<u>1166</u>	PSI (depth) <u>3869</u>	T-Pulled <u>1105</u> 9:15
(E) Second Initial Flow Pressure	<u>749</u>	PSI Recorder No. <u>-</u>	T-Out <u>1445</u>
(F) Second Final Flow Pressure	<u>1008</u>	PSI (depth) <u>-</u>	T-Off Location <u>1530</u>
(G) Final Shut-in Pressure	<u>1164</u>	PSI Initial Opening <u>45</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud	<u>1897</u>	PSI Initial Shut-in <u>45</u>	Jars
		Final Flow <u>45</u>	Safety Joint
		Final Shut-in <u>45</u>	Straddle

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Approved By [Signature]

Our Representative RAY SCHWAGER THANK YOU

Circ. Sub 35
 Sampler
 Extra Packer
 Elec. Rec. 150
 Mileage 27
 Other 1 hr 30
 TOTAL PRICE 942

CHART PAGE

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

