

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Kevin Butler

4 7s 21w Graham KS

Greving #1

Start Date: 2002.05.19 @ 09:03:17

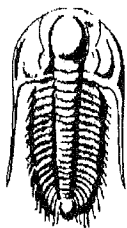
End Date: 2002.05.19 @ 15:37:16

Job Ticket #: 16294 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

Box 150
Bogue, KS 67625

ATTN: Kevin Butler

Greiving #1

4 7s 21w Graham KS

Job Ticket: 16294

DST#: 1

Test Start: 2002.05.19 @ 09:03:17

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:59:46

Time Test Ended: 15:37:16

Test Type: Conventional Bottom Hole

Tester: Paul Simpson

Unit No: 16

Interval: **3348.00 ft (KB) To 3365.00 ft (KB) (TVD)**

Total Depth: 3365.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2196.00 ft (KB)

2191.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **3024** Inside

Press@RunDepth: 81.34 psig @ 3349.01 ft (KB)

Start Date: 2002.05.19

End Date:

2002.05.19

Start Time: 09:03:17

End Time:

15:37:16

Capacity: 7000.00 psig

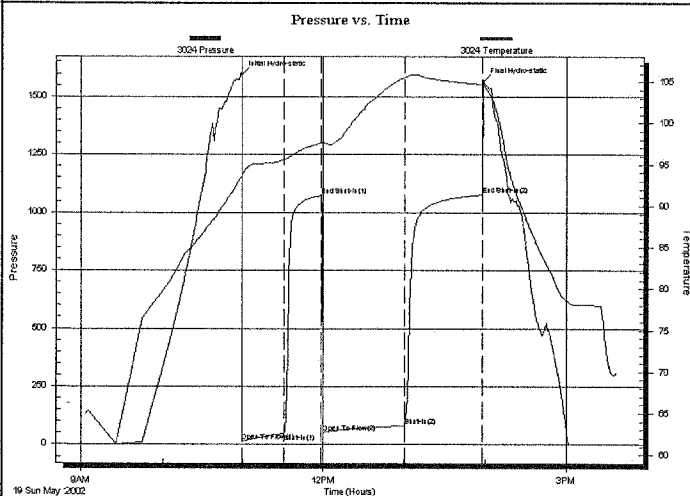
Last Calib.: 2002.05.19

Time On Btm: 2002.05.19 @ 10:59:16

Time Off Btm: 2002.05.19 @ 13:59:16

TEST COMMENT: IF- Weak blow building to 3"

FF- Surface blow building to 4"



PRESSURE SUMMARY

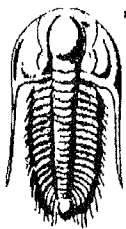
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1594.64	93.61	Initial Hydro-static
1	14.13	93.82	Open To Flow (1)
32	48.65	95.61	Shut-In (1)
60	1073.01	97.60	End Shut-In (1)
61	52.00	97.66	Open To Flow (2)
121	81.34	105.52	Shut-In (2)
179	1076.13	104.69	End Shut-In (2)
180	1566.04	104.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	muddy water	0.30
65.00	water cut mud 10% water 90% mud	0.37
30.00	muddy oil 10% gas 80% oil 10% mud	0.42
5.00	gassy oil 60% gas 40% oil	0.07

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

Greiving #1

Box 150
Bogue, KS 67625

4 7s 21w Graham KS

Job Ticket: 16294

DST#: 1

ATTN: Kevin Butler

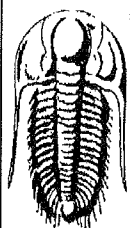
Test Start: 2002.05.19 @ 09:03:17

Tool Information

Drill Pipe:	Length: 3209.00 ft	Diameter: 3.80 inches	Volume: 45.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume:	- bbl	Tool Chased ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3348.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.02 ft			
Tool Length:	36.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3328.00	
S.I. Tool	5.00			3333.00	
HMV	5.00			3338.00	
Packer	5.00			3343.00	21.00 Bottom Of Top Packer
Packer	5.00			3348.00	
Stubb	1.00			3349.00	
Recorder	0.01	3024	Inside	3349.01	
Perforations	11.00			3360.01	
Recorder	0.01	11085	Outside	3360.02	
Bullnose	3.00			3363.02	15.02 Bottom Packers & Anchor
Total Tool Length:		36.02			



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Greiving #1

Box 150
Bogue, KS 67625

4 7s 21w Graham KS

Job Ticket: 16294

DST#: 1

ATTN: Kevin Butler

Test Start: 2002.05.19 @ 09:03:17

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:

85000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.53 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	muddy water	0.295
65.00	water cut mud 10% water 90% mud	0.365
30.00	muddy oil 10%gas 80%oil 10%mud	0.421
5.00	gassy oil 60%gas 40%oil	0.070

Total Length: 160.00 ft

Total Volume: 1.151 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .095 @ 78F

DST Test Number: 1

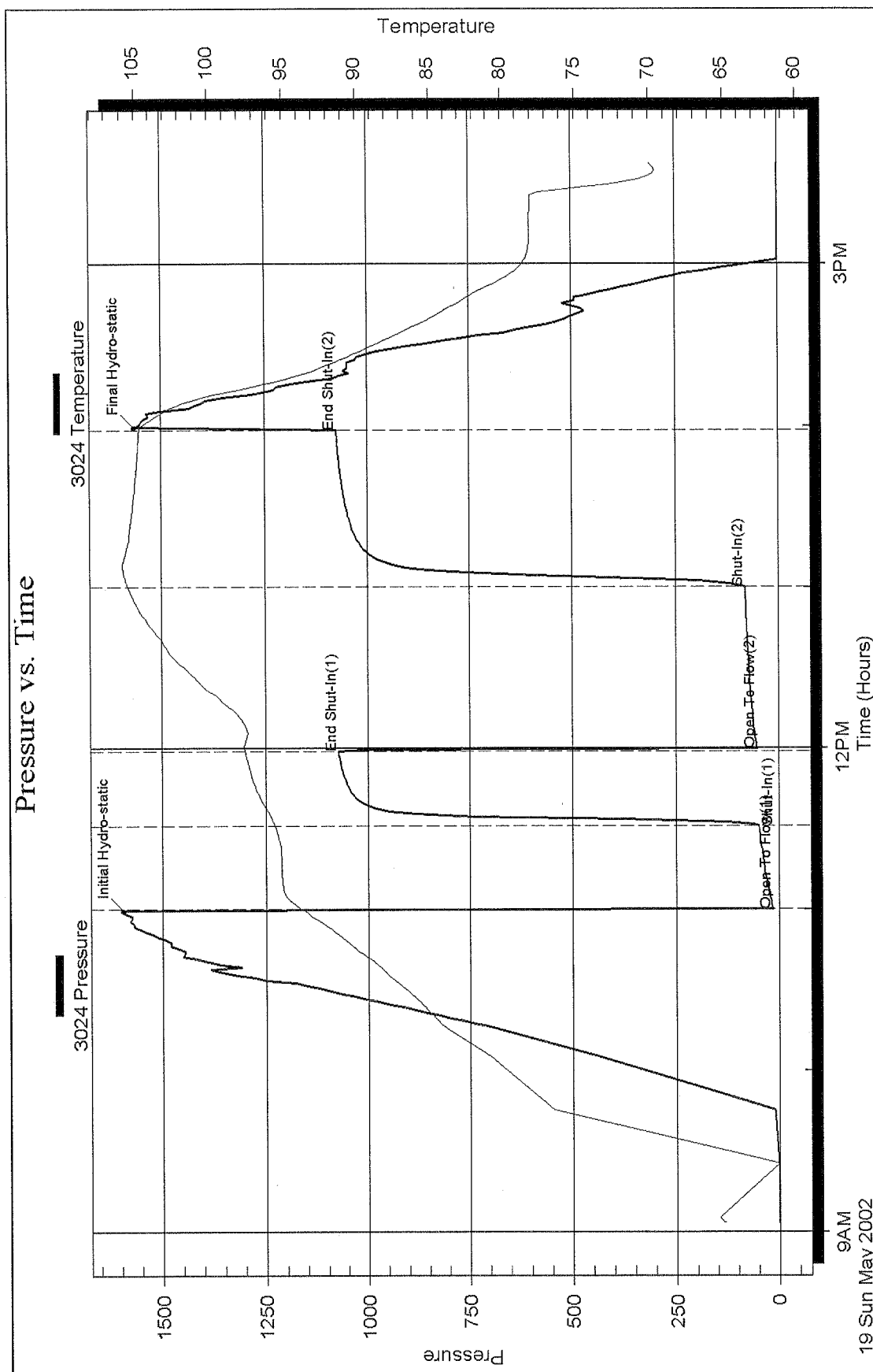
4 7s 21w Graham KS

Great Eastern Energy

Inside

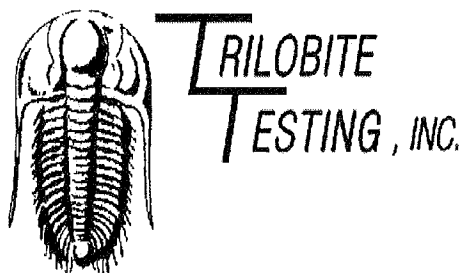
Serial #: 3024

Pressure vs. Time



Ref. No: 16294

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Kevin Butler

4 7s 21w Graham KS

Greving #1

Start Date: 2002.05.19 @ 22:59:02

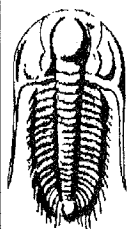
End Date: 2002.05.20 @ 06:09:31

Job Ticket #: 16295 DST #: 2

Trilobite Testing, Inc

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ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
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DRILL STEM TEST REPORT

