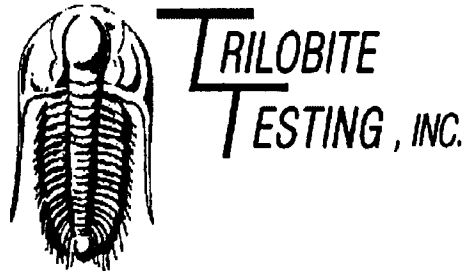


15-187-21062

12-30s-4lw



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources**

1616 S. Voss Rd. Suite 150 Houston, TX
77057

ATTN: Gary Gensch

12/30/41

Johns 3-12

Start Date: 2005.09.29 @ 09:46:23

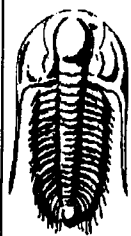
End Date: 2005.09.29 @ 17:35:53

Job Ticket #: 22450 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

Landmark Resources

1616 S. Voss Rd. Suite 150 Houston, TX 77057

ATTN: Gary Gensch

Johns 3-12

12/30/41

Job Ticket: 22450

DST#: 1

Test Start: 2005.09.29 @ 09:46:23

GENERAL INFORMATION:

Formation: **Upper Keyes Snd.**

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

Time Tool Opened: 12:06:53

Time Test Ended: 17:35:53

Test Type: **Conventional Bottom Hole**

Tester: **Chris Hagman**

Unit No: **34**

Interval: **5292.00 ft (KB) To 5389.00 ft (KB) (TVD)**

Total Depth: **5389.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Good**

Reference Elevations: **3356.00 ft (KB)**

3346.00 ft (CF)

KB to GRVCF: **10.00 ft**

Serial #: 6752

Inside

Press@RunDepth: **37.45 psig @ 5294.00 ft (KB)**

Start Date: **2005.09.29** End Date: **2005.09.29**

Start Time: **09:46:23** End Time: **17:35:53**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2005.09.29 @ 12:03:53**

Time Off Btm: **2005.09.29 @ 15:11:23**

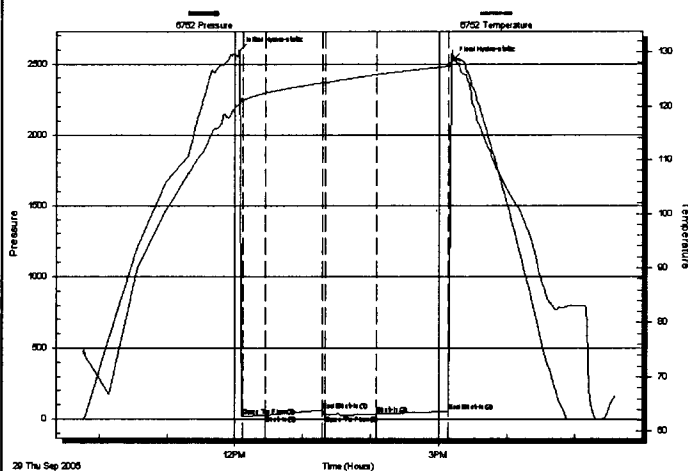
TEST COMMENT: IF: Weak surface blow, .5 inches in 15 min, steadily dying

IS: No blow back

FF: No blow

FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

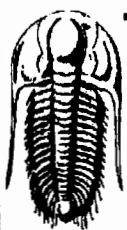
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2590.72	120.24	Initial Hydro-static
3	21.41	121.44	Open To Flow (1)
24	25.95	122.42	Shut-In(1)
74	64.51	124.33	End Shut-In(1)
77	30.65	124.40	Open To Flow (2)
122	37.45	125.80	Shut-In(2)
185	54.80	127.33	End Shut-In(2)
188	2521.53	130.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100%M trace oil	0.15

