

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

PO Box 641
Hays, KS 67601

ATTN: Kenneth Vehige

Sec. 35 T10 SR33

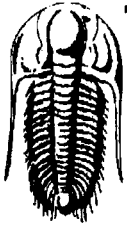
James #1

Start Date: 2005.10.11 @ 09:20:09

End Date: 2005.10.11 @ 16:05:46

Job Ticket #: 21382 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

Black Diamond Oil, Inc.

James #1

PO Box 641
Hays, KS 67601

Sec. 35 T10 SR33

ATTN: Kenneth Vehige

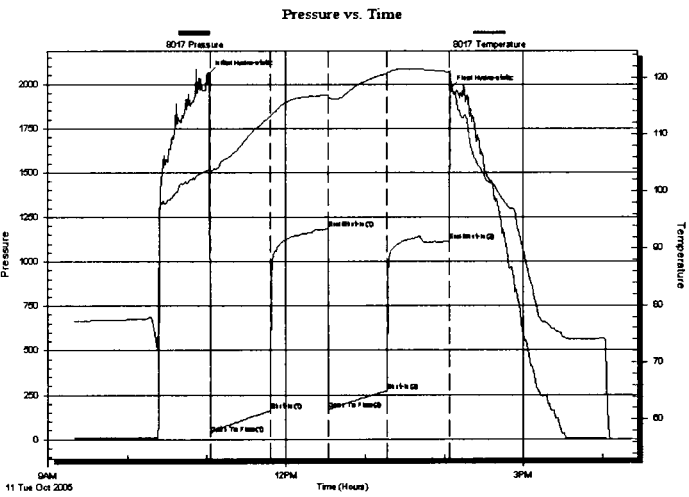
Job Ticket: 21382 **DST#: 1**
Test Start: 2005.10.11 @ 09:20:09

GENERAL INFORMATION:

Formation: **L/KC H-I-J-K**
 Deviated: **No Whipstock:** **ft (KB)**
 Time Tool Opened: **11:03:01**
 Time Test Ended: **16:05:46**
 Interval: **4236.00 ft (KB) To 4354.00 ft (KB) (TVD)**
 Total Depth: **4354.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Chuck Smith**
 Unit No: **15**
 Reference Elevations: **3143.00 ft (KB)**
3135.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8017 **Inside**
 Press@RunDepth: **270.80 psig @ 4349.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2005.10.11** End Date: **2005.10.11** Last Calib.: **2005.10.11**
 Start Time: **09:20:09** End Time: **16:05:46** Time On Btm: **2005.10.11 @ 11:02:01**
 Time Off Btm: **2005.10.11 @ 14:04:31**

TEST COMMENT: F: 1/4" BOB in 17 min.
 IS: Weak surface blow -died in 10 min, returned in 15 min built oto 1/8" and died again.
 FF: 1/2" BOB in 20 min.
 FS: no blow



PRESSURE SUMMARY

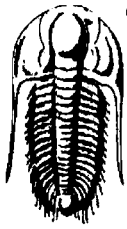
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2057.69	103.73	Initial Hydro-static
1	28.29	103.35	Open To Flow (1)
47	160.53	113.12	Shut-In(1)
90	1183.12	116.90	End Shut-In(1)
90	166.54	116.50	Open To Flow (2)
135	270.80	120.73	Shut-In(2)
182	1114.35	121.00	End Shut-In(2)
183	1972.57	120.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
450.00	Muddy w ater 80% w ater 20% mud	6.04
250.00	mud	3.51

