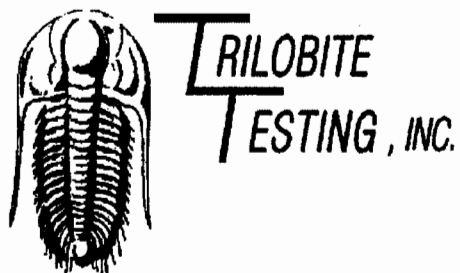


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KANSAS CORPORATION COMMISSION

15-065-22831

SEP 18 2002

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy Develop**

PO Box 150
Bogue, KS 67625

ORIGINAL

ATTN: Mike Davignon

3-7s-21w Graham Ks

Billips Brothers #1

Start Date: 2002.05.10 @ 06:12:43

End Date: 2002.05.10 @ 11:57:42

Job Ticket #: 16287 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

ORIGINAL


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16287

DST#: 1

ATTN: Mike Davignon

Test Start: 2002.05.10 @ 06:12:43

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:07:42

Time Test Ended: 11:57:42

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: 3295.00 ft (KB) To 3325.00 ft (KB) (TVD)

Reference Elevations: 2166.00 ft (KB)

Total Depth: 3325.00 ft (KB) (TVD)

2161.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 3024

Inside

Press@RunDepth: 294.30 psig @ 3296.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2002.05.10

End Date:

2002.05.10

Last Calib.: 2002.05.10

Start Time: 06:12:43

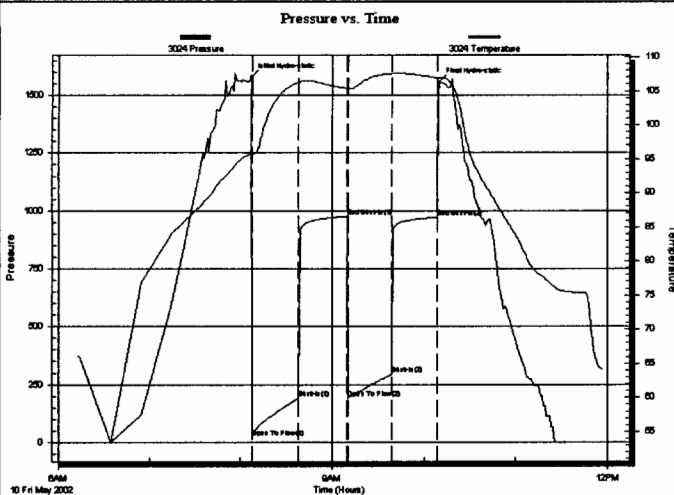
End Time:

11:57:42

Time On Btmr: 2002.05.10 @ 08:07:12

Time Off Btmr: 2002.05.10 @ 10:09:42

TEST COMMENT: FFP-weak to strong blow in 9 min
FFP-weak to a good blow 1" to 9" blow
times 30-30-30-30
had blow back on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1579.37	95.63	Initial Hydro-static
1	19.39	95.69	Open To Flow (1)
31	188.62	106.30	Shut-In (1)
63	975.01	105.34	End Shut-In (1)
63	190.36	105.35	Open To Flow (2)
92	294.30	107.55	Shut-In (2)
122	971.24	106.93	End Shut-In (2)
123	1558.58	106.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	SOCW 2%oil 98%water	3.12
283.00	O&GCMW 3%gas 20%oil 17%mud 60%w3.97	
2.00	oil	0.03

Gas Rates

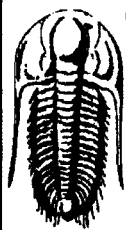
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------

ORIGINAL

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		TOOL DIAGRAM
	Great Eastern Energy Develop PO Box 150 Bogue, KS 67625 ATTN: Mike Davignon	Billips Brothers #1 3-7s-21w Graham Ks Job Ticket: 16287 DST#: 1 Test Start: 2002.05.10 @ 06:12:43	