Great Eastern Energy

Box 150
Bogue, KS 67625

ATTN: Kevin Butler

Greiving #1

4 7s 21w Graham KS

Job Ticket: 16295

DST#: 2

Test Start: 2002.05.19 @ 22:59:02

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:55:01

Time Test Ended: 06:09:31

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: 3396.00 ft (KB) To 3430.00 ft (KB) (TVD)

Total Depth: 3430.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2196.00 ft (KB)

2191.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3024

Inside

Press@RunDepth: 788.50 psig @ 3397.01 ft (KB)

Start Date: 2002.05.19

End Date:

2002.05.20

Start Time: 22:59:02

End Time:

06:09:31

Capacity: 7000.00 psig

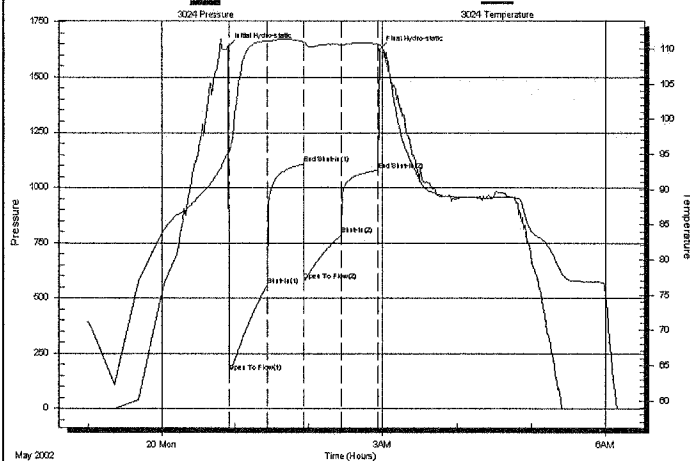
Last Calib.: 2002.05.20

Time On Btm: 2002.05.20 @ 00:54:31

Time Off Btm: 2002.05.20 @ 02:57:01

TEST COMMENT: IFP-strong blow in 1 min
FFP-strong blow in 1 min
times 30-30-30-30
weak blow back on shut-in 1/2" blow

Pressure vs. Time



PRESSURE SUMMARY

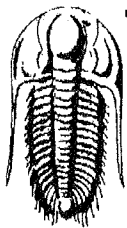
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.75	95.21	Initial Hydro-static
1	166.95	95.34	Open To Flow (1)
32	556.70	111.04	Shut-In (1)
61	1107.21	110.99	End Shut-In (1)
62	577.61	110.97	Open To Flow (2)
92	788.50	110.61	Shut-In (2)
122	1080.44	110.61	End Shut-In (2)
123	1623.68	110.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MGO 5% gas 15% mud 80% oil	1.43
2020.00	clean oil	28.34
600.00	GIP	8.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Greiving #1

Box 150
Bogue, KS 67625

4 7s 21w Graham KS

Job Ticket: 16295

DST#: 2

ATTN: Kevin Butler

Test Start: 2002.05.19 @ 22:59:02

Tool Information

Drill Pipe:	Length: 3279.00 ft	Diameter: 3.80 inches	Volume: 46.00 bbl	Tool Weight:	2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	45000.00 lb	
			Total Volume:	46.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	38000.00 lb	
Depth to Top Packer:	3396.00 ft			Final	38000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	34.02 ft					
Tool Length:	55.02 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			3376.00	
S.I. Tool	5.00			3381.00	
HMV	5.00			3386.00	
Packer	5.00			3391.00	21.00 Bottom Of Top Packer
Packer	5.00			3396.00	
Stubb	1.00			3397.00	
Recorder	0.01	3024	Inside	3397.01	
Perforations	30.00			3427.01	
Recorder	0.01	11085	Outside	3427.02	
Bullnose	3.00			3430.02	34.02 Bottom Packers & Anchor
Total Tool Length:		55.02			



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DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Greiving #1

Box 150
Bogue, KS 67625

4 7s 21w Graham KS

Job Ticket: 16295

DST#: 2

ATTN: Kevin Butler

Test Start: 2002.05.19 @ 22:59:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.52 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MGO 5%gas 15%mud 80%oil	1.432
2020.00	clean oil	28.335
600.00	GIP	8.416

Total Length: 2800.00 ft

Total Volume: 38.183 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

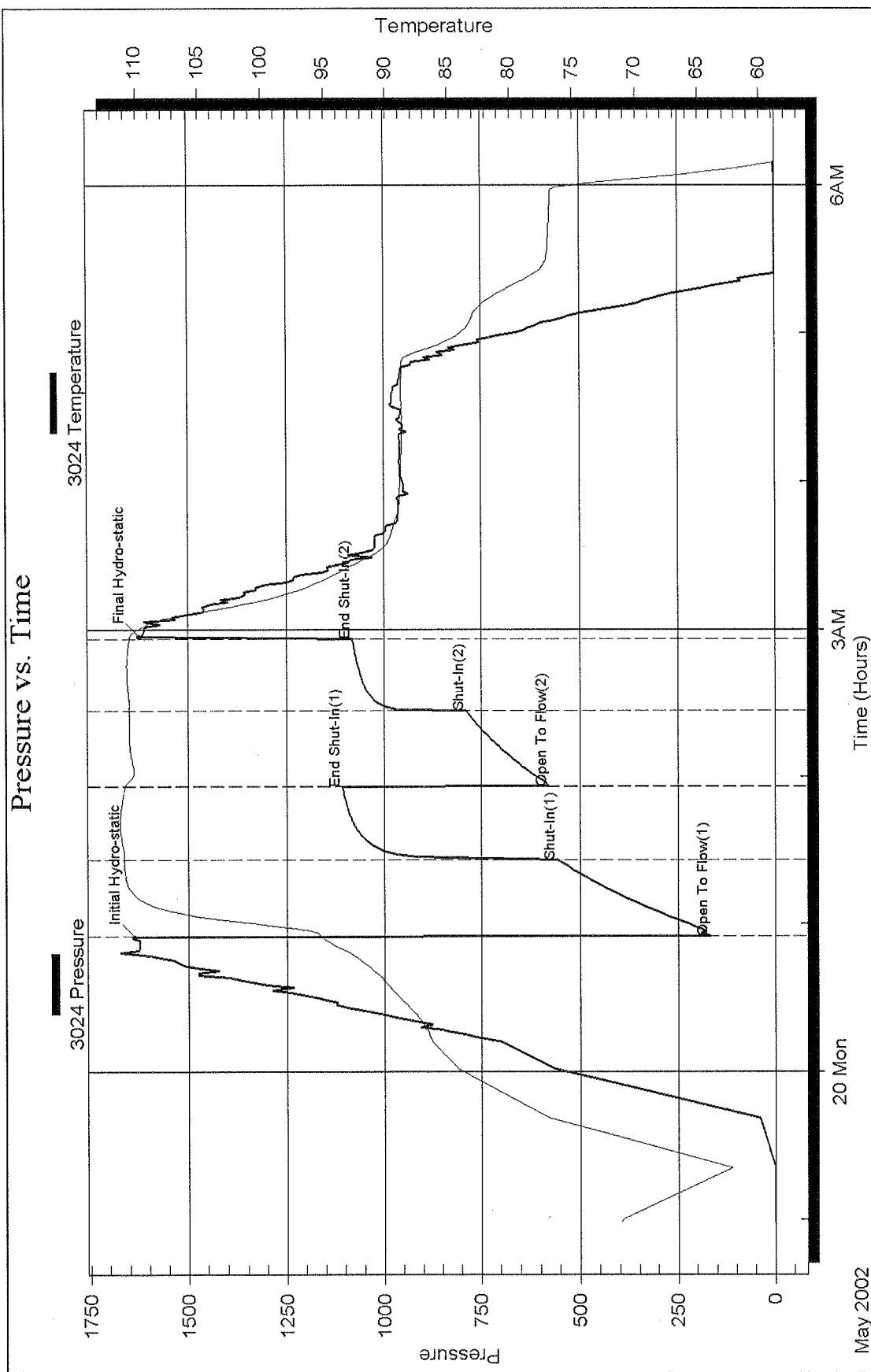
Serial #:

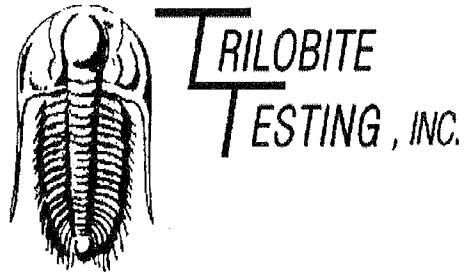
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Kevin Butler

4 7s 21w Graham KS

Greving #1

Start Date: 2002.05.20 @ 12:40:02

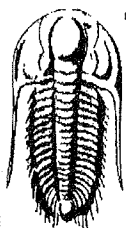
End Date: 2002.05.20 @ 19:42:01

Job Ticket #: 16296 DST #: 3

Trilobite Testing, Inc

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ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
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DRILL STEM TEST REPORT