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

James #1

PO Box 641
Hays, KS 67601

Sec. 35 T10 SR33

Job Ticket: 21382

DST#: 1

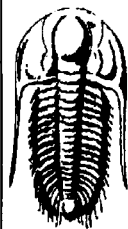
ATTN: Kenneth Vehige

Test Start: 2005.10.11 @ 09:20:09

Tool Information

Drill Pipe:	Length: 4184.00 ft	Diameter: 3.80 inches	Volume: 58.69 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 51000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4236.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	118.00 ft			
Tool Length:	146.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4209.00	
Shut In Tool	5.00			4214.00	
Hydraulic tool	5.00			4219.00	
Jars	5.00			4224.00	
Safety Joint	3.00			4227.00	
Packer	5.00			4232.00	28.00 Bottom Of Top Packer
Packer	4.00			4236.00	
Stubb	1.00			4237.00	
Perforations	1.00			4238.00	
Change Over Sub	1.00			4239.00	
Drill Pipe	94.00			4333.00	
Change Over Sub	1.00			4334.00	
Perforations	15.00			4349.00	
Recorder	0.00	8017	Inside	4349.00	
Recorder	0.00	13309	Outside	4349.00	
Bullnose	5.00			4354.00	118.00 Bottom Packers & Anchor
Total Tool Length:	146.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

James #1

PO Box 641
Hays, KS 67601

Sec. 35 T10 SR33

Job Ticket: 21382

DST#: 1

ATTN: Kenneth Vehige

Test Start: 2005.10.11 @ 09:20:09

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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	Muddy w ater 80% w ater 20% mud	6.039
250.00	mud	3.507

Total Length: 700.00 ft Total Volume: 9.546 bbl

Num Fluid Samples: 0

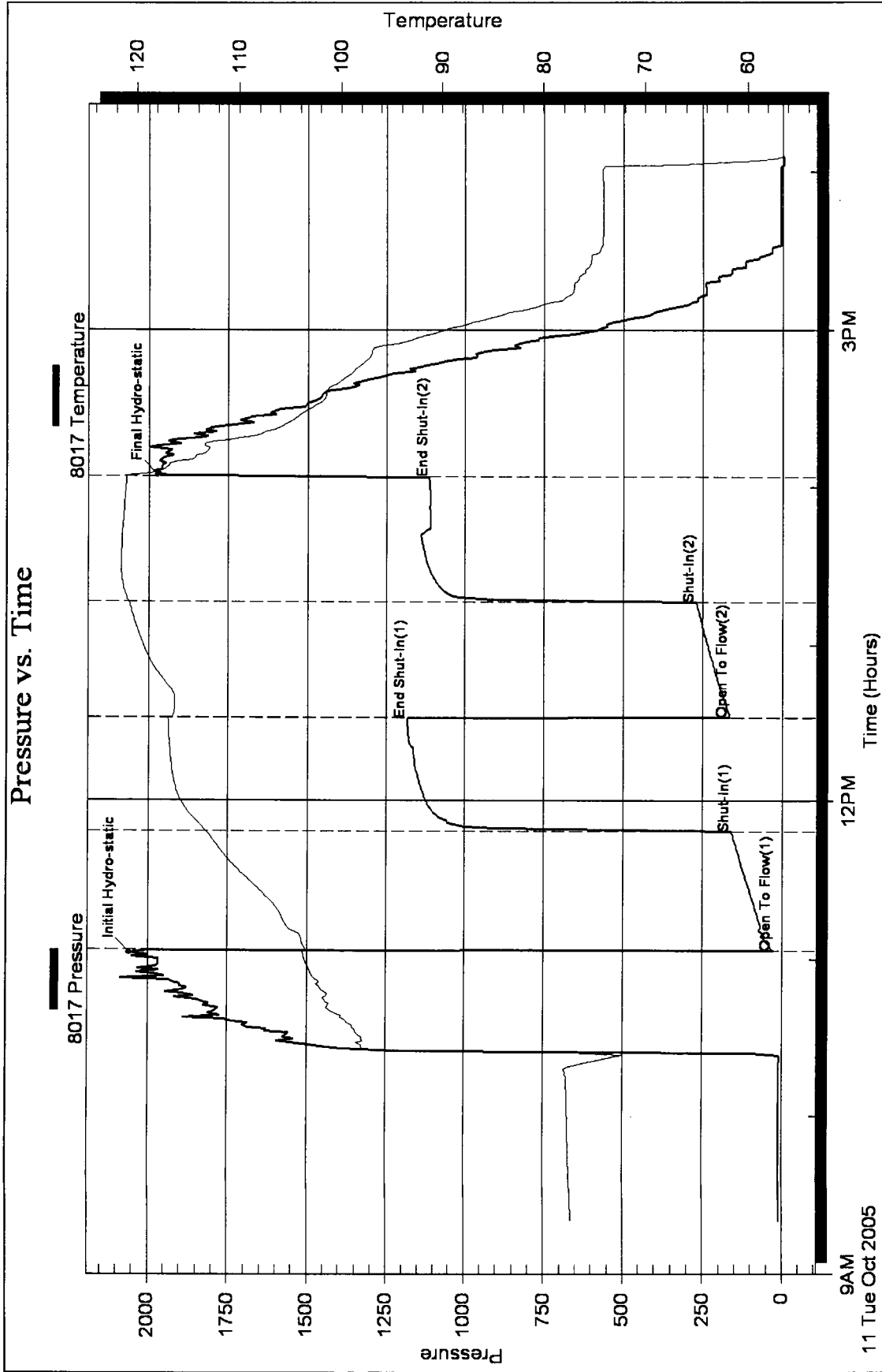
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

