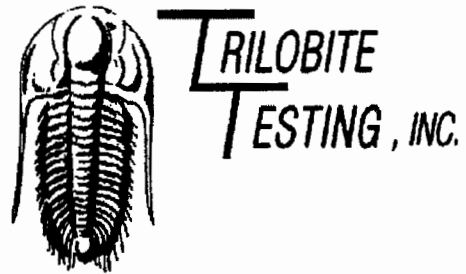


15-025-21361

11-30s-22w



DRILL STEM TEST REPORT

Prepared For: **Thoroughbred Associates**

8100 E 22nd.St N Bldg 600 Ste F
Wichita KS 67226

ATTN: Kevin Davis

11 30S 22W Clark KS

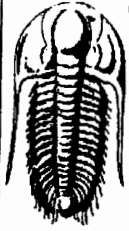
Birney #1

Start Date: 2006.05.05 @ 15:52:05

End Date: 2006.05.06 @ 01:23:20

Job Ticket #: 24058 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

Thoroughbred Associates

Birney #1

8100 E 22nd. St N Bldg 600 Ste F
Wichita KS 67226

11 30S 22W Clark KS

Job Ticket: 24058

DST#: 1

ATTN: Kevin Davis

Test Start: 2006.05.05 @ 15:52:05

GENERAL INFORMATION:

Formation: **Morrow sd**

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

Time Tool Opened: 19:08:20

Time Test Ended: 01:23:20

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux/Adams**

Unit No: **19**

Interval: **5270.00 ft (KB) To 5338.00 ft (KB) (TVD)**

Reference Elevations: **2408.00 ft (KB)**

Total Depth: **5338.00 ft (KB) (TVD)**

2403.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

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

Serial #: 6625

Inside

Press@RunDepth: **1548.05 psig @ 5271.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2006.05.05**

End Date:

2006.05.06

Last Calib.: **2006.05.06**

Start Time: **15:52:06**

End Time:

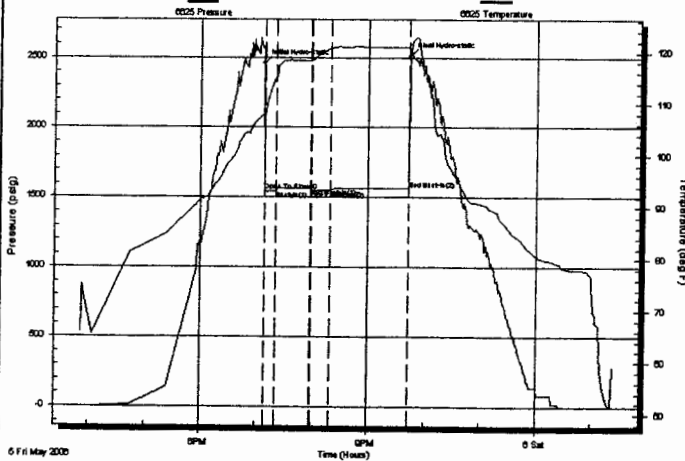
01:23:20

Time On Btm: **2006.05.05 @ 19:07:35**

Time Off Btm: **2006.05.05 @ 21:43:50**

TEST COMMENT: F Strong blow GTS in 2" (see gas flow report)
ISI Venting throughout
F Strong blow (see gas flow report) Heavy mist of Oil & Mud to surf 10-12"
into 2nd open turning to mostly oil mist

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2457.75	108.09	Initial Hydro-static
1	1541.71	107.96	Open To Flow (1)
14	1544.58	115.22	Shut-In (1)
51	1561.34	118.49	End Shut-In (1)
52	1540.97	118.48	Open To Flow (2)
72	1548.05	120.83	Shut-In (2)
156	1560.80	121.06	End Shut-In (2)
157	2510.74	120.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCWM 28%O 27%W 45%M	0.25
215.00	CGO 30%G 70%O	1.29

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	416.00	6722.79
Last Gas Rate	1.00	245.00	7457.44
Max. Gas Rate	0.75	416.00	6722.79



