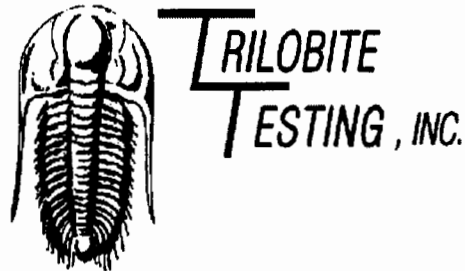


15-137-20434

31-5S-21W



DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

P. O. Box 2436
Midland TX 79702

ATTN: Bill Robinson

31-5S-21W Norton

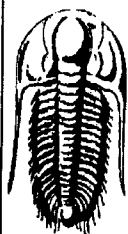
Norman #1

Start Date: 2005.04.22 @ 03:33:32

End Date: 2005.04.22 @ 12:20:47

Job Ticket #: 21539 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

P. O. Box 2436
Midland TX 79702

ATTN: Bill Robinson

Norman #1

31-5S-21W Norton

Job Ticket: 21539

DST#: 1

Test Start: 2005.04.22 @ 03:33:32

GENERAL INFORMATION:

Formation: L/KC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:51:17

Time Test Ended: 12:20:47

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: 3528.00 ft (KB) To 3576.00 ft (KB) (TVD)

Total Depth: 3576.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2320.00 ft (KB)

2310.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6625

Inside

Press@RunDepth: 943.71 psig @ 3529.00 ft (KB)

Start Date: 2005.04.22

End Date:

2005.04.22

Start Time: 03:33:35

End Time:

12:20:47

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2005.04.22 @ 06:46:47

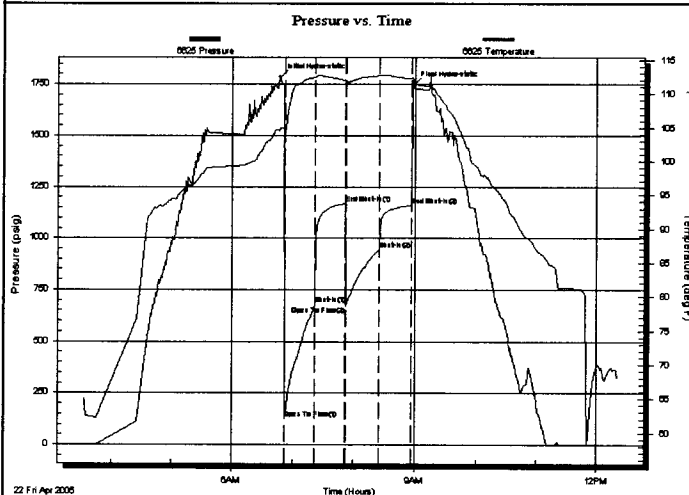
Time Off Btm: 2005.04.22 @ 08:58:02

TEST COMMENT: IF; Strong blow off btm in 2 1/2 mins

IS; No blow

FF; Strong blow off btm in 3 mins

FS; No blow



PRESSURE SUMMARY

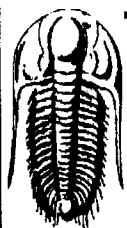
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1784.85	104.81	Initial Hydro-static
5	126.90	104.46	Open To Flow (1)
35	682.17	112.49	Shut-In(1)
65	1168.66	112.02	End Shut-In(1)
65	669.35	111.87	Open To Flow (2)
98	943.71	112.69	Shut-In(2)
130	1160.92	112.26	End Shut-In(2)
132	1746.90	111.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1740.00	Wtr	24.41
300.00	MCW 70%wtr 30%mud	4.21

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Norman #1

P. O. Box 2436
Midland TX 79702

31-5S-21W Norton

Job Ticket: 21539

DST#: 1

ATTN: Bill Robinson

Test Start: 2005.04.22 @ 03:33:32

Tool Information

Drill Pipe:	Length: 3528.00 ft	Diameter: 3.80 inches	Volume: 49.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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: 50000.00 lb
		Total Volume: 49.49 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3528.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

