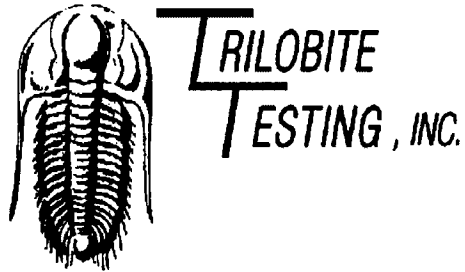


15-137-20440

27-5s-21w



DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

PO Drawer 2436
Midland, TX 797022436

ATTN: Kitt Noah

27-5s-21w-Norton

Mulder #1

Start Date: 2005.06.17 @ 11:05:33

End Date: 2005.06.17 @ 16:06:48

Job Ticket #: 22853 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

Great Eastern Energy

PO Drawer 2436
Midland, TX 797022436

ATTN: Kitt Noah

Mulder #1

27-5s-21w-Norton

Job Ticket: 22853

DST#: 1

Test Start: 2005.06.17 @ 11:05:33

GENERAL INFORMATION:

Formation: LKC-"C-D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:02:03

Time Test Ended: 16:06:48

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3414.00 ft (KB) To 3452.00 ft (KB) (TVD)

Total Depth: 3452.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2212.00 ft (KB)

2207.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6741 Inside

Press@RunDepth: 336.12 psig @ 3419.00 ft (KB)

Start Date: 2005.06.17

End Date:

2005.06.17

Start Time: 11:05:35

End Time:

16:06:48

Capacity: 7000.00 psig

Last Calib.: 2005.06.17

Time On Btm: 2005.06.17 @ 13:01:48

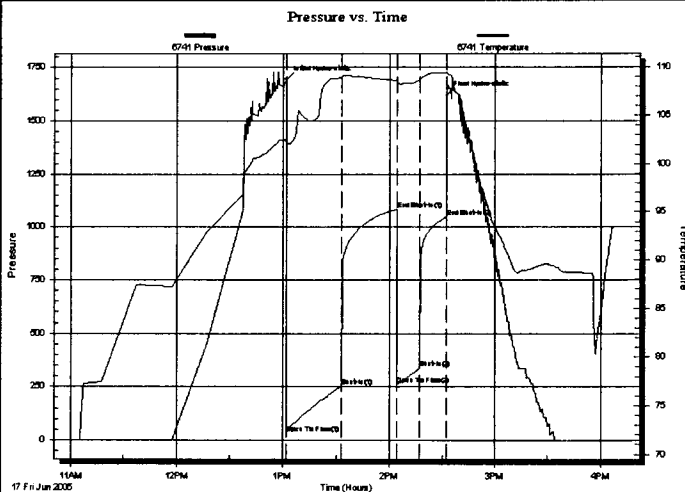
Time Off Btm: 2005.06.17 @ 14:32:33

TEST COMMENT: FFP-Good Blow, BOB in 5-1/2 Min.

ISI-Dead

FFP-BOB in 7 Min.

FSI-Dead



PRESSURE SUMMARY

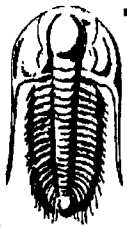
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.46	102.57	Initial Hydro-static
1	31.90	102.19	Open To Flow (1)
31	251.51	108.94	Shut-In(1)
63	1084.18	108.58	End Shut-In(1)
63	262.97	108.32	Open To Flow (2)
76	336.12	108.61	Shut-In(2)
91	1047.70	109.36	End Shut-In(2)
91	1619.68	109.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
665.00	Muddy Water, Oil Specs in top 2 Stds.	8.23