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thoroughbred Associates

Birney #1

8100 E 22nd. St N Bldg 600 Ste F
Wichita KS 67226

11 30S 22W Clark KS

Job Ticket: 24058

DST#: 1

ATTN: Kevin Davis

Test Start: 2006.05.05 @ 15:52:05

Tool Information

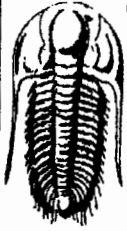
Drill Pipe:	Length: 5026.00 ft	Diameter: 3.80 inches	Volume: 70.50 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 106000.0 lb
			<u>Total Volume: 71.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	5270.00 ft			Final 91000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			5247.00	
Hydraulic tool	5.00			5252.00	
Jars	5.00			5257.00	
Safety Joint	3.00			5260.00	
Packer	5.00			5265.00	28.00 Bottom Of Top Packer
Packer	5.00			5270.00	
Stubb	1.00			5271.00	
Recorder	0.00	6625	Inside	5271.00	
Perforations	30.00			5301.00	
Change Over Sub	1.00			5302.00	
Blank Spacing	32.00			5334.00	
Change Over Sub	1.00			5335.00	
Recorder	0.00	13255	Outside	5335.00	
Bullnose	3.00			5338.00	68.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Thoroughbred Associates
8100 E 22nd. St N Bldg 600 Ste F
Wichita KS 67226
ATTN: Kevin Davis

Birney #1
11 30S 22W Clark KS
Job Ticket: 24058 **DST#: 1**
Test Start: 2006.05.05 @ 15:52:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40.1 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 11000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 11000.00 ppm		
Filter Cake: 0.20 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	OCWM 28%O 27%W 45%M	0.246
215.00	CGO 30%G 70%O	1.285

Total Length: 265.00 ft Total Volume: 1.531 bbl
Num Fluid Samples: 0 Num Gas Bombs: 1 Serial #: gp-1
Laboratory Name: Caraway Laboratory Location: Liberal, KS
Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Thoroughbred Associates

Birney #1

8100 E 22nd. St N Bldg 600 Ste F
Wichita KS 67226

11 30S 22W Clark KS

ATTN: Kevin Davis

Job Ticket: 24058

DST#: 1

Test Start: 2006.05.05 @ 15:52:05

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	15	0.75	416.00	6722.79
1	15	0.75	416.00	6722.79
2	5	1.00	205.00	6307.49
2	10	1.00	245.00	7457.44