Great Eastern Energy

Box 150
Bogue, KS 67625

ATTN: Kevin Butler

Greving #1

4 7s 21w Graham KS

Job Ticket: 16296

DST#: 3

Test Start: 2002.05.20 @ 12:40:02

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:19:01

Time Test Ended: 19:42:01

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: 3431.00 ft (KB) To 3455.00 ft (KB) (TVD)

Total Depth: 3455.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2196.00 ft (KB)

2191.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3024

Inside

Press@RunDepth: 675.25 psig @ 3432.01 ft (KB)

Start Date: 2002.05.20

End Date:

2002.05.20

Start Time: 12:40:02

End Time:

19:42:01

Capacity: 7000.00 psig

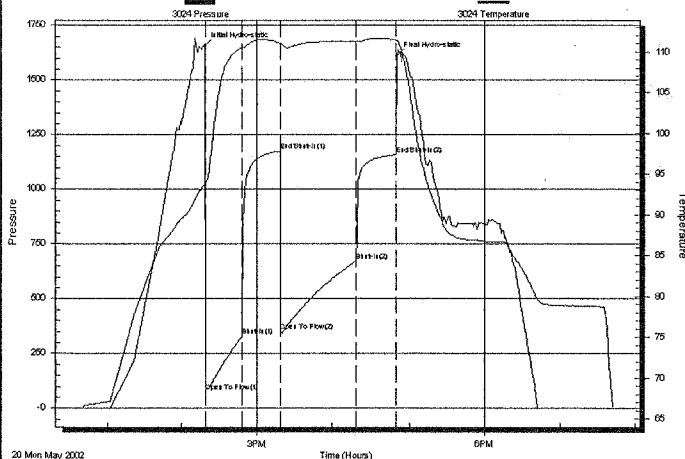
Last Calib.: 2002.05.20

Time On Btm: 2002.05.20 @ 14:18:31

Time Off Btm: 2002.05.20 @ 16:50:01

TEST COMMENT: IFP-strong blow in 2 min
FFP-strong blow thru-out
times 30-30-60-30
strong blow on shut-in - in 25 min

Pressure vs. Time



PRESSURE SUMMARY

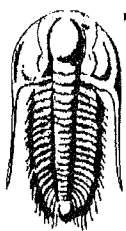
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.50	93.72	Initial Hydro-static
1	76.55	93.83	Open To Flow (1)
30	331.56	110.48	Shut-In (1)
60	1175.69	111.05	End Shut-In (1)
61	351.30	110.99	Open To Flow (2)
120	675.25	111.20	Shut-In (2)
151	1159.12	111.42	End Shut-In (2)
152	1609.36	111.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MGO 10%gas 40%mud 50%oil	1.43
1695.00	clean oil	23.78

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

Box 150
Bogue, KS 67625

ATTN: Kevin Butler

Greiving #1

4 7s 21w Graham KS

Job Ticket: 16296

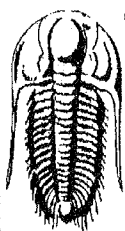
DST#: 3

Test Start: 2002.05.20 @ 12:40:02

Tool Information

Drill Pipe:	Length: 3311.00 ft	Diameter: 3.80 inches	Volume: 46.44 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	47.03 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3431.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.02 ft			
Tool Length:	45.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3411.00	
S.I. Tool	5.00			3416.00	
HMV	5.00			3421.00	
Packer	5.00			3426.00	21.00 Bottom Of Top Packer
Packer	5.00			3431.00	
Stubb	1.00			3432.00	
Recorder	0.01	3024	Inside	3432.01	
Perforations	20.00			3452.01	
Recorder	0.01	11085	Outside	3452.02	
Bullnose	3.00			3455.02	24.02 Bottom Packers & Anchor
Total Tool Length:	45.02				



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Greiving #1

Box 150
Bogue, KS 67625

4 7s 21w Graham KS

Job Ticket: 16296

DST#: 3

ATTN: Kevin Butler

Test Start: 2002.05.20 @ 12:40:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MGO 10%gas 40%mud 50%oil	1.432
1695.00	clean oil	23.776

Total Length: 1875.00 ft

Total Volume: 25.208 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

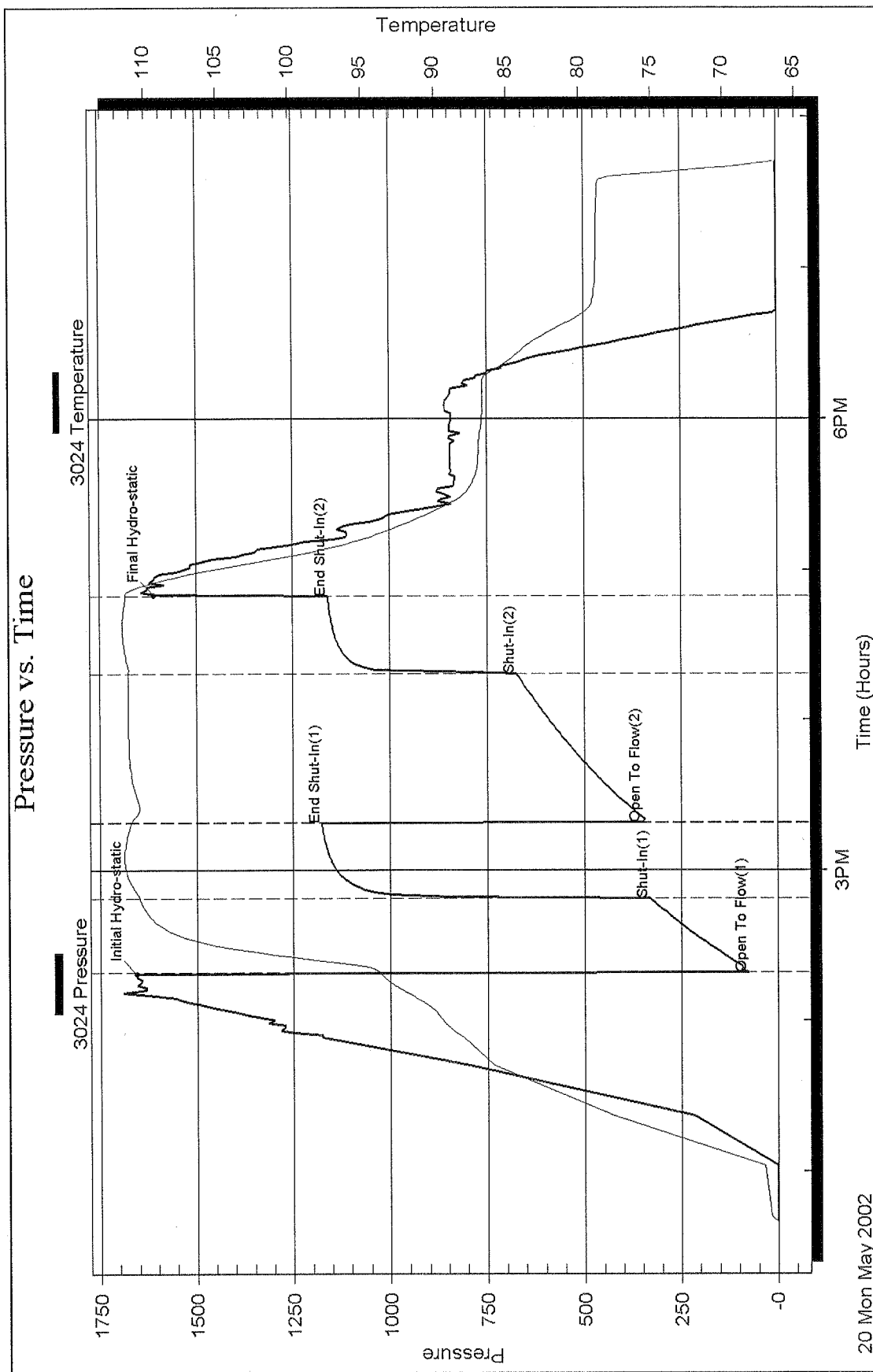
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



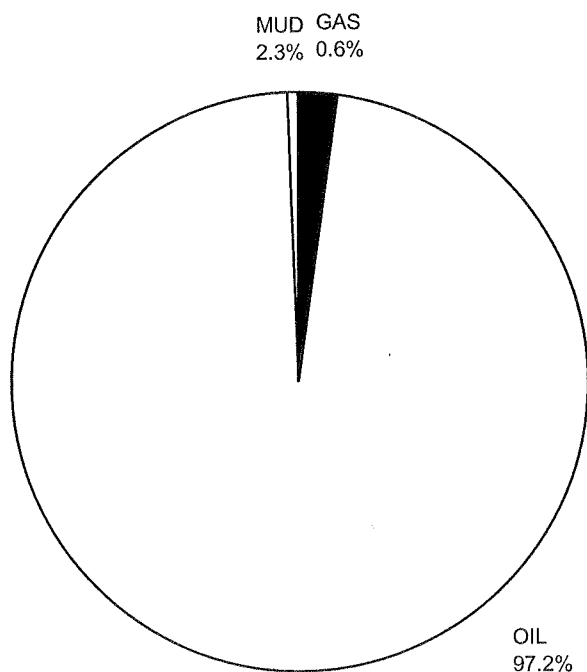
CALCULATED RECOVERY ANALYSIS

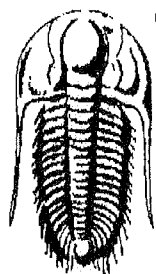
DST 3

TICKET 16296

SAMPLE #		TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRILL	1	1695	0	0	100	1695	0	0	0	0
PIPE	2	60	10	6	50	30	0	0	40	24
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1									
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	120	10	12	50	60	0	0	40	48
COLLARS	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		1875	0	18	0	1785	0	0	0	72