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Mulder #1

PO Drawer 2436
Midland, TX 797022436

27-5s-21w-Norton

Job Ticket: 22853

DST#: 1

ATTN: Kitt Noah

Test Start: 2005.06.17 @ 11:05:33

Tool Information

Drill Pipe:	Length: 3295.00 ft	Diameter: 3.80 inches	Volume: 46.22 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 46.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3414.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	59.00 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			3394.00	
Shut In Tool	5.00			3399.00	
Hydraulic tool	5.00			3404.00	
Packer	5.00			3409.00	21.00 Bottom Of Top Packer
Packer	5.00			3414.00	
Stubb	1.00			3415.00	
Perforations	4.00			3419.00	
Recorder	0.00	6741	Inside	3419.00	
Perforations	30.00			3449.00	
Recorder	0.00	13252	Outside	3449.00	
Bullnose	3.00			3452.00	38.00 Bottom Packers & Anchor

Total Tool Length: 59.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Mulder #1

PO Drawer 2436
Midland, TX 797022436

27-5s-21w-Norton

Job Ticket: 22853

DST#: 1

ATTN: Kitt Noah

Test Start: 2005.06.17 @ 11:05:33

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:

63000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
665.00	Muddy Water, Oil Specs in top 2 Stds.	8.226

Total Length: 665.00 ft