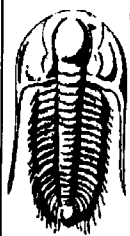
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3514.00	
Hydraulic tool	5.00			3519.00	
Packer	5.00			3524.00	19.00 Bottom Of Top Packer
Packer	4.00			3528.00	
Stubb	1.00			3529.00	
Recorder	0.00	6625	Inside	3529.00	
Perforations	9.00			3538.00	
Change Over Sub	1.00			3539.00	
Anchor	31.00			3570.00	
Change Over Sub	1.00			3571.00	
Recorder	0.00	13309	Outside	3571.00	
Bullnose	5.00			3576.00	48.00 Bottom Packers & Anchor

Total Tool Length: 67.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Norman #1

P. O. Box 2436
Midland TX 79702

31-5S-21W Norton

Job Ticket: 21539

DST#: 1

ATTN: Bill Robinson

Test Start: 2005.04.22 @ 03:33:32

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:

60000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1740.00	Wtr	24.408
300.00	MCW 70%w tr 30%mud	4.208

Total Length: 2040.00 ft Total Volume: 28.616 bbl

Num Fluid Samples: 0

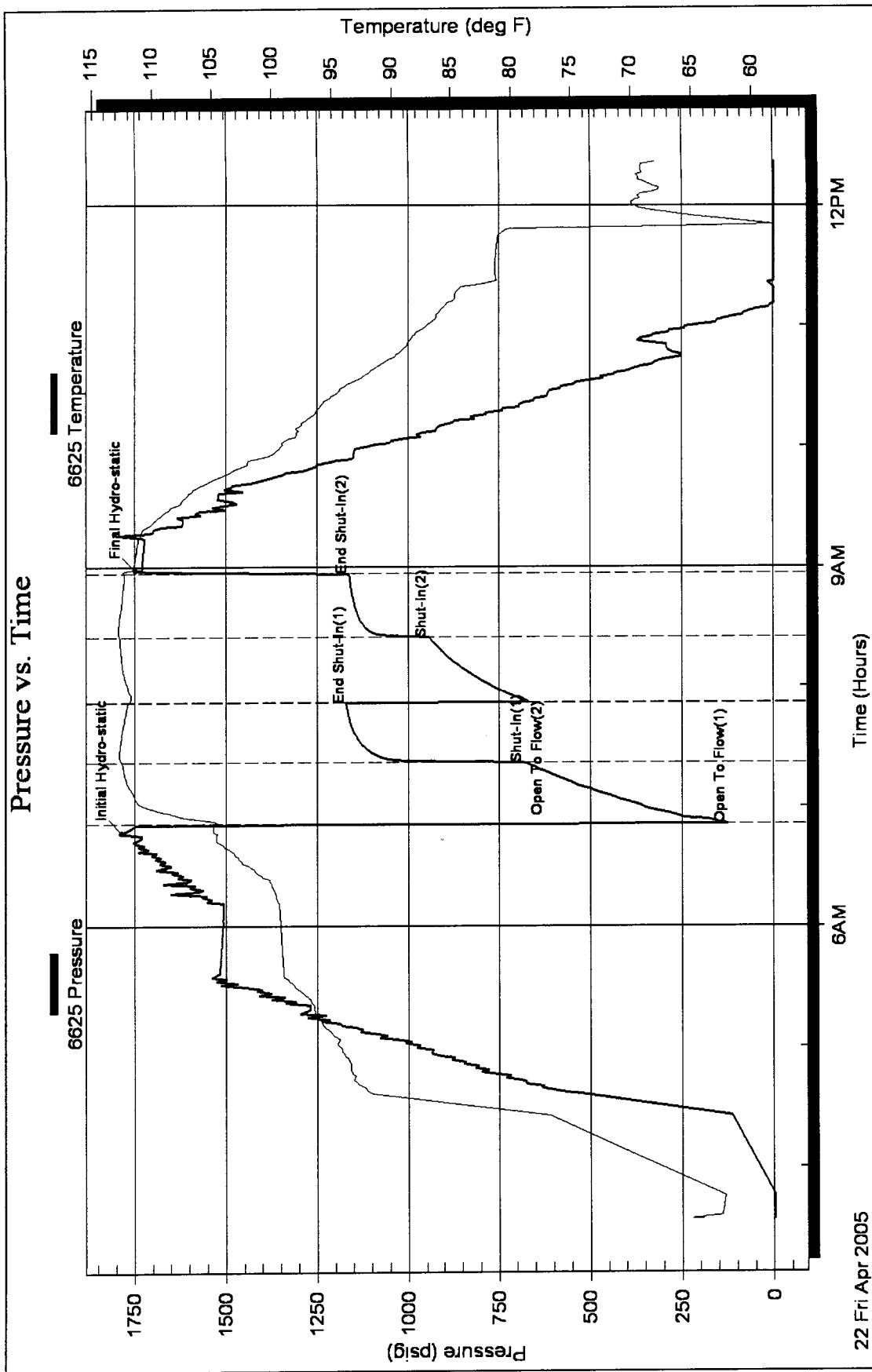
Num Gas Bombs: 0

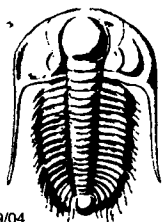
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .13 @ 70 Deg = 60,000 Chlorides





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21539

Test Ticket

Well Name & No. Norman #1 Test No. 1 Date 4-22-05
Company Great Eastern Energy + Development Zone Tested L/KC
Address P.O. Drawer 2436 Midland, TX. 79702 Elevation 2320 KB 2310 GL
Co. Rep / Geo. Bill Robinson Cont. Big Three #1 Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 31 Twp. 5th S Rge. 21^W Co. Norton State Ks.
No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3528 - 3576 Initial Str Wt./Lbs. 35,000 Unseated Str Wt./Lbs. 43,000
Anchor Length 48' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000
Top Packer Depth 3523 Tool Weight 2,500
Bottom Packer Depth 3528 Hole Size 7 7/8" Rubber Size 6 3/4"