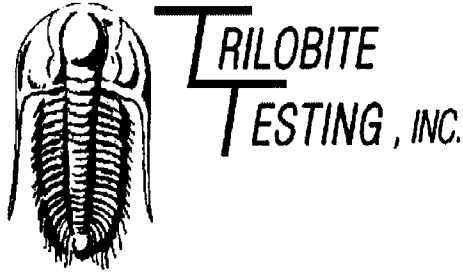
Recovery Comments: Rw .4 @ 58



9AM
11 Tue Oct 2005

12PM

3PM



DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

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Sec. 35 T10 SR33

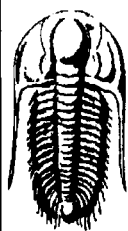
James #1

Start Date: 2005.10.12 @ 15:32:25

End Date: 2005.10.12 @ 21:41:10

Job Ticket #: 21383 DST #: 2

Trilobite Testing, Inc
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**TRILOBITE
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DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

James #1

PO Box 641
Hays, KS 67601

Sec. 35 T10 SR33

ATTN: Kenneth Vehige

Job Ticket: 21383

DST#: 2

Test Start: 2005.10.12 @ 15:32:25

GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 17:37:10

Time Test Ended: 21:41:10

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **15**

Interval: **4596.00 ft (KB) To 4676.00 ft (KB) (TVD)**

Total Depth: **4676.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3143.00 ft (KB)**

3135.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8017

Inside

Press@RunDepth: **281.94 psig @ 4602.00 ft (KB)**

Start Date: **2005.10.12**

End Date:

2005.10.12

Start Time: **15:32:28**

End Time:

21:41:10

Capacity: **7000.00 psig**

Last Calib.: **2005.10.12**

Time On Btm: **2005.10.12 @ 17:36:40**

Time Off Btm: **2005.10.12 @ 19:22:25**

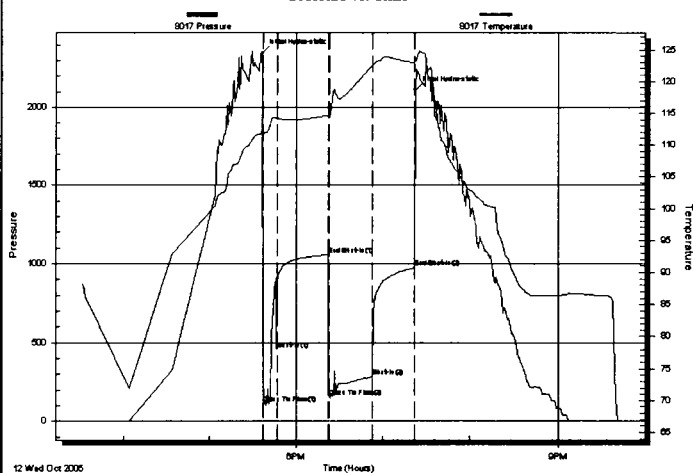
TEST COMMENT: IF: 1/2" Surging blow built to 10" in 15 min.