BBL OIL =	24.8229	*	HRS OPEN	0.33	=	BBL/DAY	1805.302
BBL WATER =	0	*			=		0
BBL MUD =	0.576						
BBL GAS =	0.144						





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Kevin Butler

47s 21w Graham KS

Greving #1

Start Date: 2002.05.21 @ 04:13:09

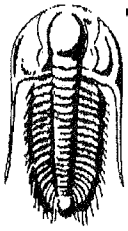
End Date: 2002.05.21 @ 10:38:38

Job Ticket #: 16297 DST #: 4

Trilobite Testing, Inc

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy

Greiving #1

Box 150
Bogue, KS 67625

4 7s 21w Graham KS

Job Ticket: 16297

DST#: 4

ATTN: Kevin Butler

Test Start: 2002.05.21 @ 04:13:09

GENERAL INFORMATION:

Formation: **LKC D-E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:14:08

Time Test Ended: 10:38:38

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: **3458.00 ft (KB) To 3523.00 ft (KB) (TVD)**

Total Depth: 3523.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2196.00 ft (KB)

2191.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3024

Inside

Press@RunDepth: 684.76 psig @ 3463.01 ft (KB)

Start Date: 2002.05.21

End Date:

2002.05.21

Start Time: 04:13:09

End Time:

10:38:38

Capacity:

7000.00 psig

Last Calib.:

2002.05.21

Time On Btm:

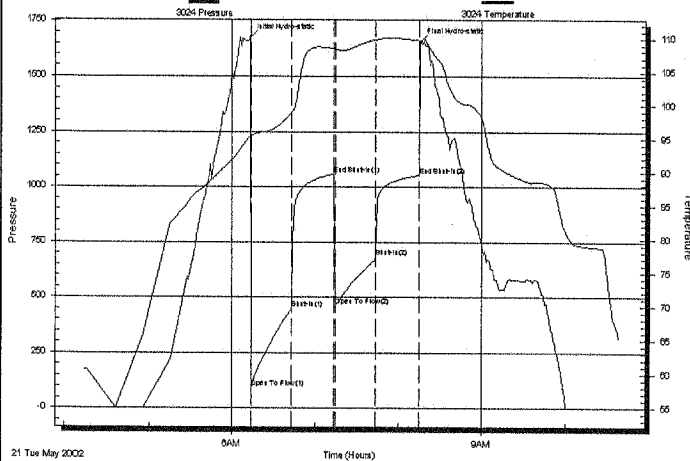
2002.05.21 @ 06:13:38

Time Off Btm:

2002.05.21 @ 08:16:08

TEST COMMENT: IFP-strong blow in 2 min
FFP-strong blow in 4 min
times 30-30-30-30
weak blow on shut-in

Pressure vs. Time



PRESSURE SUMMARY

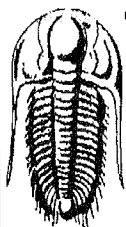
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.36	95.43	Initial Hydro-static
1	91.65	95.54	Open To Flow (1)
30	450.52	99.01	Shut-In (1)
61	1058.49	108.46	End Shut-In (1)
62	462.70	108.43	Open To Flow (2)
91	684.76	109.82	Shut-In (2)
122	1053.78	109.71	End Shut-In (2)
123	1654.16	109.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1060.00	SOCW 1%oil 99%w ater	13.78
180.00	SOCMW 5%oil 40%mud 55%w ater	2.52
225.00	SOCMW 2%oil 10%mud 88%w aterRW.1(3.16"	

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Greiving #1

Box 150
Bogue, KS 67625

4 7s 21w Graham KS

Job Ticket: 16297

DST#: 4

ATTN: Kevin Butler

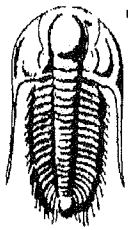
Test Start: 2002.05.21 @ 04:13:09

Tool Information

Drill Pipe:	Length: 3341.00 ft	Diameter: 3.80 inches	Volume: 46.87 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3458.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.02 ft			
Tool Length:	86.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3438.00	
S.I. Tool	5.00			3443.00	
HMV	5.00			3448.00	
Packer	5.00			3453.00	21.00 Bottom Of Top Packer
Packer	5.00			3458.00	
Stubb	1.00			3459.00	
Perforations	3.00			3462.00	
C.O. Sub	1.00			3463.00	
Recorder	0.01	3024	Inside	3463.01	
Blank Spacing	31.00			3494.01	
C.O. Sub	1.00			3495.01	
Perforations	25.00			3520.01	
Recorder	0.01	11085	Outside	3520.02	
Bullnose	3.00			3523.02	65.02 Bottom Packers & Anchor

Total Tool Length: 86.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Greiving #1

Box 150
Bogue, KS 67625

4 7s 21w Graham KS

Job Ticket: 16297

DST#: 4

ATTN: Kevin Butler

Test Start: 2002.05.21 @ 04:13:09

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:

86000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1060.00	SOCW 1%oil 99%w ater	13.776
180.00	SOCMW 5%oil 40%mud 55%w ater	2.525
225.00	SOCMW 2%oil 10%mud 88%w aterRW.1@66l	3.156

Total Length: 1465.00 ft

Total Volume: 19.457 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

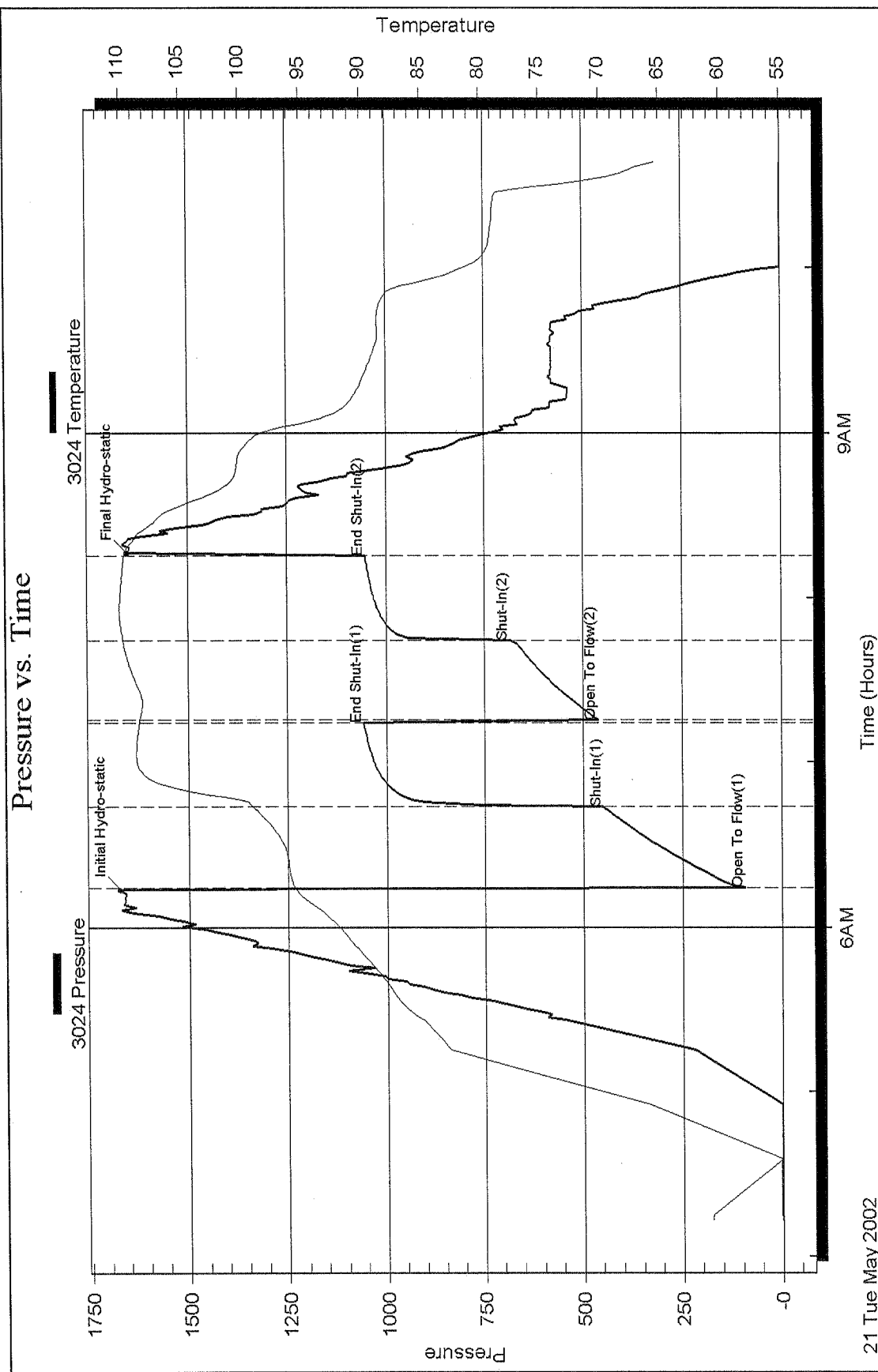
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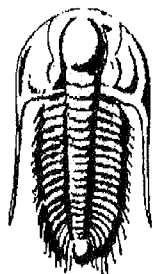
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue, KS 67625