Total Depth 3576 Wt. Pipe Run _____ Drill Collar Run _____
Mud Wt. 9.2 LCM — Vis. 65 WL 8.0 Drill Pipe Size 4 1/2" XH Ft. Run 3528'

Blow Description

IF: Strong blow off bttm 2 1/2 mins. ISI: No blow
FF: Strong blow off bttm 3 mins. FSI: No blow

Recovery - Total Feet 2040' GIP — Ft. in DC — Ft. in DP 2040'
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
Rec. 300' Feet of MCW %gas _____ %oil 70 %water 30 %mud
Rec. 1740' Feet of Wtr %gas _____ %oil 100 %water _____ %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
BHT 112° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
RW .13 @ 70° °F Chlorides 60,000 ppm Recovery _____ Chlorides 2,000 ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1784</u> PSI	Recorder No. <u>6625</u>	Test <u>950</u>	
(B) First Initial Flow Pressure	<u>126</u> PSI	(depth) <u>3529</u>	Jars _____	
(C) First Final Flow Pressure	<u>682</u> PSI	Recorder No. <u>13309</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure	<u>1168</u> PSI	(depth) <u>3571</u>	Circ Sub <u>X</u> <u>N/C</u>	
(E) Second Initial Flow Pressure	<u>669</u> PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure	<u>943</u> PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure	<u>1160</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>1746</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____	

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Approved By _____

Our Representative Rod Steinbrink

Final Flow	<u>30</u>	Ruined Packer _____
Final Shut-In	<u>30</u>	Mileage <u>1 way 145.36</u>
T-On Location	<u>0200</u>	Sub Total: <u>1086</u>
T-Started	<u>0333</u>	Std. By <u>2 1/2 Hrs. 75</u>
T-Open	<u>0651</u>	Other _____
T-Pulled	<u>0856</u>	Total: <u>1161</u>
T-Out	<u>1220 pm</u>	

CHART PAGE

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