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources

Johns 3-12

1616 S. Voss Rd. Suite 150 Houston, TX 77057

12/30/41

Job Ticket: 22450

DST#: 1

ATTN: Gary Gensch

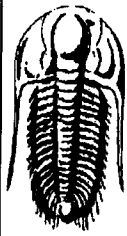
Test Start: 2005.09.29 @ 09:46:23

Tool Information

Drill Pipe:	Length: 5059.00 ft	Diameter: 3.80 inches	Volume: 70.96 bbl	Tool Weight: 2000.00 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: 213.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	72.01 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	5292.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	97.00 ft			
Tool Length:	125.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5265.00	
Shut In Tool	5.00			5270.00	
Hydraulic tool	5.00			5275.00	
Jars	5.00			5280.00	
Safety Joint	3.00			5283.00	
Packer	5.00			5288.00	28.00 Bottom Of Top Packer
Packer	4.00			5292.00	
Stubb	1.00			5293.00	
Perforations	1.00			5294.00	
Recorder	0.00	6752	Inside	5294.00	
Perforations	22.00			5316.00	
Change Over Sub	1.00			5317.00	
Drill Pipe	63.00			5380.00	
Change Over Sub	1.00			5381.00	
Perforations	5.00			5386.00	
Recorder	0.00	13630	Inside	5386.00	
Bullnose	3.00			5389.00	97.00 Bottom Packers & Anchor
Total Tool Length:	125.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources

Johns 3-12

1616 S. Voss Rd. Suite 150 Houston, TX 77057

12/30/41

Job Ticket: 22450

DST#: 1

ATTN: Gary Gensch

Test Start: 2005.09.29 @ 09:46:23

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:

2400 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 350.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100%M, trace oil	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

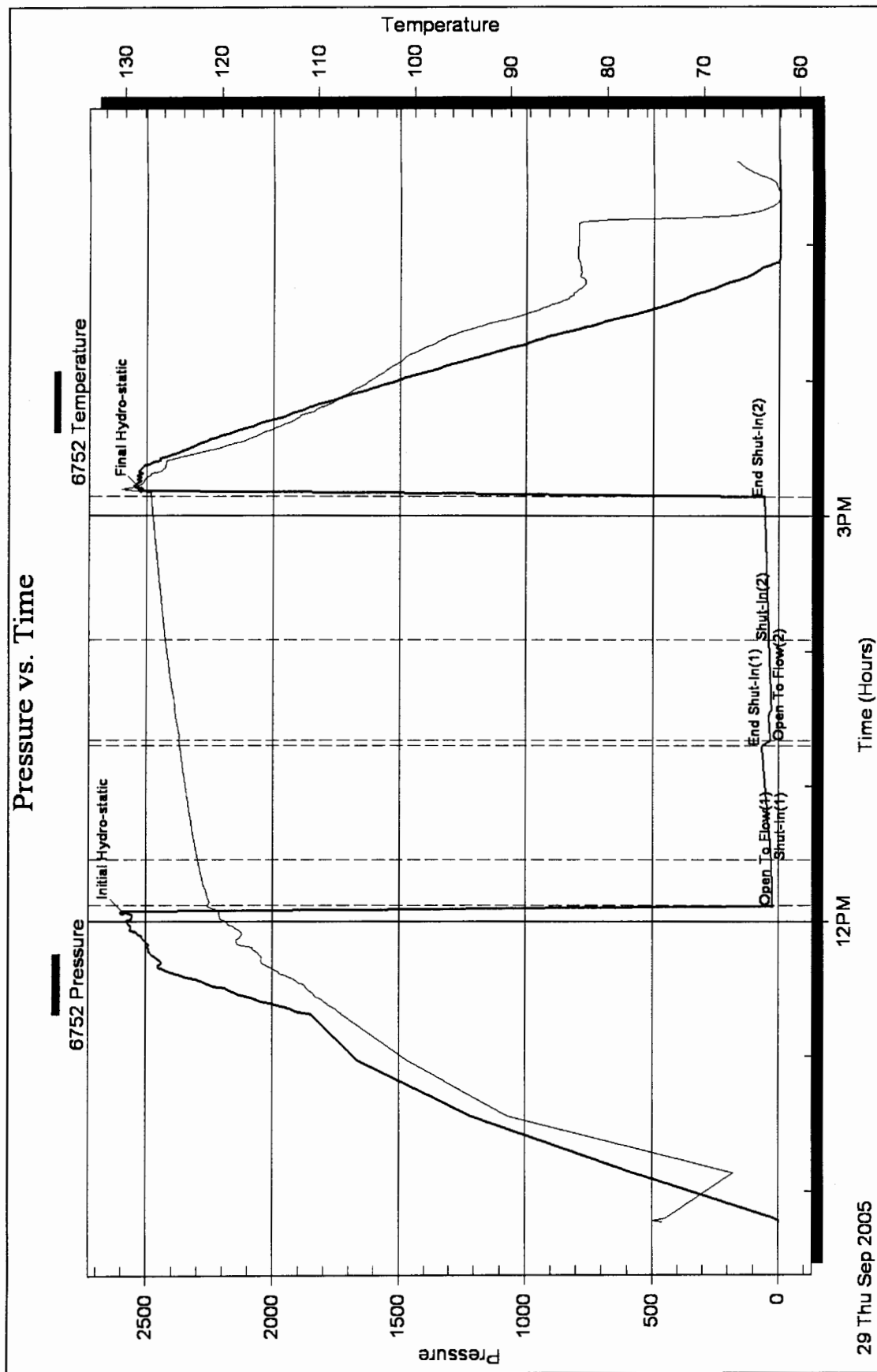
Serial #:

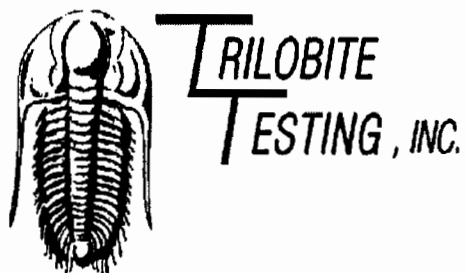
Laboratory Name:

Laboratory Location:

Recovery Comments: RW=2.212@82=2400ppm

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Landmark Resources**

1616 S. Voss Rd. Suite 150 Houston, TX
77057

ATTN: Gary Gensch

12/30/41

Johns 3-12

Start Date: 2005.09.30 @ 01:38:10

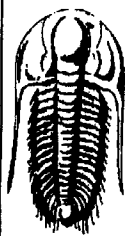
End Date: 2005.09.30 @ 14:42:10

Job Ticket #: 22326 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

Landmark Resources

Johns 3-12

1616 S. Voss Rd. Suite 150 Houston, TX 77057

12/30/41

Job Ticket: 22326

DST#: 2

ATTN: Gary Gensch

Test Start: 2005.09.30 @ 01:38:10

GENERAL INFORMATION:

Formation: **Lower Keyes Snd**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:57:30

Time Test Ended: 14:42:10

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Interval: **5389.00 ft (KB) To 5408.00 ft (KB) (TVD)**

Total Depth: 5408.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 3356.00 ft (KB)

3346.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6752**

Inside

Press@RunDepth: 1260.26 psig @ 5391.00 ft (KB)

Start Date: 2005.09.30

End Date:

2005.09.30

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 01:38:10

End Time:

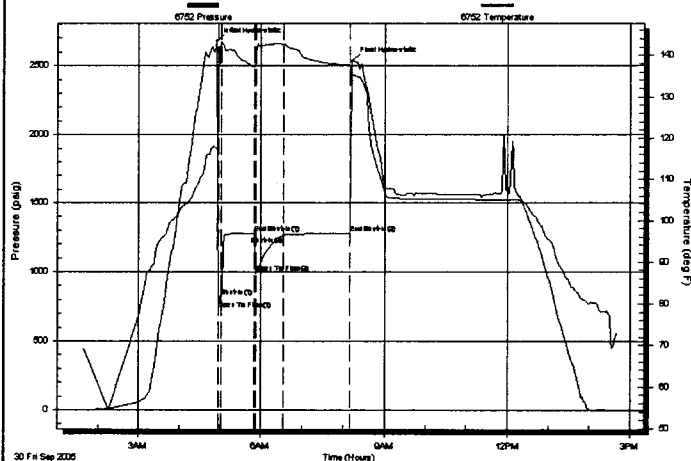
14:42:10

Time On Btm: 2005.09.30 @ 04:54:49

Time Off Btm: 2005.09.30 @ 08:12:50

TEST COMMENT: IF: BOB ASAO, strong steady blow
IS: Blow back immediately, BOB 6 min
FF: BOB 20 sec., GTS ASAO, strong building blow
FS: Blow back immediately, BOB 5 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2675.99	117.45	Initial Hydro-static
3	728.15	128.24	Open To Flow (1)
7	816.88	143.31	Shut-In(1)
56	1279.06	137.32	End Shut-In(1)
58	993.27	138.47	Open To Flow (2)
98	1260.26	142.63	Shut-In(2)
195	1278.19	137.65	End Shut-In(2)
199	2535.24	135.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2154.00	5%G,95%W	28.27
124.00	5%G,20%O,15%W,60%M	1.74
1070.00	10%G,90%O	15.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.00	7.63
Last Gas Rate	0.13	13.00	10.26
Max. Gas Rate	0.13	13.00	10.26



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources

Johns 3-12

1616 S. Voss Rd. Suite 150 Houston, TX 77057

12/30/41

Job Ticket: 22326

DST#: 2

ATTN: Gary Gensch

Test Start: 2005.09.30 @ 01:38:10

Tool Information

Drill Pipe:	Length: 5153.00 ft	Diameter: 3.80 inches	Volume: 72.28 bbl	Tool Weight: 2000.00 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: 213.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 73.33 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	5389.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Bottom two stands of collars were full of loose sand

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5362.00	
Shut In Tool	5.00			5367.00	
Hydraulic tool	5.00			5372.00	
Jars	5.00			5377.00	
Safety Joint	3.00			5380.00	
Packer	5.00			5385.00	28.00 Bottom Of Top Packer
Packer	4.00			5389.00	
Stubb	1.00			5390.00	
Perforations	1.00			5391.00	
Recorder	0.00	6752	Inside	5391.00	
Perforations	14.00			5405.00	
Recorder	0.00	13630	Inside	5405.00	
Bullnose	3.00			5408.00	19.00 Bottom Packers & Anchor

Total Tool Length: 47.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources

Johns 3-12

1616 S. Voss Rd. Suite 150 Houston, TX 77057

12/30/41

Job Ticket: 22326

DST#: 2

ATTN: Gary Gensch

Test Start: 2005.09.30 @ 01:38:10

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:

29000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 350.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2154.00	5%G,95%W	28.275
124.00	5%G,20%O,15%W,60%M	1.739
1070.00	10%G,90%O	15.009

Total Length: 3348.00 ft Total Volume: 45.023 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API=greater than 41 @ 70F