ATTN: Kevin Butler

4 7s 21w Graham KS

Greving #1

Start Date: 2002.05.21 @ 19:29:17

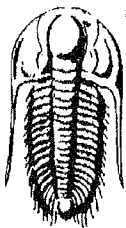
End Date: 2002.05.22 @ 01:40:16

Job Ticket #: 16298 DST #: 5

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

Box 150
Bogue, KS 67625

ATTN: Kevin Butler

Greiving #1

4 7s 21w Graham KS

Job Ticket: 16298

DST#: 5

Test Start: 2002.05.21 @ 19:29:17

GENERAL INFORMATION:

Formation: LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:32:16

Time Test Ended: 01:40:16

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: 3548.00 ft (KB) To 3600.00 ft (KB) (TVD)

Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2196.00 ft (KB)

2191.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3024 Inside

Press@RunDepth: 284.33 psig @ 3550.01 ft (KB)

Start Date: 2002.05.21

End Date:

2002.05.22

Capacity: 7000.00 psig

Last Calib.: 2002.05.22

Start Time: 19:29:17

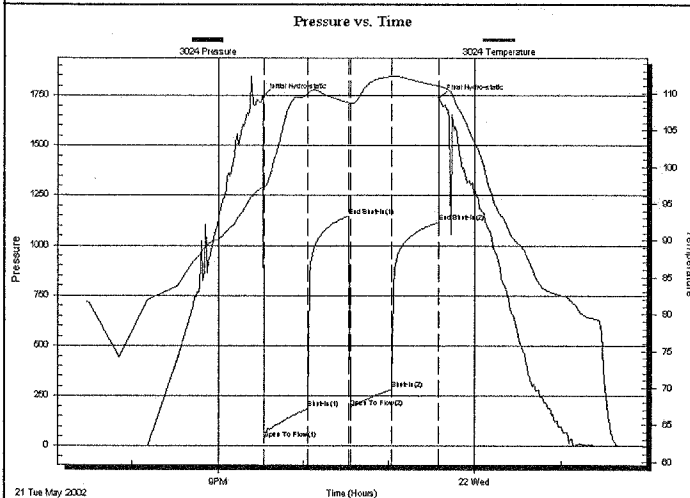
End Time:

01:40:16

Time On Btm: 2002.05.21 @ 21:31:46

Time Off Btm: 2002.05.21 @ 23:35:16

TEST COMMENT: IFP-strong blow in 10 min
FFP-weak to a good blow 1" to 8" blow
times 30-30-30-30
no blow on shut-in



PRESSURE SUMMARY

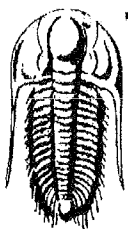
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.62	97.22	Initial Hydro-static
1	34.85	97.32	Open To Flow (1)
32	187.56	110.03	Shut-In (1)
61	1148.07	108.73	End Shut-In (1)
62	192.65	108.71	Open To Flow (2)
91	284.33	112.29	Shut-In (2)
123	1115.92	110.99	End Shut-In (2)
124	1736.43	110.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	water RW .09 @66F	3.96
205.00	SOCMW 1%oil 20%mud 79%water	2.88
5.00	clean oil	0.07

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

Greiving #1

Box 150
Bogue, KS 67625

4 7s 21w Graham KS

Job Ticket: 16298

DST#: 5

ATTN: Kevin Butler

Test Start: 2002.05.21 @ 19:29:17

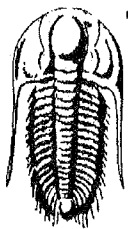
Tool Information

Drill Pipe:	Length: 3434.00 ft	Diameter: 3.80 inches	Volume: 48.17 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 48.76 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3548.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.02 ft			
Tool Length:	73.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3528.00	
S.I. Tool	5.00			3533.00	
HMV	5.00			3538.00	
Packer	5.00			3543.00	21.00 Bottom Of Top Packer
Packer	5.00			3548.00	
Stubb	1.00			3549.00	
C.O. Sub	1.00			3550.00	
Recorder	0.01	3024	Inside	3550.01	
Blank Spacing	31.00			3581.01	
C.O. Sub	1.00			3582.01	
Perforations	15.00			3597.01	
Recorder	0.01	11085	Outside	3597.02	
Bullnose	3.00			3600.02	52.02 Bottom Packers & Anchor

Total Tool Length: 73.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Greiving #1

Box 150
Bogue, KS 67625

4 7s 21w Graham KS

Job Ticket: 16298

DST#: 5

ATTN: Kevin Butler

Test Start: 2002.05.21 @ 19:29:17

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:

95000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	water RW .09 @66F	3.957
205.00	SOCMW 1%oil 20%mud 79%water	2.876
5.00	clean oil	0.070

Total Length: 570.00 ft

Total Volume: 6.903 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

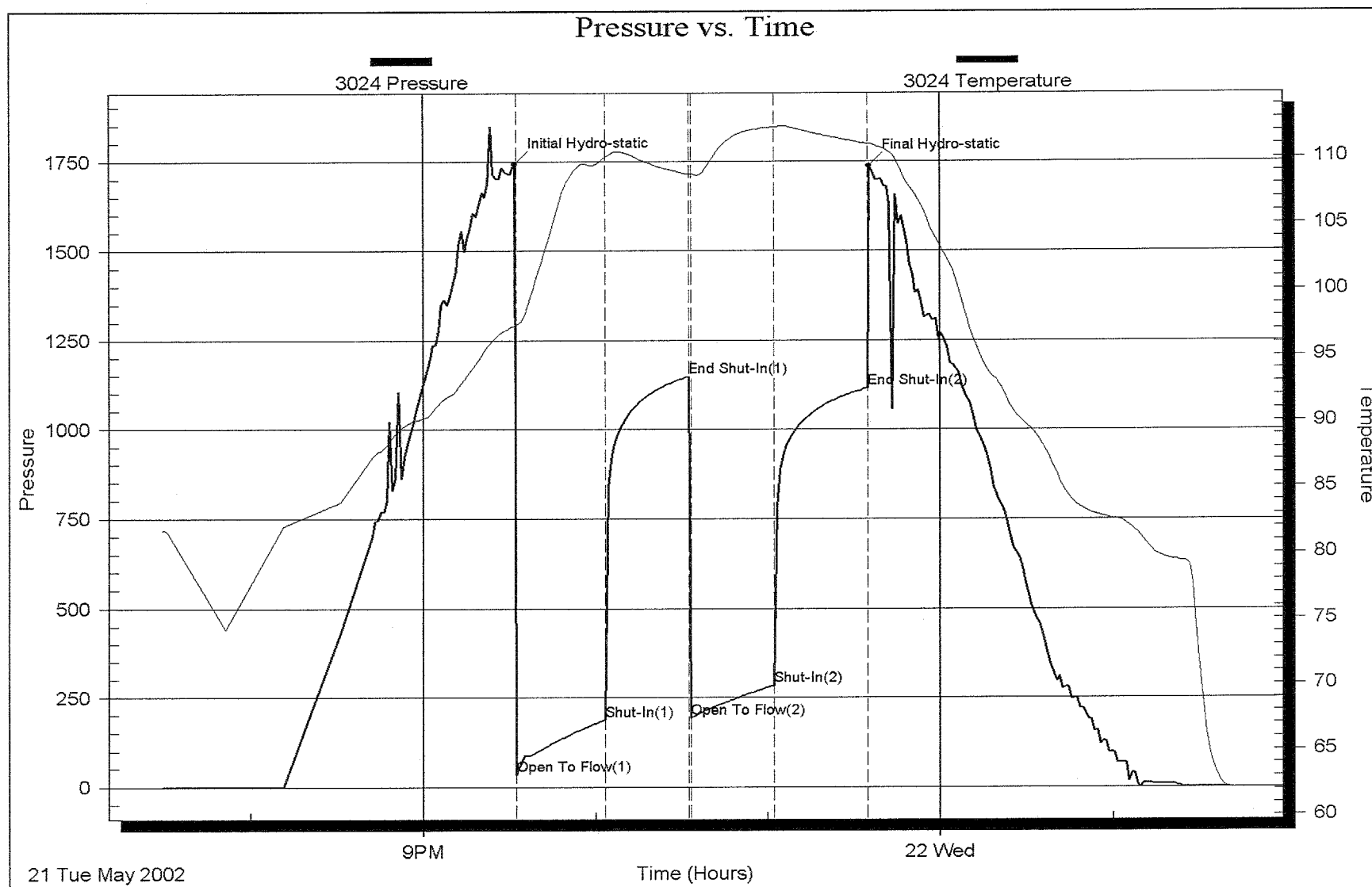
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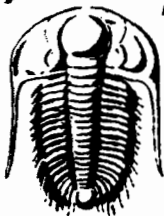
Inside