Total Volume: 8.226 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

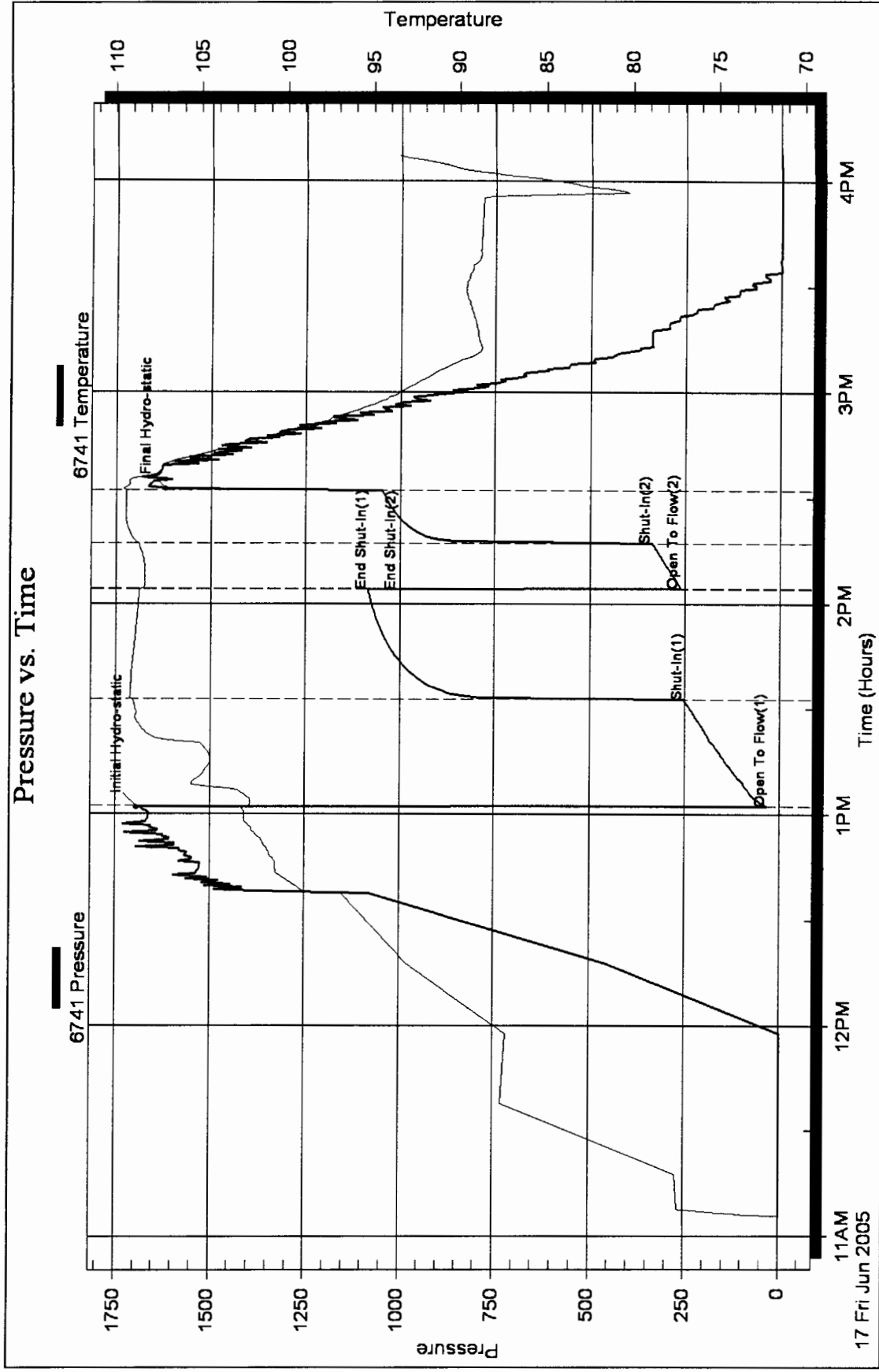
Serial #: 6741

Inside

Great Eastern Energy

27-5s-21w-Norton

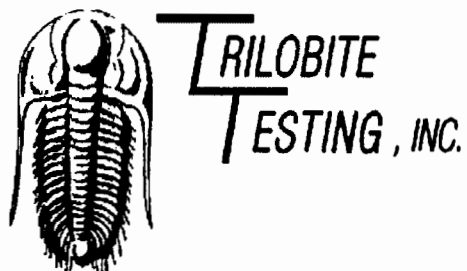
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 22853

Printed: 2005.06.30 @ 13:53:32 Page 5



DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

PO Drawer 2436
Midland, TX 797022436

ATTN: Kitt Noah

27-5s-21w-Norton

Mulder #1

Start Date: 2005.06.18 @ 08:52:56

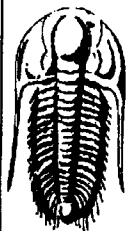
End Date: 2005.06.18 @ 15:11:56

Job Ticket #: 22854 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

Great Eastern Energy

PO Drawer 2436
Midland, TX 797022436

ATTN: Kitt Noah

Mulder #1

27-5s-21w-Norton

Job Ticket: 22854

DST#: 2

Test Start: 2005.06.18 @ 08:52:56

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:38:56

Time Test Ended: 15:11:56

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3621.00 ft (KB) To 3628.00 ft (KB) (TVD)**

Total Depth: 3628.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2212.00 ft (KB)

2207.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6741 Inside

Press@RunDepth: 513.21 psig @ 3625.00 ft (KB)

Start Date: 2005.06.18

End Date:

2005.06.18

Start Time: 08:52:58

End Time:

15:11:56

Capacity: 7000.00 psig

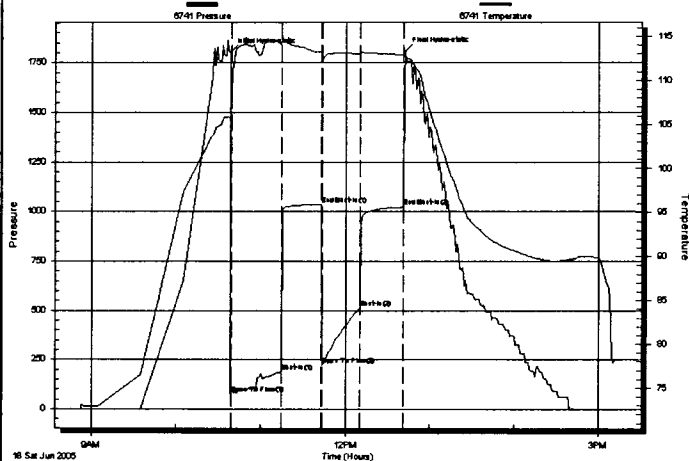
Last Calib.: 2005.06.18

Time On Btm: 2005.06.18 @ 10:38:41

Time Off Btm: 2005.06.18 @ 12:42:11

TEST COMMENT: FFP-Strong Blow, BOB in 3-1/2 Min.
ISI-Blow back Building to 7/8"
FFP-Strong Blow, BOB in 3-1/2 Min.
FSI-Blow back Building to 3"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1803.00	105.80	Initial Hydro-static
1	79.51	105.29	Open To Flow (1)
36	189.19	114.29	Shut-In(1)
65	1036.05	113.20	End Shut-In(1)
65	224.46	112.53	Open To Flow (2)
92	513.21	113.02	Shut-In(2)
123	1023.42	112.91	End Shut-In(2)
124	1808.45	112.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
450.00	Salt Water	5.21
300.00	Oil Cut Water-15%O-85%W	4.21
300.00	Watery Oil-80%O-20%W	4.21

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Mulder #1

PO Drawer 2436
Midland, TX 797022436

27-5s-21w-Norton

Job Ticket: 22854

DST#: 2

ATTN: Kitt Noah

Test Start: 2005.06.18 @ 08:52:56

Tool Information

Drill Pipe:	Length: 3512.00 ft	Diameter: 3.80 inches	Volume: 49.26 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 52000.00 lb
		Total Volume: 49.86 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3621.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	28.00 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			3601.00	
Shut In Tool	5.00			3606.00	
Hydraulic tool	5.00			3611.00	
Packer	5.00			3616.00	21.00 Bottom Of Top Packer
Packer	5.00			3621.00	
Stubb	1.00			3622.00	
Perforations	3.00			3625.00	
Recorder	0.00	6741	Inside	3625.00	
Bullnose	3.00			3628.00	7.00 Bottom Packers & Anchor
Total Tool Length:	28.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Mulder #1

PO Draw er 2436
Midland, TX 797022436

27-5s-21w-Norton

Job Ticket: 22854

DST#: 2

ATTN: Kitt Noah

Test Start: 2005.06.18 @ 08:52:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

22 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

53000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	Salt Water	5.210
300.00	Oil Cut Water-15%O-85%W	4.208
300.00	Watery Oil-80%O-20%W	4.208