RWF: 209@82F=29000



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Landmark Resources

Johns 3-12

1616 S. Voss Rd. Suite 150 Houston, TX 77057

12/30/41

Job Ticket: 22326

DST#: 2

ATTN: Gary Gensch

Test Start: 2005.09.30 @ 01:38:10

Gas Rates Information

Temperature: 59 deg C

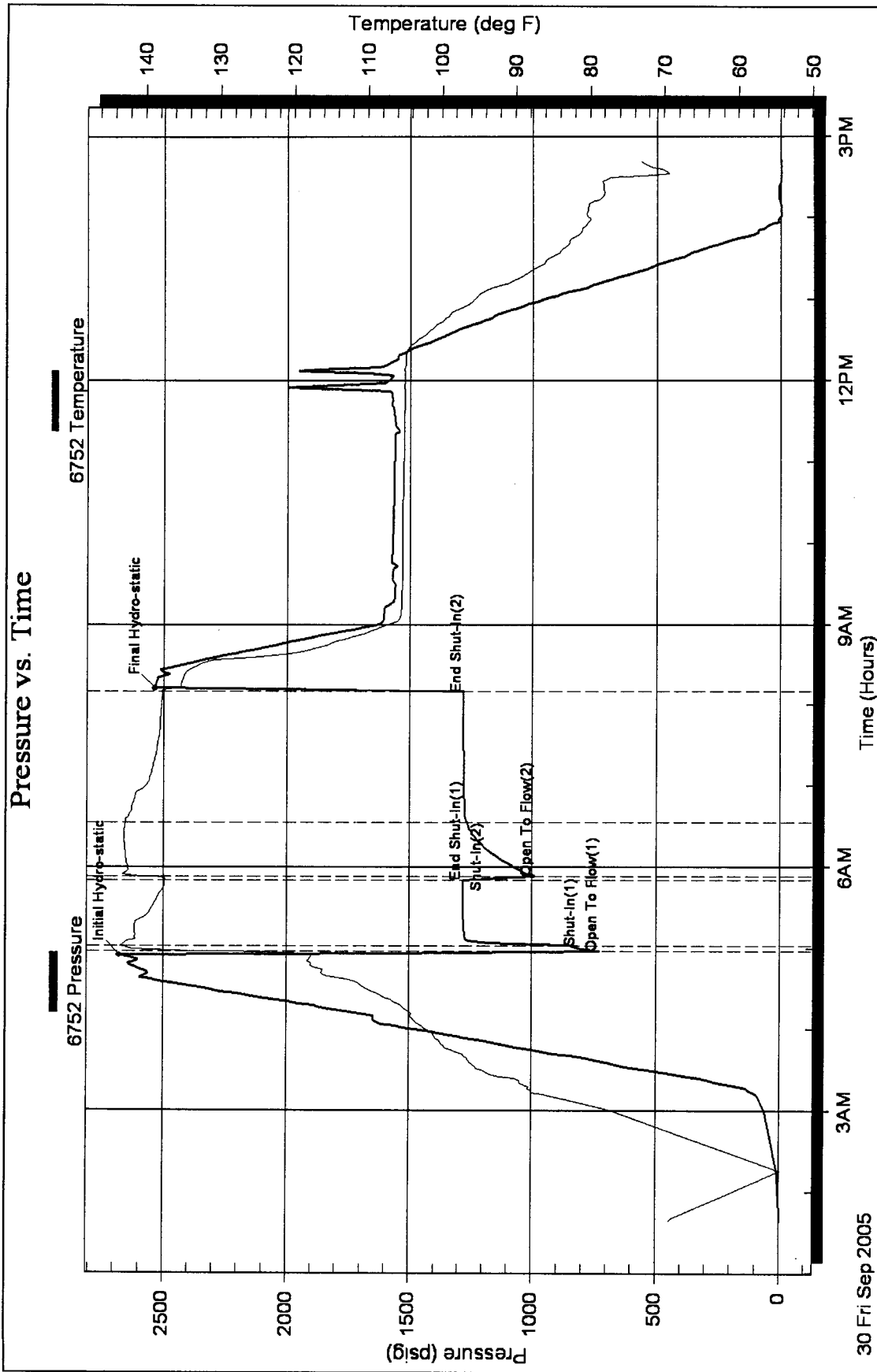
Relative Density: 0.65

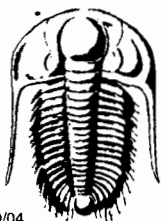
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.13	6.00	7.63
2	20	0.13	8.00	8.38
2	30	0.13	9.00	8.76
2	40	0.13	13.00	10.26
2	40	0.13	13.00	10.26

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

TNN
7951

No 22450

9/04

Test Ticket

Well Name & No. Landmark Resources Johns 3-12 Test No. 1 Date 9-29-05
 Company Landmark Resources Zone Tested Upper Keyes Snd.
 Address 1616 S. Voss Rd. Suite 150 Houston, TX 77057 Elevation 3356 KB 3346 GL
 Co. Rep / Geo. Gary Gersch Cont. Martin 22 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 12 Twp. 30 Rge. 41 Co. Stanton State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5292-5389 Initial Str Wt./Lbs. 59K Unseated Str Wt./Lbs. 60K
 Anchor Length 97' Wt. Set Lbs. 20K Wt. Pulled Loose/Lbs. 65K
 Top Packer Depth 5287 Tool Weight 2K
 Bottom Packer Depth 5292 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 5389 Wt. Pipe Run 20K Drill Collar Run 213
 Mud Wt. 9.3 LCM S# Vis. SS WL 7.2 Drill Pipe Size 4.5 XH Ft. Run 5059
 Blow Description IF: Weak surface blow .5 inches in 15 min, steadily dying blow
IST: No blow back
EF: No blow
FST: No blow back