Serial #: 6625

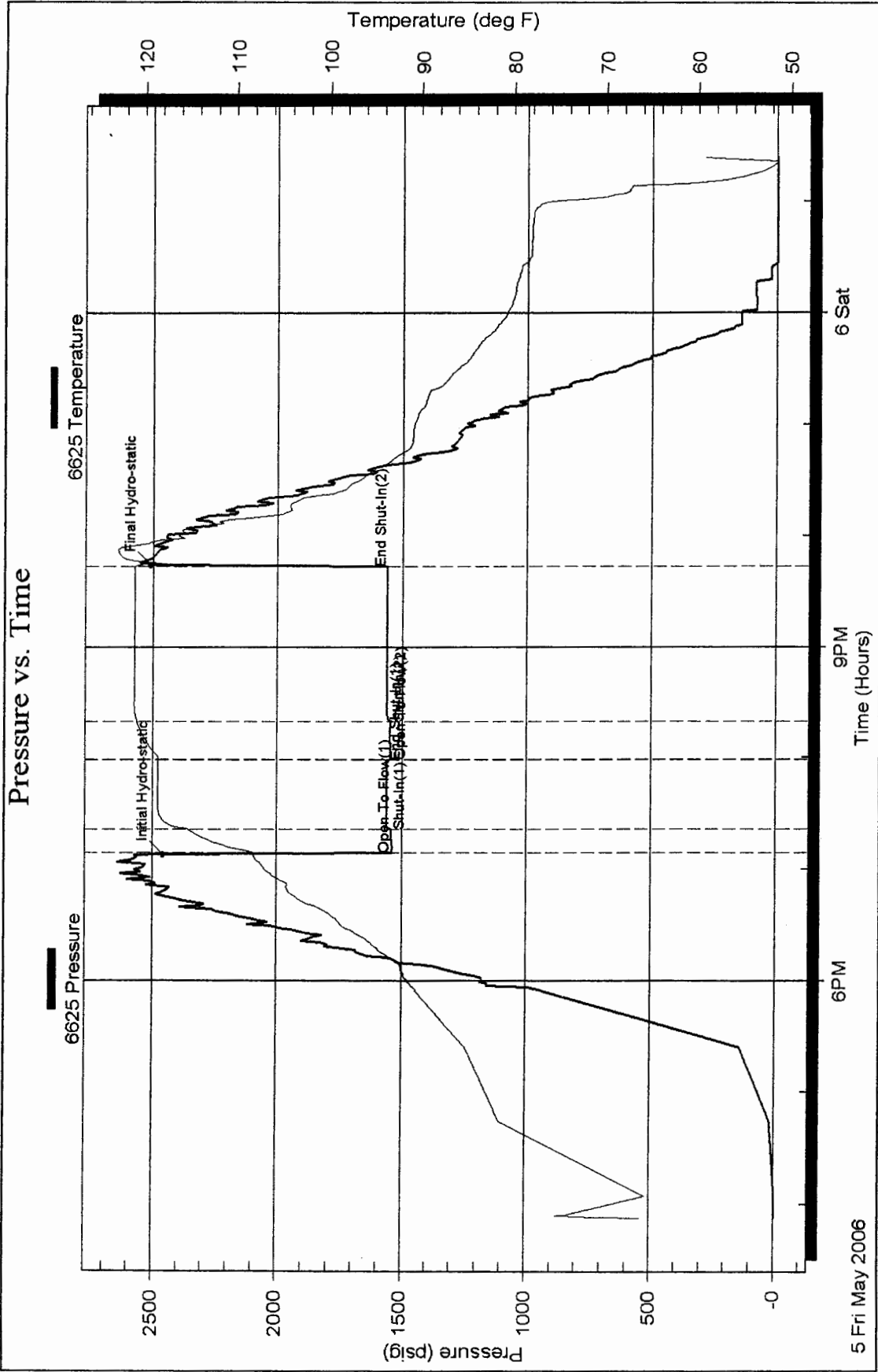
Inside

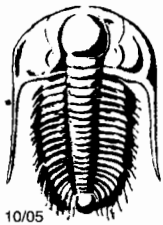
Thoroughbred Associates

11 30S 22W Clark KS

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8730

No 24058

Test Ticket

Well Name & No. Birney #1 Test No. #1 Date 5-05-06
 Company Thoroughbred Associates Zone Tested Morrow SD
 Address 8100 E. 22nd St. N. Bldg. 600 Suite F Elevation 2403 KB 2408 GL
Wichita, Ks. 67226
 Co. Rep / Geo. Kevin Davis Rig Pickrell #1
 Location: Sec. 11 Twp. 30s Rge. 22w Co. Clark State Ks.
 Comment: _____ Release date / time: _____

Interval Tested 5270-5338 Initial Str Wt./Lbs. 90000 Unseated Str Wt./Lbs. 91000
 Anchor Length 68' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 106,000
 Top Packer Depth 5265 Tool Weight 2100
 Bottom Packer Depth 5270 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 5338 Wt. Pipe Run None Drill Collar Run 240
 Mud Wt. 9.2 LCM Trc. _____ Vis. 51 WL 8.0 Drill Pipe Size 4 1/2" Ft. Run 5026

Blow Description IF: strong blow. G.T.S. in 2 mins. (see gas flow report)
I.S.I.: Venting through out. 1
F.F.: Strong blow. (see gas flow report) Heavy mist of Oil + Mud to surface 10-12 mins. Into 2nd open, turning to mostly Oil mist. F.S.I.: Vent.