Total Length: 1050.00 ft

Total Volume: 13.626 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

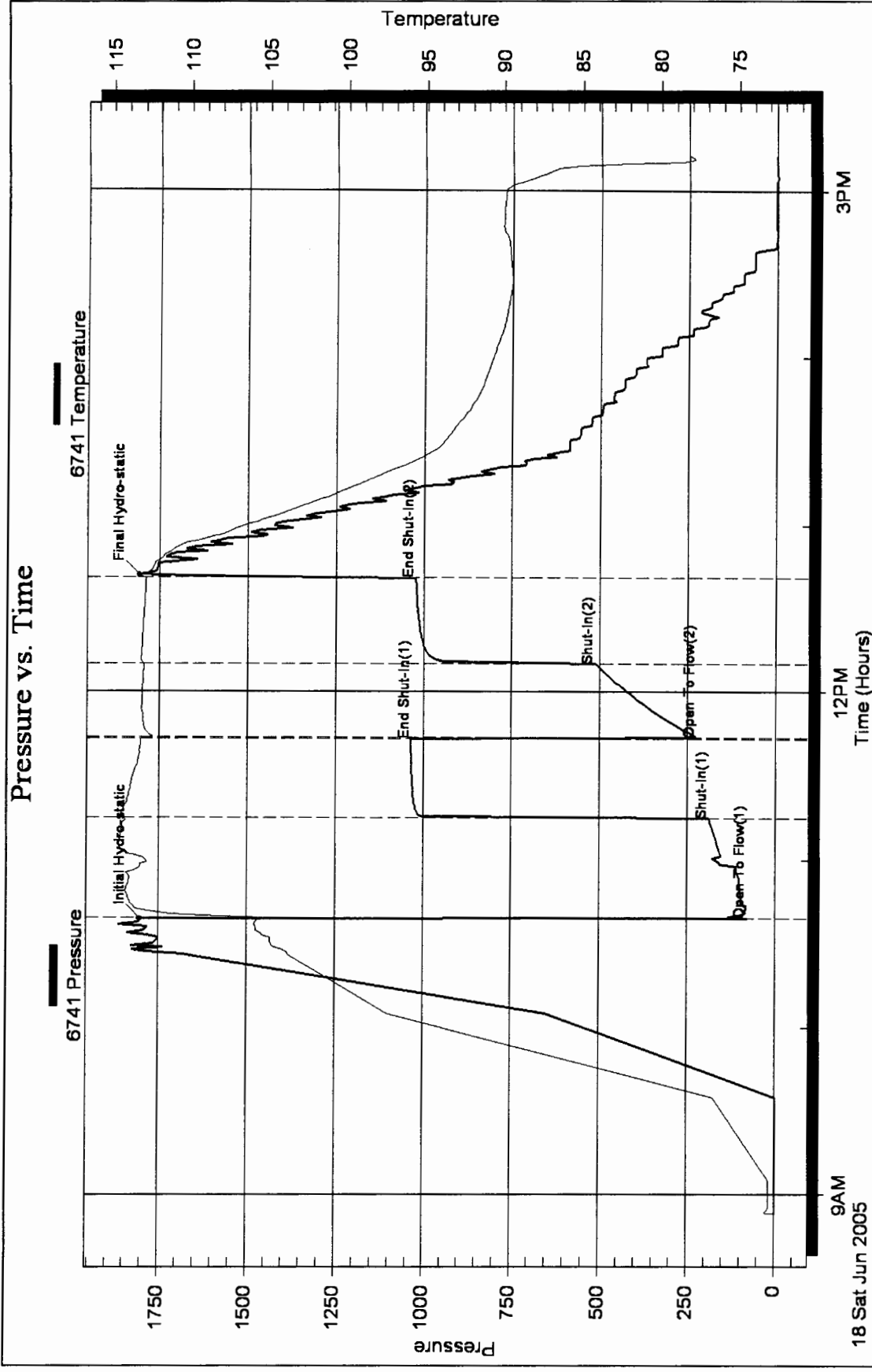
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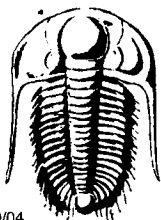
Serial #: 6741

Inside Great Eastern Energy

27-5s-21w -Norton

DST Test Number: 2





9/04

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

JNV
7609

No 22853

X

Test Ticket

Well Name & No. <u>Mulder #1</u>	Test No. <u>1</u>	Date <u>6-17-05</u>
Company <u>Great Eastern</u>	Zone Tested <u>LKC C-D</u>	
Address <u>PO Drawer 2436, Midland, TX</u>	Elevation <u>2212</u> KB <u>2207</u> GL	
Co. Rep / Geo. <u>Kitt Noah</u>	Cont. <u>WW Drilling</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>27</u> Twp. <u>5s</u> Rge. <u>21w</u> Co. <u>Norton</u> State <u>Ks</u>		
No. of Copies <u>Reg</u> Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____		

Interval Tested <u>3414-3452</u>	Initial Str Wt./Lbs. <u>46,000</u>	Unseated Str Wt./Lbs. <u>47,000</u>
Anchor Length <u>38'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>48,000</u>
Top Packer Depth <u>3409</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3414</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth <u>3452</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>121</u>
Mud Wt. <u>9.2</u> LCM <u>1#</u> Vis. <u>51</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3295</u>
Blow Description <u>IFP - Good Blow, BOB in 5 1/2 min.</u>		

ISI - DeadFFP - BOB in 7 min.FSI - Dead

Recovery - Total Feet <u>665</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>665</u>	Feet of <u>Muddy water</u>	%gas _____	%oil _____
Rec. _____	Feet of <u>Oil specs in top 2 str.</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT _____	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW <u>.092</u> @ <u>90</u> °F	Chlorides <u>63,000</u> ppm	Recovery _____	Chlorides <u>5,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1694</u> PSI	Alpine <u>1694</u> PSI	Recorder No. <u>6741</u>	Test <u>✓</u> <u>950</u>
(B) First Initial Flow Pressure	<u>32</u> PSI	(depth) <u>3419</u>	Jars _____	
(C) First Final Flow Pressure	<u>252</u> PSI	Recorder No. <u>13221</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure	<u>1084</u> PSI	(depth) <u>3449</u>	Circ Sub _____	
(E) Second Initial Flow Pressure	<u>263</u> PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure	<u>336</u> PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure	<u>1047</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>1620</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____	