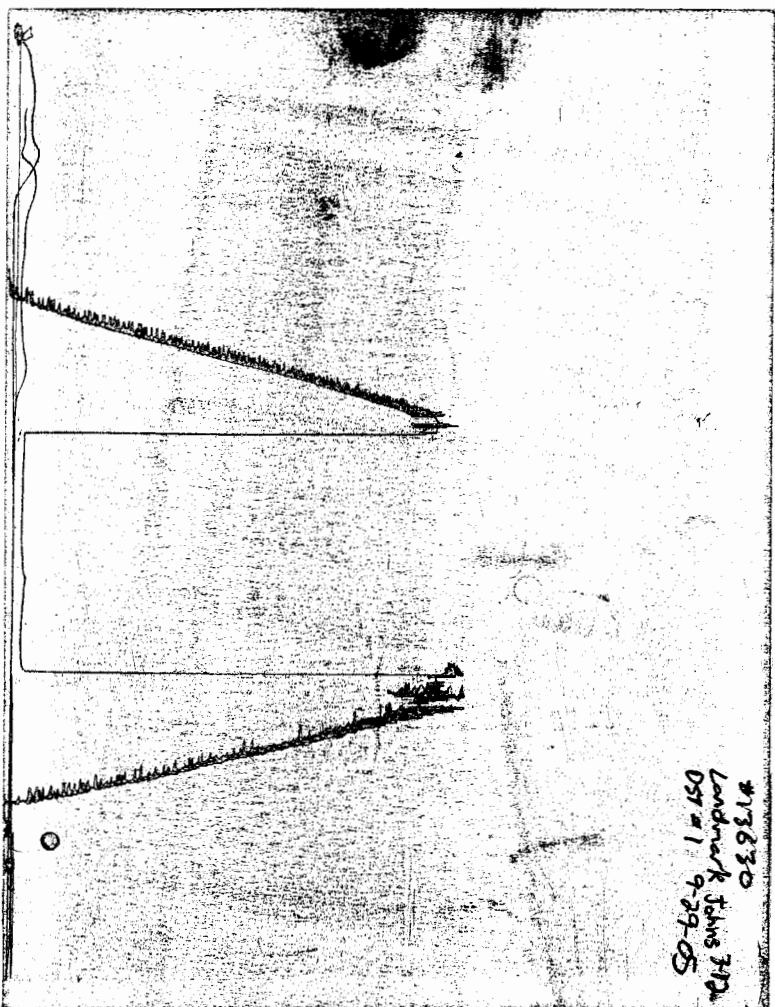
Recovery - Total Feet 30 GIP _____ Ft. in DC 30 Ft. in DP _____
 Rec. 30 Feet of Mud w/ Trace of Oil %gas Trace %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 127 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 2.212 @ 82 °F Chlorides 2400 ppm Recovery _____ Chlorides 350 ppm System

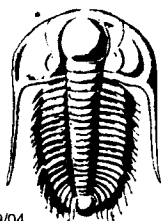
AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	2591 PSI	6752 (944)	✓ conv. 1200
(B) First Initial Flow Pressure	21 PSI	(depth) 5294	Jars ✓ 200
(C) First Final Flow Pressure	26 PSI	Recorder No. 13630	Safety Jt. ✓ 50
(D) Initial Shut-In Pressure	65 PSI	(depth) 5386	Circ Sub _____
(E) Second Initial Flow Pressure	31 PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	37 PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	55 PSI	Initial Opening 30	Ext. Packer _____
(Q) Final Hydrostatic Mud	2522 PSI	Initial Shut-In 45	Shale Packer _____
		Final Flow 45	Ruined Packer _____
		Final Shut-In 60	Mileage ✓ 80 80
		T-On Location 0845	Sub Total: 1530 1530
		T-Started 0940	Std. By _____
		T-Open 1205	Other _____
		T-Pulled 1505	Total: 1530
		T-Out 0545	

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Approved By Gary Gersch
 Our Representative CAH