Great Eastern Energy

4 7s 21w Graham KS

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16294

Test Ticket

Well Name & No. <u>Greening</u>	Test No. <u>1</u>	Date <u>5-19-02</u>
Company <u>Great Eastern Energy Development</u>	Zone Tested <u>Topoka</u>	
Address <u>500 W. Texas #955 Midland TX</u>	Elevation <u>2116</u>	KB <u>2191</u> GL
Co. Rep / Geo. <u>Mike</u>	Cont. <u>Murch #8</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>4</u>	Twp. <u>7S</u>	Rge. <u>21W</u> Co. <u>Graham</u> State <u>TX</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>3348-3365</u>	Initial Str Wt./Lbs. <u>38,000</u>	Unseated Str Wt./Lbs. <u>40,000</u>
Anchor Length <u>17</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>38,000</u>
Top Packer Depth <u>3343</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3348</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>3365</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>125</u>
Mud Wt. <u>8.8</u> LCM <u> </u> Vis. <u>51</u> WL <u>2.6</u>	Drill Pipe Size <u>4 1/2 RA</u>	Ft. Run <u>3209</u>
Blow Description <u>weak surface blow building to 3"</u> <u>ff- surface blow building to 4"</u>		

Recovery — Total Feet <u>160</u>	GIP <u> </u>	Ft. in DC <u>125</u>	Ft. in DP <u>125 35</u>
Rec. <u>5</u> Feet Of <u>gassy oil</u>	<u>60</u> %gas <u>40</u> %oil	%water <u> </u>	%mud <u> </u>
Rec. <u>300</u> Feet Of <u>mud, oil</u>	<u>10</u> %gas <u>80</u> %oil	%water <u>10</u>	%mud <u> </u>
Rec. <u>65</u> Feet Of <u>WCM</u>	%gas <u>15</u> %oil <u>10</u>	%water <u>90</u>	%mud <u> </u>
Rec. <u>60</u> Feet Of <u>MSW</u>	%gas <u> </u> %oil <u>90</u>	%water <u>10</u>	%mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u>	%mud <u> </u>
BHT <u>105</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u>.095</u> @ <u>58</u> °F	Chlorides <u>75,000</u> ppm Recovery	Chlorides <u>1500</u> ppm System	

(A) Initial Hydrostatic Mud	AK-1 <u>1595</u>	Alpine <u> </u>	PSI Recorder No. <u>3024</u>	T-On Location <u>0820</u>
(B) First Initial Flow Pressure	<u>14</u>	PSI (depth) <u>3349</u>	T-Started <u>0820</u>	
(C) First Final Flow Pressure	<u>49</u>	PSI Recorder No. <u>11085</u>	T-Open <u>1057</u>	
(D) Initial Shut-In Pressure	<u>1073</u>	PSI (depth) <u>3360</u>	T-Pulled <u>1355</u>	
(E) Second Initial Flow Pressure	<u>52</u>	PSI Recorder No. <u> </u>	T-Out <u>1537</u>	
(F) Second Final Flow Pressure	<u>81</u>	PSI (depth) <u> </u>	T-Off Location <u>1600</u>	
(G) Final Shut-in Pressure	<u>1076</u>	PSI Initial Opening <u>30</u>	Test <u>X</u> <u>700</u>	
(Q) Final Hydrostatic Mud	<u>1566</u>	PSI Initial Shut-in <u>30</u>	Jars <u> </u>	
		Final Flow <u>60</u>	Safety Joint <u> </u>	
		Final Shut-in <u>60</u>	Straddle <u> </u>	
			Circ. Sub <u> </u>	
			Sampler <u> </u>	
			Extra Packer <u> </u>	
			Elec. Rec. <u>X</u> <u>150</u>	
			Mileage <u>63</u>	
			Other <u> </u>	
			TOTAL PRICE \$ <u>913</u>	

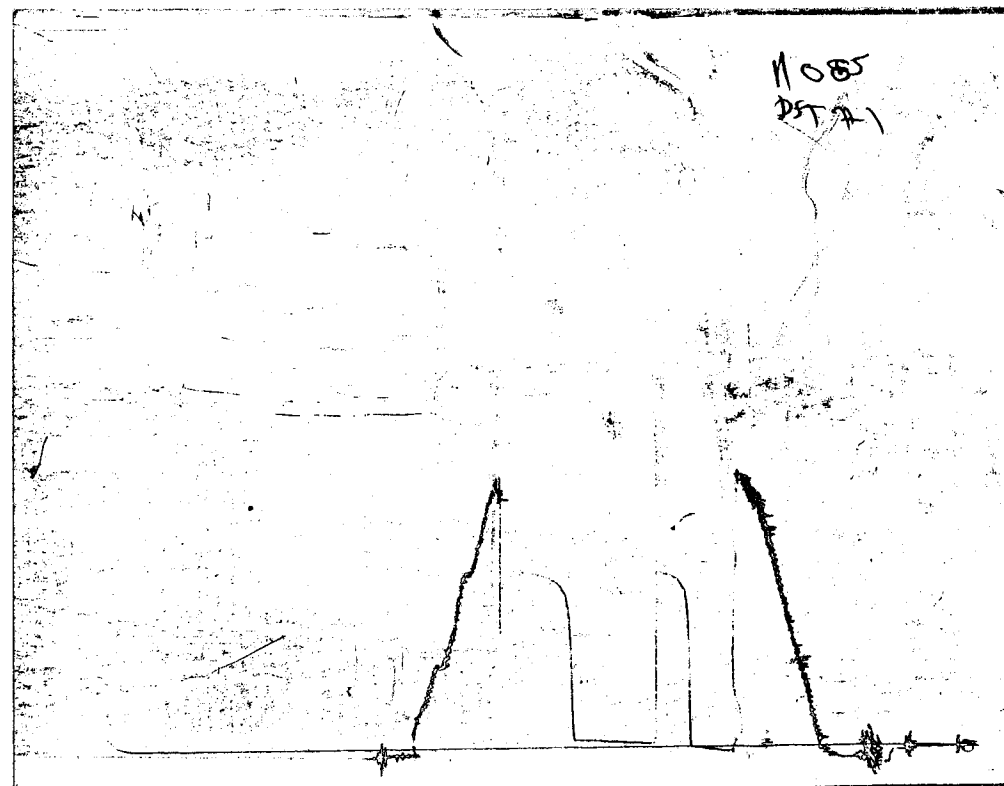
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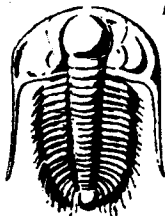
Approved By

Our Representative Paul Simpson

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16295

Test Ticket

Well Name & No. <u>Greuling #1</u>	Test No. <u>2</u>	Date <u>5-19-02</u>
Company <u>GREAT EASTERN Energy Development</u>	Zone Tested <u>TORONTO</u>	
Address <u>P.O. Box 150 Bogue, Ko 67625</u>	Elevation <u>2196</u> KB <u>2191</u> GL	
Co. Rep / Geo. <u>Mike Davignon</u>	Cont. <u>MURFIN 1198</u>	Est. Ft. of Pay <u>-</u> Por. <u>-</u> %
Location: Sec. <u>4</u> Twp. <u>7S</u>	Rge. <u>21W</u>	Co. <u>GRAHAM</u> State <u>Ko</u>
No. of Copies <u>Reg</u>	Distribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested <u>3396-3430</u>	Initial Str Wt/Lbs. <u>38000</u>	Unseated Str Wt/Lbs. <u>38000</u>
Anchor Length <u>34</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>45000</u>
Top Packer Depth <u>3391</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3396</u>	Hole Size — 7 7/8" <u>yes</u>	Rubber Size — 6 3/4" <u>yes</u>
Total Depth <u>3430</u>	Wt. Pipe Run <u>-</u>	Drill Collar Run <u>120</u>
Mud Wt. <u>8.9</u> LCM <u>-</u> Vis. <u>51</u> WL <u>7.6</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3279</u>
Blow Description <u>IFP - STRONG Blow in 1 min</u>		
<u>FFP - STRONG Blow in 1 min</u>		
<u>WEAK Blow Back on shut-in 1/2" Blow</u>		

Recovery — Total Feet <u>2200</u>	GIP <u>600</u>	Ft. in DC <u>120</u>	Ft. in DP <u>2080</u>
Rec. <u>180</u>	Feet Of <u>MGO</u>	5 %gas <u>80</u> %oil	%water <u>15</u> %mud
Rec. <u>2080</u>	Feet Of <u>CLEAN OIL</u>	%gas	%oil
Rec. <u>-</u>	Feet Of <u>-</u>	%gas	%oil
Rec. <u>-</u>	Feet Of <u>-</u>	%gas	%oil
Rec. <u>-</u>	Feet Of <u>-</u>	%gas	%oil
BHT <u>110</u>	°F Gravity <u>32</u>	°API D @ <u>60</u>	°F Corrected Gravity <u>32</u> °API
RW <u>-</u>	@ <u>-</u>	°F Chlorides <u>-</u>	ppm Recovery Chlorides <u>1500</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1623</u>	Alpine	PSI Recorder No. <u>3024</u>	T-On Location <u>2240</u>
(B) First Initial Flow Pressure	<u>166</u>	PSI	(depth) <u>3397</u>	T-Started <u>2259</u>
(C) First Final Flow Pressure	<u>556</u>	PSI Recorder No. <u>11085</u>		T-Open <u>0055</u>
(D) Initial Shut-In Pressure	<u>1106</u>	PSI (depth) <u>3427</u>		T-Pulled <u>0255</u>
(E) Second Initial Flow Pressure	<u>577</u>	PSI Recorder No. <u>-</u>		T-Out <u>0605</u>
(F) Second Final Flow Pressure	<u>788</u>	PSI (depth) <u>-</u>		T-Off Location <u>0630</u>
(G) Final Shut-in Pressure	<u>1080</u>	PSI Initial Opening <u>30</u>	Test <u>700</u>	
(Q) Final Hydrostatic Mud	<u>1612</u>	PSI Initial Shut-in <u>30</u>	Jars <u>-</u>	
		Final Flow <u>30</u>	Safety Joint <u>-</u>	
		Final Shut-in <u>30</u>	Straddle <u>-</u>	