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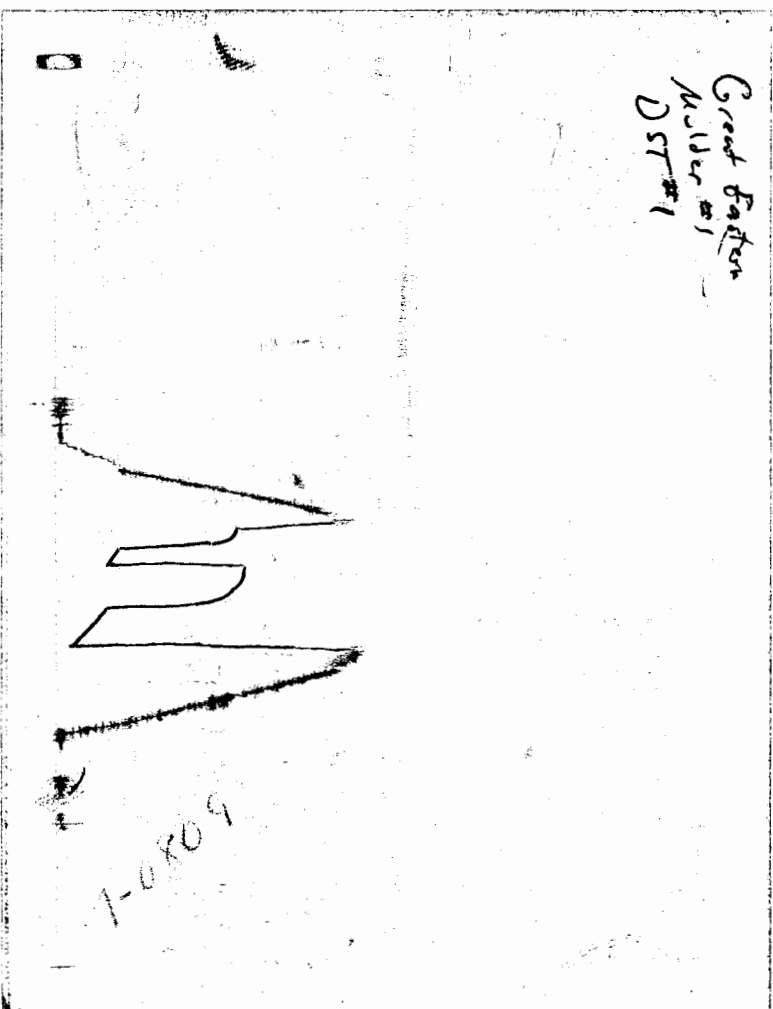
Approved By _____

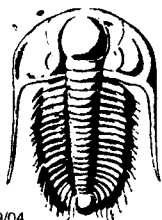
Our Representative J. Mc Lamon

Thank you

Final Flow <u>15</u>	Recorder No. <u>6741</u>	Test <u>✓</u> <u>950</u>
Final Shut-In <u>15</u>	(depth) <u>3419</u>	Jars _____
T-On Location <u>9:00</u>	Recorder No. <u>13221</u>	Safety Jt. _____
T-Started <u>11:05</u>	(depth) <u>3449</u>	Circ Sub _____
T-Open <u>13:01</u>	Recorder No. _____	Sampler _____
T-Pulled <u>14:31</u>	(depth) _____	Straddle _____
T-Out <u>16:07</u>	Initial Opening <u>30</u>	Ext. Packer _____
	Initial Shut-In <u>30</u>	Shale Packer _____
	Final Flow <u>15</u>	Ruined Packer _____
	Final Shut-In <u>15</u>	Mileage <u>150</u> <u>150</u>
	T-On Location <u>9:00</u>	Sub Total: <u>1100</u>
	T-Started <u>11:05</u>	Std. By _____
	T-Open <u>13:01</u>	Other _____
	T-Pulled <u>14:31</u>	Total: _____
	T-Out <u>16:07</u>	