IS: Weak surface blow

FF: 1/2" Blow built to BOB in 10 min.

FS: Weak surface blow died in 15 min.

Pressure vs. Time



PRESSURE SUMMARY

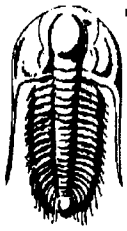
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2347.60	112.25	Initial Hydro-static
1	111.89	111.79	Open To Flow (1)
10	458.14	114.07	Shut-In(1)
46	1056.07	114.60	End Shut-In(1)
47	152.96	114.48	Open To Flow (2)
76	281.94	122.40	Shut-In(2)
106	974.08	122.93	End Shut-In(2)
106	2111.52	123.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	OSVM 2% oil 48% w 50% m	5.62
90.00	OSM 3% o 97% m	1.26

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.
PO Box 641
Hays, KS 67601
ATTN: Kenneth Vehige

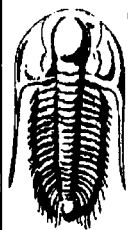
James #1
Sec. 35 T10 SR33
Job Ticket: 21383 **DST#: 2**
Test Start: 2005.10.12 @ 15:32:25

Tool Information

Drill Pipe:	Length: 4555.00 ft	Diameter: 3.80 inches	Volume: 63.89 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4596.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4569.00	
Shut In Tool	5.00			4574.00	
Hydraulic tool	5.00			4579.00	
Jars	5.00			4584.00	
Safety Joint	3.00			4587.00	
Packer	5.00			4592.00	28.00 Bottom Of Top Packer
Packer	4.00			4596.00	
Stubb	1.00			4597.00	
Perforations	4.00			4601.00	
Change Over Sub	1.00			4602.00	
Recorder	0.00	8017	Inside	4602.00	
Drill Pipe	62.00			4664.00	
Change Over Sub	1.00			4665.00	
Perforations	5.00			4670.00	
Recorder	0.00	13309	Outside	4670.00	
Bullnose	5.00			4675.00	79.00 Bottom Packers & Anchor
Total Tool Length:	107.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

James #1

PO Box 641
Hays, KS 67601

Sec. 35 T10 SR33

Job Ticket: 21383

DST#: 2

ATTN: Kenneth Vehige

Test Start: 2005.10.12 @ 15:32:25

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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	OSWM 2% oil 48% w 50% m	5.618
90.00	OSM 3% o 97% m	1.262