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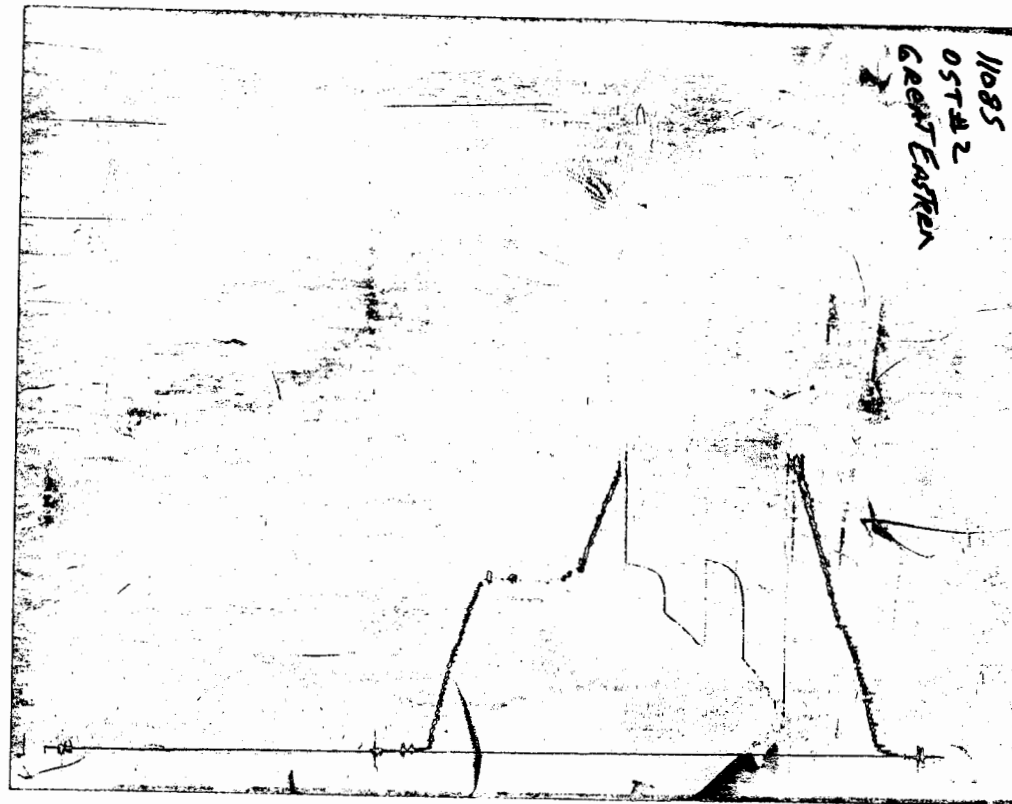
Approved By -

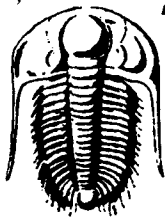
Our Representative RAY SCHWAGER Thankyou

Circ. Sub <u>35</u>
Sampler <u>-</u>
Extra Packer <u>-</u>
Elec. Rec. <u>150</u>
Mileage <u>63</u>
Other <u>-</u>
TOTAL PRICE <u>948</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 16296

Test Ticket

Well Name & No. <u>Grewing #1</u>	Test No. <u>3</u>	Date <u>5-20-02</u>
Company <u>GREAT EASTERN Energy + Develop</u>	Zone Tested <u>LKC</u>	
Address <u>P.O. Box 150 Bogue, Mo 67625</u>	Elevation <u>2196</u>	KB <u>2191</u> GL
Co. Rep / Geo. <u>MIKE DAUIGNON</u>	Cont. <u>MURFIN 1198</u>	Est. Ft. of Pay <u>-</u> Por. <u>-</u> %
Location: Sec. <u>4</u> Twp. <u>7</u>	Rge. <u>21^W</u>	Co. <u>GRAHAM</u> State <u>K</u>
No. of Copies <u>Reg</u>	Distribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested <u>3431-3455</u>	Initial Str Wt./Lbs. <u>38000</u>	Unseated Str Wt./Lbs. <u>44600</u>
Anchor Length <u>24</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>50000</u>
Top Packer Depth <u>3426</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3435</u>	Hole Size — 7 7/8" <u>yes</u>	Rubber Size — 6 3/4" <u>yes</u>
Total Depth <u>3455</u>	Wt. Pipe Run <u>-</u>	Drill Collar Run <u>120</u>
Mud Wt. <u>8.9</u> LCM <u>-</u> Vis. <u>50</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3311</u>
Blow Description <u>IFP - STRONG Blow in 2 min</u>		
<u>FFP - STRONG Blow throughout</u>		
<u>STRONG Blow on shut-in, in 25 min</u>		

Recovery — Total Feet <u>1875</u>	GIP <u>875</u>	Ft. in DC <u>120</u>	Ft. in DP <u>1755</u>
Rec. <u>180</u> Feet Of <u>M60</u>	<u>10</u> %gas <u>50</u> %oil	%water <u>46</u> %mud	
Rec. <u>1695</u> Feet Of <u>CLEAN OIL</u>	%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 <u>111</u> °F Gravity <u>34</u>	°API D@ <u>60</u>	°F Corrected Gravity <u>34</u>	°API
RW <u>-</u> @ <u>-</u> °F Chlorides <u>-</u>	ppm Recovery	Chlorides <u>900</u>	ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1629</u>	Alpine	PSI Recorder No. <u>3024</u>	T-On Location <u>1215</u>
(B) First Initial Flow Pressure	<u>76</u>	PSI (depth)	<u>3432</u>	T-Started <u>1240</u>
(C) First Final Flow Pressure	<u>331</u>	PSI Recorder No.	<u>11085</u>	T-Open <u>1415</u>
(D) Initial Shut-In Pressure	<u>1125</u>	PSI (depth)	<u>3452</u>	T-Pulled <u>1645</u>
(E) Second Initial Flow Pressure	<u>351</u>	PSI Recorder No.	<u>-</u>	T-Out <u>1940</u>
(F) Second Final Flow Pressure	<u>675</u>	PSI (depth)	<u>-</u>	T-Off Location <u>1955</u>
(G) Final Shut-in Pressure	<u>1159</u>	PSI Initial Opening	<u>30</u>	Test <u>✓</u> <u>780</u>
(Q) Final Hydrostatic Mud	<u>1626</u>	PSI Initial Shut-in	<u>30</u>	Jars
		Final Flow	<u>60</u>	Safety Joint
		Final Shut-in	<u>30</u>	Straddle

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Approved By _____

Our Representative RAY SCHWAGER Thank you

Circ. Sub ✓ 35

Sampler _____

Extra Packer _____

Elec. Rec. ✓ 150

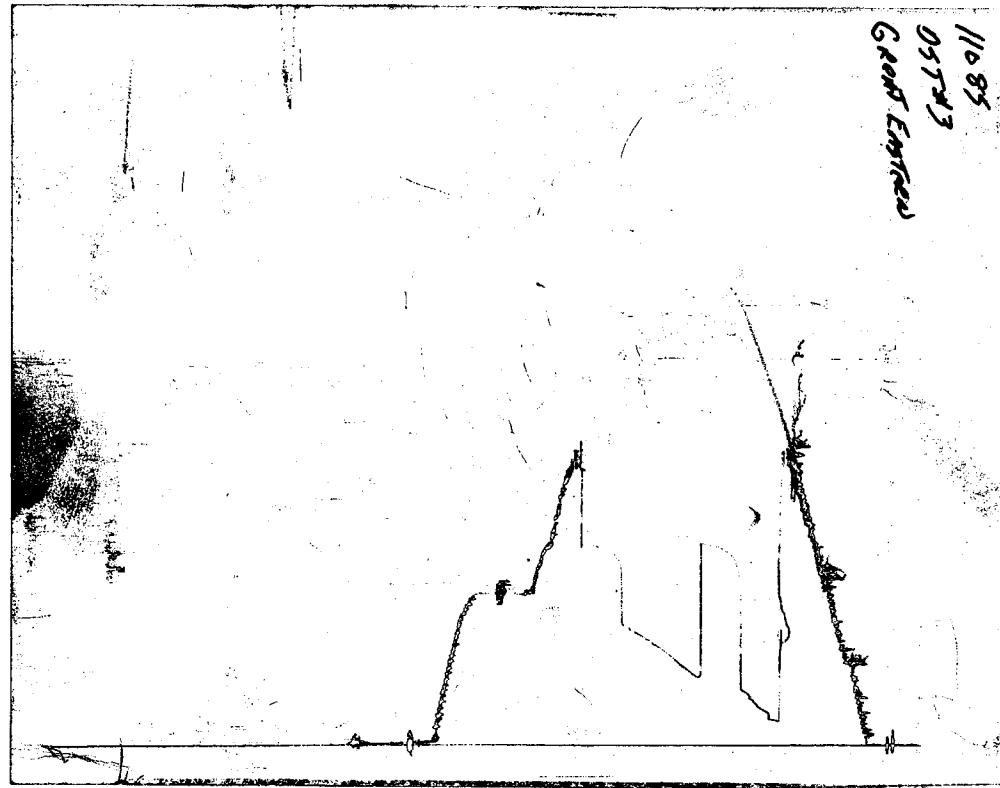
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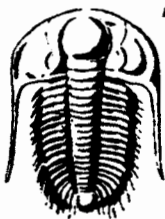
Other _____