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>265'</u>	<u>Yes</u>	<u>240'</u>	<u>25'</u>
Rec. <u>215'</u>	Feet of <u>Clean, Gassy Oil</u>	<u>30% gas</u>	<u>70% oil</u>
Rec. <u>50'</u>	Feet of <u>OCLWM</u>	<u>28% gas</u>	<u>27% oil</u>
Rec. _____	Feet of _____	<u>27% water</u>	<u>45% mud</u>
Rec. _____	Feet of _____	<u>45% mud</u>	

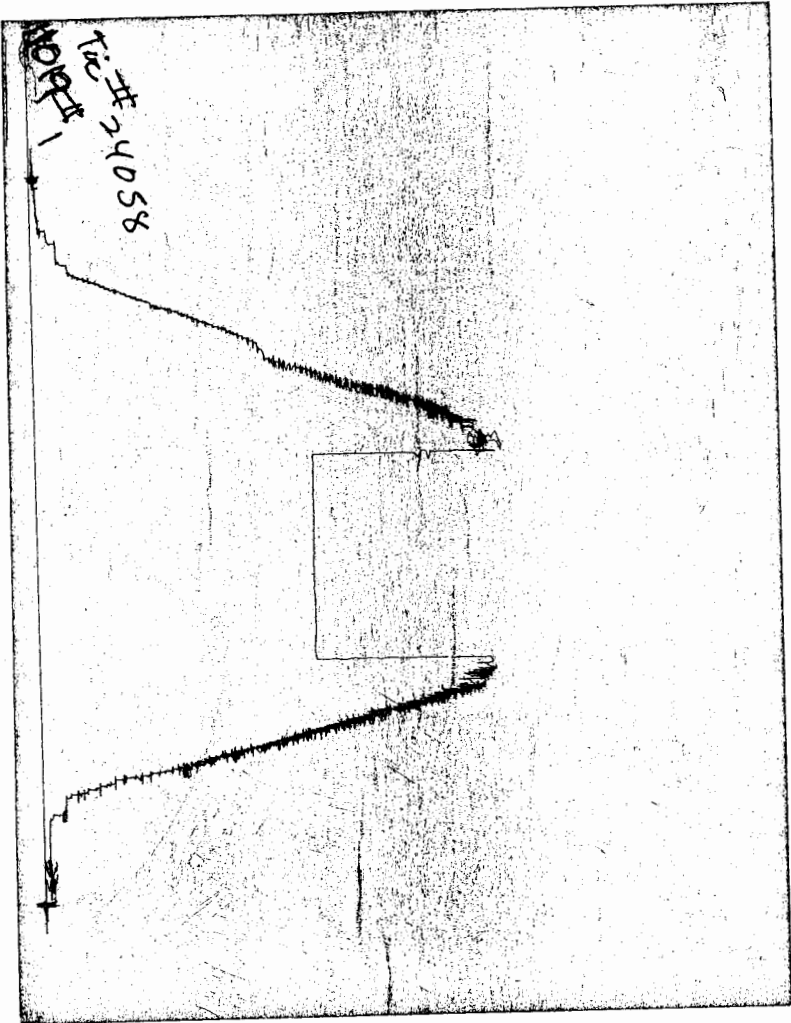
BHT 121 °F Gravity 40 °API D @ 64 °F Corrected Gravity 40.1 °API
 RW N.C. @ _____ °F Chlorides 11000 ppm Recovery _____ Chlorides 11000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2591</u>	PSI	<u>6625</u>	<u>✓ 1200</u>
(B) First Initial Flow Pressure	<u>1542</u>	PSI	(depth) <u>5271</u>	Jars <u>✓ 250</u>
(C) First Final Flow Pressure	<u>1545</u>	PSI	Recorder No. <u>11019</u>	Safety Jt. <u>✓ 75</u>
(D) Initial Shut-In Pressure	<u>1561</u>	PSI	(depth) <u>5335</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>1541</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>1548</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1561</u>	PSI	Initial Opening <u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2542</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>20</u>	Ruined Packer _____
			Final Shut-In <u>75</u>	Mileage <u>125 ✓ 1562</u>

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Approved By Kevin Davis
 Our Representative Guy [Signature]

T-On Location	T-Started	T-Open	T-Pulled	T-Out	Sub Total:	Std. By	Acc. Chg:	Other:	Total:
<u>14:30</u>	<u>15:52</u>	<u>19:08</u>	<u>21:42</u>	<u>01:23</u>	<u>1681.25</u>	<u>37.50</u>			<u>\$1718.75</u>



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

CHART PAGE

*Thoroughbred
Birney #1*