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 22326

9/04

Test Ticket

Well Name & No. <u>Johas 3-12</u>	Test No. <u>2</u>	Date <u>9-30-05</u>
Company <u>Landmark Resources</u>	Zone Tested <u>Lower Keyes sand.</u>	
Address <u>1616 S Jass Rd. Suite 150 Houston, TX 77057</u>	Elevation <u>3356</u>	KB <u>3346</u> GL
Co. Rep / Geo. <u>Gary Gensch</u>	Cont. <u>Martin 22</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>12</u> Twp. <u>30</u> Rge. <u>41</u> Co. <u>Stanton</u> State <u>KS</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>5389-5408</u>	Initial Str Wt./Lbs. <u>58K</u>	Unseated Str Wt./Lbs. <u>68K</u>
Anchor Length <u>19'</u>	Wt. Set Lbs. <u>20K</u>	Wt. Pulled Loose/Lbs. <u>90K</u>
Top Packer Depth <u>5384</u>	Tool Weight <u>2K</u>	
Bottom Packer Depth <u>5389</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>5408</u>	Wt. Pipe Run <u>N.A.</u>	Drill Collar Run <u>213</u>
Mud Wt. <u>9.3</u> LCM <u>5#</u> Vis. <u>SS</u> WL <u>7.2</u>	Drill Pipe Size <u>4.5X4</u>	Ft. Run <u>5153</u>

Blow Description IF: BOB ASAO, strong steady blow
1st: Blow back immediately, BOB 6 min
FF: BOB 20 sec., GTS ASAO, strong building blow
FST: Blowback immediately, BOB 5 min

Recovery - Total Feet <u>3348</u>	GIP <u>2018</u>	Ft. in DC <u>213</u>	Ft. in DP <u>3135</u>
Rec. <u>1070</u>	Feet of <u>gas cut oil</u>	10 %gas	90 %oil
Rec. <u>124</u>	Feet of <u>gassy oil cut water mud</u>	5 %gas	20 %oil
Rec. <u>2154</u>	Feet of <u>gassy water</u>	5 %gas	95 %water
Rec. <u>26 collars were plugged with sand</u>	Feet of _____	%gas	%oil
BHT <u>138</u> °F Gravity <u>greater than 41</u> °API D @ <u>70</u>	°F Corrected Gravity <u>241</u>	°API	
RW <u>.209</u> @ <u>80</u> °F	Chlorides <u>29,000</u> ppm Recovery _____	Chlorides <u>350</u> ppm System	

AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>2676</u> PSI	Recorder No. <u>6752 (0137)</u>	Test <u>✓</u> <u>1200</u>
(B) First Initial Flow Pressure	<u>728</u> PSI	(depth) _____	Jars <u>✓</u> <u>200</u>
(C) First Final Flow Pressure	<u>817</u> PSI	Recorder No. <u>13630</u>	Safety Jt. <u>✓</u> <u>50</u>
(D) Initial Shut-In Pressure	<u>1279</u> PSI	(depth) _____	Circ Sub <u>✓</u> <u>25</u>
(E) Second Initial Flow Pressure	<u>993</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>1260</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1278</u> PSI	Initial Opening <u>5</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2535</u> PSI	Initial Shut-In <u>45</u>	Shale Packer <u>✓</u> <u>x 2.0 300</u>
		Final Flow <u>45</u>	Ruined Packer _____
		Final Shut-In <u>90</u>	Mileage <u>✓</u> <u>x 80 80</u>
		T-On Location <u>0130</u>	Sub Total: <u>1865</u>
		T-Started <u>0500 0230</u>	Std. By <u>x 3.0 150</u>
		T-Open <u>0500</u>	Other _____
		T-Pulled <u>0805</u>	Total: <u>2015</u> <u>\$2015</u>
		T-Out <u>1430</u>	

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Approved By [Signature]

Our Representative [Signature]

GAS VOLUME REPORT

Landmark Resources

OPERATOR

Johns 3-12

WELL NAME AND NO.

2
DST NO.

[illegible]

IF: BOB ASAO, strong steady blow

ISI: Blow back immediately, BOB 6 min.

FF: BOB 20 sec, GTS ~~in~~ ASAO, strong building blow

FST: Slow back in depth, BOB 5 min.

Remarks: Flammable

CHART PAGE

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