Total Length: 510.00 ft Total Volume: 6.880 bbl

Num Fluid Samples: 0

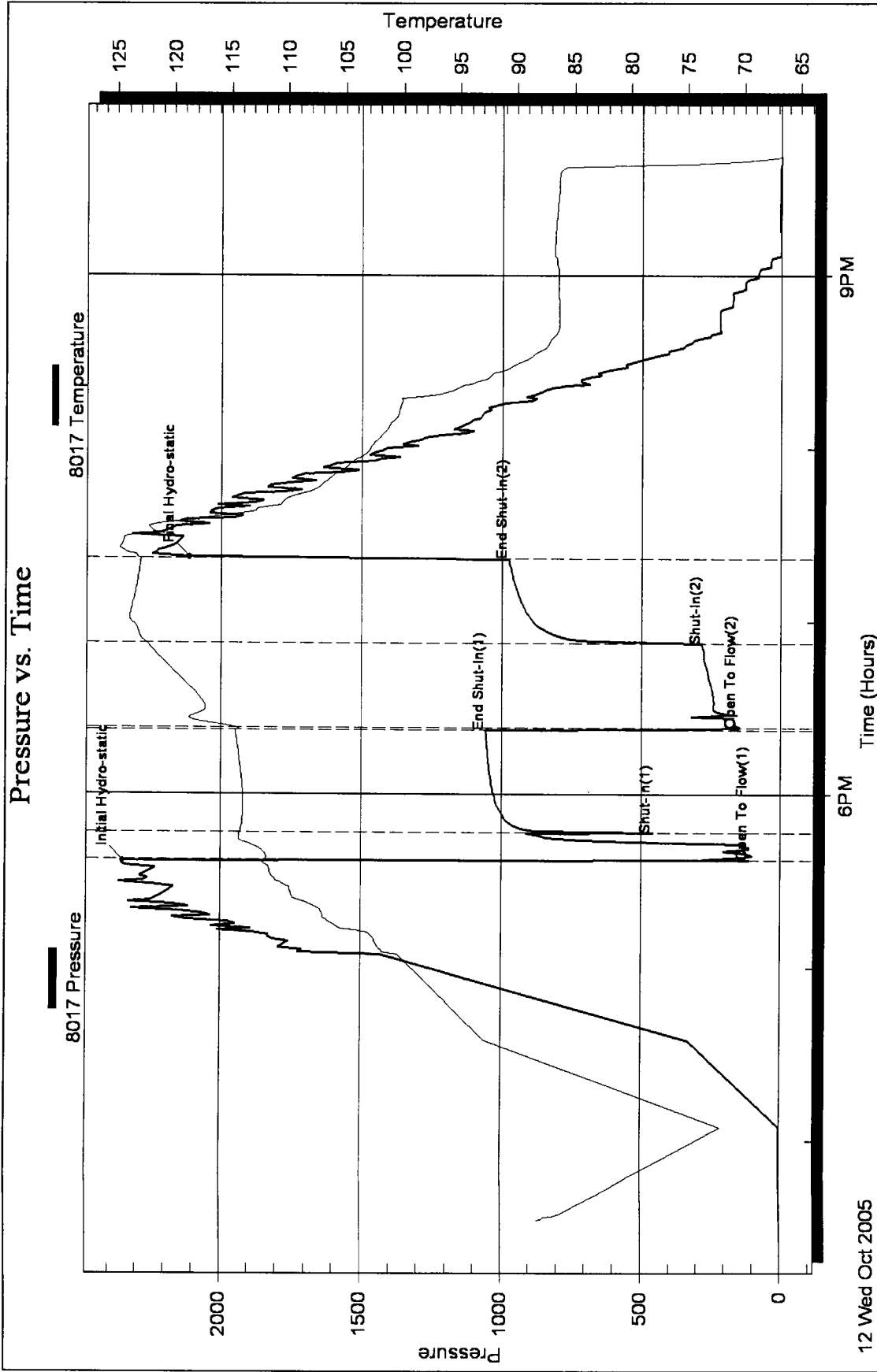
Num Gas Bombs: 0

Serial #:

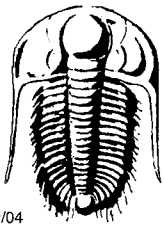
Laboratory Name:

Laboratory Location:

Recovery Comments:



12 Wed Oct 2005



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
1985

No 21382

9/04

Test Ticket

Well Name & No. ~~Discovery #1~~ James #1 Test No. 1 Date 10-11-05
 Company Black Diamond Oil Zone Tested L/KC H-F-J-K
 Address PO Box 641 Hays, KS 67601 Elevation 3143 KB 3135 GL
 Co. Rep / Geo. Tony Richardson Cont. Discovery #1 Est. Ft. of Pay Por. %
 Location: Sec. 35 Twp. 10 Rge. 33 Co. Thomas State KS
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4236-4354 Initial Str Wt./Lbs. 48,000 Unseated Str Wt./Lbs. 50,000
 Anchor Length 118. Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 51,000
 Top Packer Depth 4,232 Tool Weight 1,500
 Bottom Packer Depth 4,236 Hole Size 7 7/8" X Rubber Size 6 3/4" X
 Total Depth 4354 Wt. Pipe Run Drill Collar Run 30.
 Mud Wt. 8.8 LCM Vis. 44 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 4184.
 Blow Description IF: 1/4" BOB in 12 min.
 IS: weak surface blow
 FF: 1/2" BOB in 20 min
 FS: No Blow

Recovery - Total Feet 700 GIP 0 Ft. in DC 30 Ft. in DP 670
 Rec. 250 Feet of mud %gas %oil %water 100 %mud
 Rec. 450 Feet of muddy water %gas %oil 80 %water 20 %mud
 Rec. Feet of %gas %oil %water %mud
 Rec. Feet of %gas %oil %water %mud
 Rec. Feet of %gas %oil %water %mud
 BHT 121 °F Gravity °API D @ °F Corrected Gravity °API
 RW .40 @ 58 °F Chlorides 24,000 ppm Recovery 24,000 Chlorides 5,000 ppm System

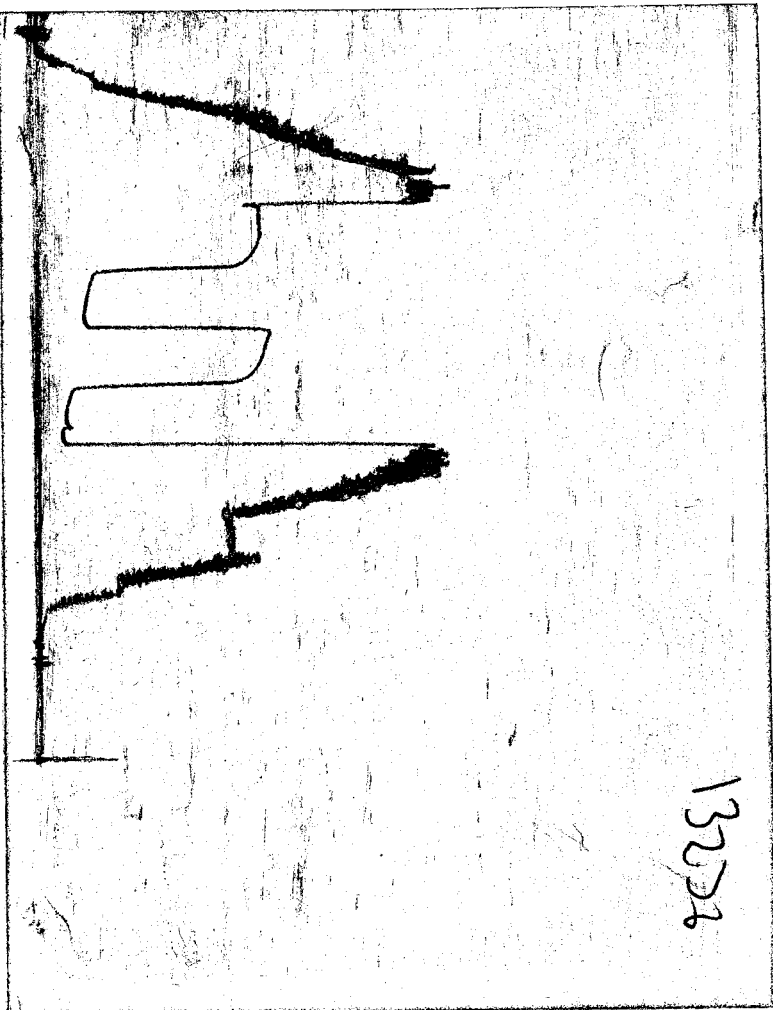
AK-1	Alpine	PSI	Recorder No.	Test	Jars	Safety Jt.	Circ Sub	Sampler	Straddle	Initial Opening	Ext. Packer	Shale Packer	Ruined Packer	Mileage	Sub Total:	Std. By	Other	Total:
(A) Initial Hydrostatic Mud	2058		8017	X 1,100						45								
(B) First Initial Flow Pressure	28		(depth) 4237	X	200													
(C) First Final Flow Pressure	161		Recorder No. 13309	X	50													
(D) Initial Shut-In Pressure	1,183		(depth) 4,353	X N/C														
(E) Second Initial Flow Pressure	167		Recorder No.															
(F) Second Final Flow Pressure	271		(depth)															
(G) Final Shut-In Pressure	1,114		Initial Opening															
(Q) Final Hydrostatic Mud	1,973		Initial Shut-In															
			Final Flow															
			Final Shut-In															
			T-On Location															
			T-Started															
			T-Open															
			T-Pulled															
			T-Out															