Tool Information			
Drill Pipe:	Length: 3184.00 ft	Diameter: 3.80 inches	Volume: 44.66 bbl
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl
		Total Volume: 45.25 bbl	
Drill Pipe Above KB:	30.00 ft		
Depth to Top Packer:	3295.00 ft		
Depth to Bottom Packer:	ft		
Interval between Packers:	30.02 ft		
Tool Length:	51.02 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			3275.00		
S.I. Tool	5.00			3280.00		
HMV	5.00			3285.00		
Packer	5.00			3290.00	21.00	Bottom Of Top Packer
Packer	5.00			3295.00		
Stubb	1.00			3296.00		
Recorder	0.01	3024	Inside	3296.01		
Perforations	26.00			3322.01		
Recorder	0.01	11085	Outside	3322.02		
Bullnose	3.00			3325.02	30.02	Bottom Packers & Anchor
Total Tool Length:		51.02				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16287

DST#: 1

ATTN: Mike Davignon

Test Start: 2002.05.10 @ 06:12:43

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.49 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	SOCW 2%oil 98%w ater	3.115
283.00	O&GCMW 3%gas 20%oil 17%mud 60%w ater	3.970
2.00	oil	0.028

Total Length: 585.00 ft

Total Volume:

7.113 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

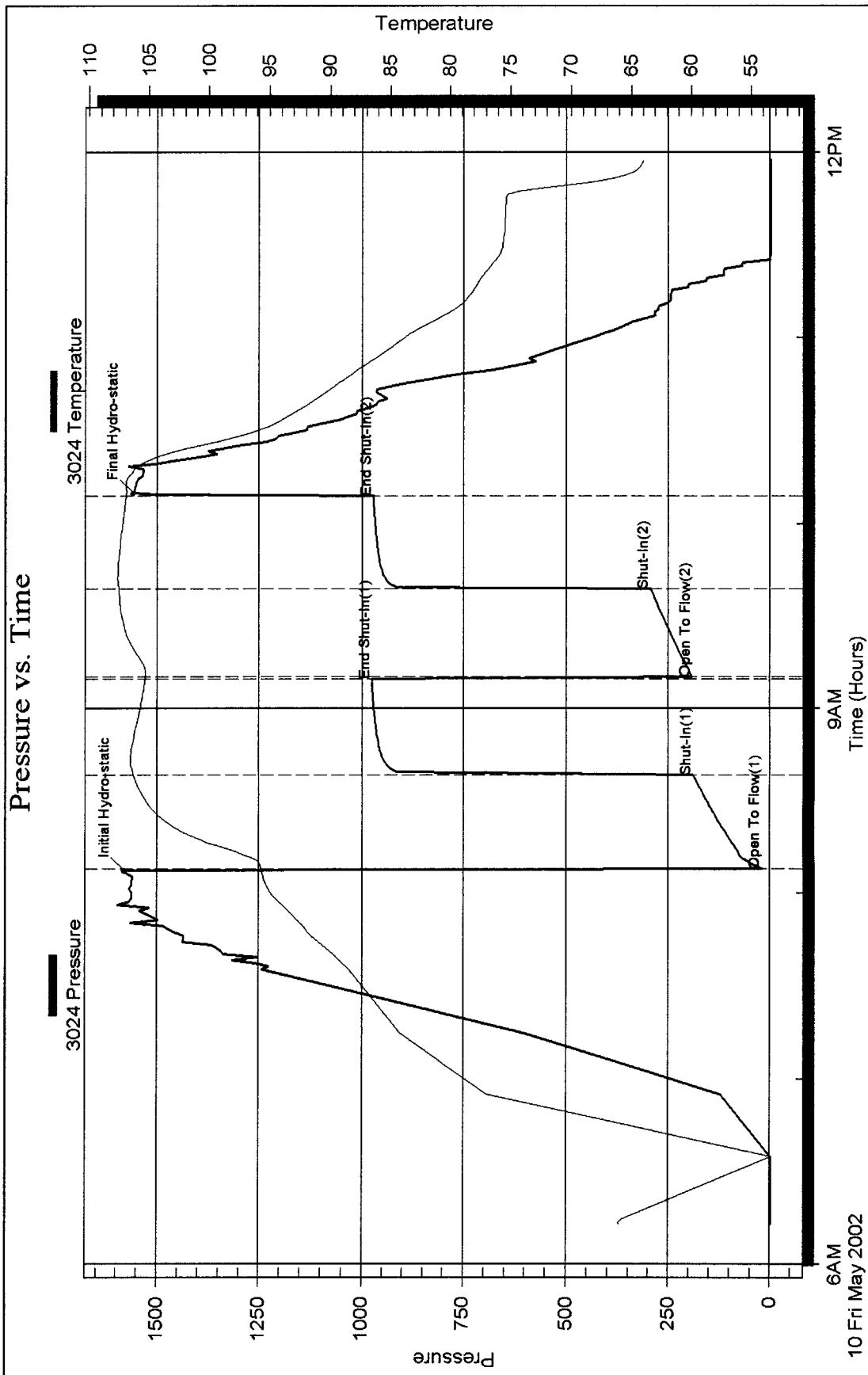
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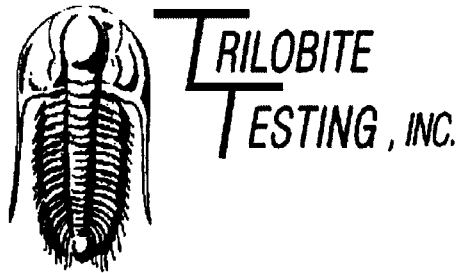
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .09@64