TOTAL PRICE ✓ 903

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16297

Test Ticket

Well Name & No. Greving #1 Test No. 4 Date 5-21-02
 Company GREAT EASTERN Energy Development Zone Tested LKC O-E-F
 Address P.O. Box 150 Bogue, Ks. 67625 Elevation 2196 KB 219/GL
 Co. Rep / Geo. Mike Davignon Cont. MURFIN 1198 Est. Ft. of Pay - Por. - %
 Location: Sec. 4 Twp. 7 S Rge. 21 W Co. GRAHAM State K
 No. of Copies Reg Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 3458-3523 Initial Str Wt./Lbs. 38000 Unseated Str Wt./Lbs. 42000
 Anchor Length 65 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 3453 Tool Weight 2200
 Bottom Packer Depth 3458 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3523 Wt. Pipe Run - Drill Collar Run 120
 Mud Wt. 9 LCM - Vis. 51 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3341
 Blow Description IFP - STRONG BLOW IN 2 min
FFP - STRONG BLOW IN 4 min
WEAK BLOW ON shut-in

Recovery — Total Feet 1465 GIP - Ft. in DC 120 Ft. in DP 1345
 Rec. 1060 Feet Of 50 CW %gas 1 %oil 99 %water - %mud -
 Rec. 180 Feet Of 50 CMW %gas 5 %oil 55 %water 40 %mud -
 Rec. 225 Feet Of 50 CMW %gas 2 %oil 88 %water 10 %mud -
 Rec. - Feet Of - %gas - %oil - %water - %mud -
 Rec. - Feet Of - %gas - %oil - %water - %mud -
 BHT 109 °F Gravity - °API D@ - °F Corrected Gravity - °API
 RW .1 @ 66 °F Chlorides 86000 ppm Recovery Chlorides 900 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1664</u>		<u>3024</u>	<u>0345</u>
(B) First Initial Flow Pressure		<u>91</u>	(depth)	<u>3463</u>	<u>0413</u>
(C) First Final Flow Pressure		<u>450</u>	PSI	<u>11085</u>	<u>0610</u>
(D) Initial Shut-In Pressure		<u>1058</u>	(depth)	<u>3520</u>	<u>0810</u>
(E) Second Initial Flow Pressure		<u>462</u>	PSI	<u>-</u>	<u>1030</u>
(F) Second Final Flow Pressure		<u>684</u>	(depth)	<u>-</u>	<u>1050</u>
(G) Final Shut-in Pressure		<u>1053</u>	PSI	Initial Opening <u>30</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud		<u>1647</u>	PSI	Initial Shut-in <u>30</u>	Jars <u>-</u>
				Final Flow <u>30</u>	Safety Joint <u>-</u>
				Final Shut-in <u>30</u>	Straddle <u>-</u>
					Circ. Sub <u>35</u>
					Sampler <u>-</u>
					Extra Packer <u>-</u>
					Elec. Rec. <u>150</u>
					Mileage <u>18</u>
					Other <u>-</u>
					TOTAL PRICE \$ <u>903</u>

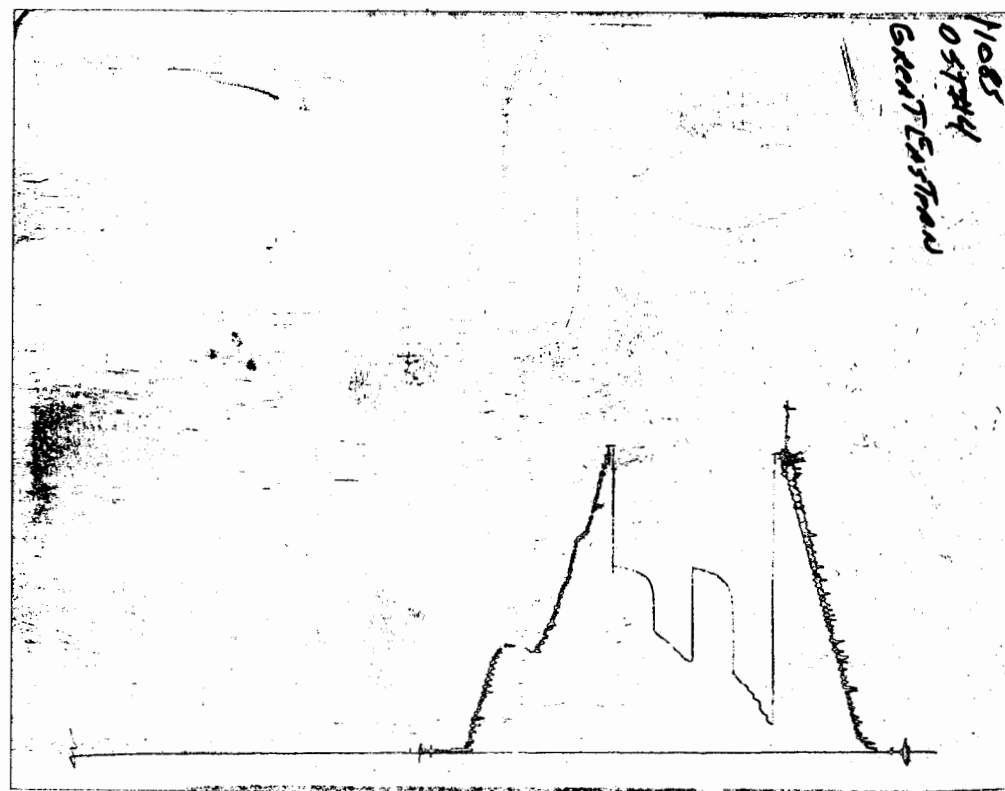
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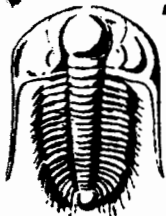
Approved By -

Our Representative RAY SCHWAGER Hanky4

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16298

Test Ticket

Well Name & No. GREVING #1 Test No. 5 Date 5-21-02
 Company GREAT EASTERN ENERGY DEVELOPMENT Zone Tested LKC
 Address P.O. Box 150 Bogue, KS 67625 Elevation 2196 KB 2191 GL
 Co. Rep / Geo. MIKE DADIGNON Cont. MARTIN RIGGS Est. Ft. of Pay - Por. - %
 Location: Sec. 4 Twp. 7S Rge. 21W Co. GRAHAM State K
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3548-3600 Initial Str Wt./Lbs. 39000 Unseated Str Wt./Lbs. 39000
 Anchor Length 52 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000
 Top Packer Depth 3543 Tool Weight 2200
 Bottom Packer Depth 3548 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3600 Wt. Pipe Run - Drill Collar Run 120
 Mud Wt. 9.1 LCM - Vis. 52 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3434
 Blow Description TFP - STRONG Blow in 10 min
FFP - WEAK TO A GOOD BLOW 1" TO 8" BLOW
NO BLOW ON SHUT-IN

Recovery — Total Feet 570 GIP - Ft. in DC 120 Ft. in DP 450
 Rec. 360 Feet Of WATER %gas %oil %water %mud
 Rec. 205 Feet Of SOC MU %gas 1 %oil 79 %water 20 %mud
 Rec. 5 Feet Of CLEAN OIL %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 BHT 111 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW .09 @ 66 °F Chlorides 95000 ppm Recovery Chlorides 1700 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1719</u>	<u>3024</u>	<u>1900</u>
(B) First Initial Flow Pressure		<u>34</u>	PSI (depth) <u>3550</u>	T-Started <u>19</u>
(C) First Final Flow Pressure		<u>187</u>	PSI Recorder No. <u>11085</u>	T-Open <u>2130</u>
(D) Initial Shut-In Pressure		<u>1148</u>	PSI (depth) <u>3597</u>	T-Pulled <u>2330</u>
(E) Second Initial Flow Pressure		<u>192</u>	PSI Recorder No. <u>-</u>	T-Out <u>0135</u>
(F) Second Final Flow Pressure		<u>284</u>	PSI (depth) <u>-</u>	T-Off Location <u>0200</u>
(G) Final Shut-in Pressure		<u>1115</u>	PSI Initial Opening <u>30</u>	Test <u>✓</u> <u>700</u>
(Q) Final Hydrostatic Mud		<u>1698</u>	PSI Initial Shut-in <u>30</u>	Jars _____
			Final Flow <u>30</u>	Safety Joint _____
			Final Shut-in <u>30</u>	Straddle _____

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Approved By _____

Our Representative RAY SCHWAGER THANK YOU

Extra Packer _____
 Elec. Rec. ✓ 150
 Mileage ✓ 18
 Other _____
 TOTAL PRICE \$ ✓ 868

CHART PAGE

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