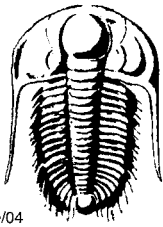
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By [Signature]
 Our Representative Chuck Smith

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21383

9/04

Test Ticket

Well Name & No. James #1 Test No. 2 Date 10-12-05
 Company Black Diamond Oil Zone Tested Johnson
 Address PO Box 641 Hays, KS 67601 Elevation 3143 KB 3135 GL
 Co. Rep / Geo. Tony Richardson Cont. Discovery #1 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 35 Twp. 10 Rge. 33 Co. Thomas State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4596-4676 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 53,000
 Anchor Length 80' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 5
 Top Packer Depth 4,592 Tool Weight 1,500
 Bottom Packer Depth 4,596 Hole Size 7 7/8" X Rubber Size 6 3/4" X
 Total Depth 4,676 Wt. Pipe Run _____ Drill Collar Run 30
 Mud Wt. 9.0 LCM _____ Vis. 63 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 4,555
 Blow Description IF: 1/2" Surging blow built to 10" in 15min
IS: weak surface blow
FF: 1/2" blow built to BOB in 10 min
FS: weak surface blow, died in 15min.

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>510</u>	<u>0</u>	<u>30</u>	<u>480</u>
Rec. <u>90</u> Feet of _____	%gas <u>3</u> %oil _____ %water <u>97</u> %mud _____		
Rec. <u>420</u> Feet of _____	%gas <u>2</u> %oil <u>48</u> %water <u>50</u> %mud _____		
Rec. _____ Feet of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet of _____	%gas _____ %oil _____ %water _____ %mud _____		
BHT <u>123</u> °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API			
RW <u>.18</u> @ <u>55</u> °F Chlorides <u>54,000</u> ppm Recovery <u>54,000</u> Chlorides <u>6,000</u> ppm System			

	AK-1	Alpine	Recorder No.	Test X
(A) Initial Hydrostatic Mud	<u>2347</u>	PSI	<u>8017</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>112</u>	PSI	(depth) <u>4,597</u>	Jars <u>200</u>
(C) First Final Flow Pressure	<u>458</u>	PSI	Recorder No. <u>13309</u>	Safety Jt. <u>50</u>
(D) Initial Shut-In Pressure	<u>1,056</u>	PSI	(depth) <u>4,675</u>	Circ Sub <u>X</u>
(E) Second Initial Flow Pressure	<u>153</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>282</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>974</u>	PSI	Initial Opening <u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2,111</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>30</u>	Mileage _____
			T-On Location <u>14:30</u>	Sub Total: <u>120.0 RT 120</u>
			T-Started <u>15:32</u>	Std. By <u>1470</u>
			T-Open <u>17:37</u>	Other _____
			T-Pulled <u>21:41</u>	Total: _____
			T-Out _____	

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Approved By [Signature]
 Our Representative Chuck Smith

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