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 22854

9/04

Test Ticket

Well Name & No. <u>Mulder #1</u>	Test No. <u>2</u>	Date <u>6-18-05</u>
Company <u>Great Eastern</u>	Zone Tested <u>Ar buckle</u>	
Address <u>PO Drawer 2436, Midland, Tx 70702</u>	Elevation <u>2212</u>	KB <u>2207</u> GL
Co. Rep / Geo. <u>Kitt Noah</u>	Cont. <u>WW Drilling #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>27</u> Twp. <u>5s</u> Rge. <u>21w</u> Co. <u>Norton</u> State <u>Ks</u>		
No. of Copies <u>Reg</u> Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____		

Interval Tested <u>3621 - 3628</u>	Initial Str Wt./Lbs. <u>46,000</u>	Unseated Str Wt./Lbs. <u>49,000</u>
Anchor Length <u>7'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>52,000</u>
Top Packer Depth <u>3616</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3621</u>	Hole Size 7 7/8" ☒	Rubber Size 6 3/4" ☒
Total Depth <u>3628</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>121</u>
Mud Wt. <u>9.3</u> LCM <u>1#</u> Vis. <u>48</u> WL <u>7.6</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3512</u>
Blow Description <u>IFP- Strong Blow BOB in 3 1/2 min.</u>		
<u>ISI- Blowback Built to 7/8" 3 1/2 min</u>		
<u>FFP- Strong Blow BOB in 3 1/2 min.</u>		
<u>FSI- Blowback Built to 3"</u>		

Recovery - Total Feet <u>1050</u>	GIP <u>210</u>	Ft. in DC _____	Ft. in DP _____
Rec. <u>300</u>	Feet of <u>Watery Oil</u>	%gas <u>80</u>	%oil <u>20</u> %water _____ %mud _____
Rec. <u>300</u>	Feet of <u>Oil Cut Water</u>	%gas <u>15</u>	%oil <u>85</u> %water _____ %mud _____
Rec. <u>450</u>	Feet of <u>Salt water</u>	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet of _____	%gas _____	%oil _____ %water _____ %mud _____
BHT _____ °F Gravity <u>24</u>	°API D @ <u>85</u>	°F Corrected Gravity <u>22</u> °API _____	
RW <u>115</u> @ <u>86</u> °F	Chlorides <u>53,000</u> ppm	Recovery _____	Chlorides <u>2,000</u> ppm System

	AK-1	Alpine	PSI	Recorder No.	Test	950
(A) Initial Hydrostatic Mud		<u>1803</u>		<u>6741</u>	☒	
(B) First Initial Flow Pressure		<u>80</u>		(depth) <u>3622</u>	Jars	
(C) First Final Flow Pressure		<u>189</u>		Recorder No.	Safety Jt.	
(D) Initial Shut-In Pressure		<u>1036</u>		(depth)	Circ Sub	
(E) Second Initial Flow Pressure		<u>224</u>		Recorder No.	Sampler	
(F) Second Final Flow Pressure		<u>513</u>		(depth)	Straddle	
(G) Final Shut-In Pressure		<u>1023</u>		Initial Opening <u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud		<u>1808</u>		Initial Shut-In <u>30</u>	Shale Packer	

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Approved By _____

Our Representative J. Mc Leman

Final Flow	<u>30</u>
Final Shut-In	<u>30</u>
T-On Location	<u>8:33</u>
T-Started	<u>8:52</u>
T-Open	<u>10:40</u>
T-Pulled	<u>12:40</u>
T-Out	<u>15:00</u>

Ruined Packer	<u>150</u>
Mileage	<u>150 round trip</u>
Sub Total:	<u>1100</u>
Std. By	_____
Other	_____
Total:	_____