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy Develop**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

3-7s-21w Graham Ks

Billips Brothers #1

Start Date: 2002.05.10 @ 17:12:28

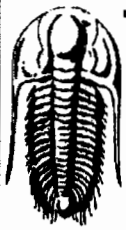
End Date: 2002.05.10 @ 23:12:27

Job Ticket #: 16288 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 Develop

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

Billips Brothers #1

3-7s-21w Graham Ks

Job Ticket: 16288

DST#: 2

Test Start: 2002.05.10 @ 17:12:28

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:56:57

Time Test Ended: 23:12:27

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: **3321.00 ft (KB) To 3345.00 ft (KB) (TVD)**

Total Depth: 3345.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2166.00 ft (KB)

2161.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3024

Inside

Press@RunDepth: 931.57 psig @ 3322.01 ft (KB)

Start Date: 2002.05.10

End Date:

2002.05.10

Start Time: 17:12:28

End Time:

23:12:27

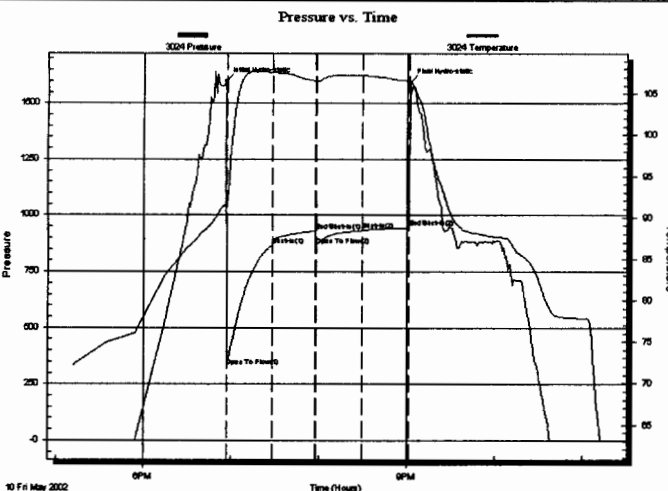
Capacity: 7000.00 psig

Last Calib.: 2002.05.10

Time On Btrr: 2002.05.10 @ 18:56:27

Time Off Btrr: 2002.05.10 @ 21:01:27

TEST COMMENT: FP-strong blow thru-out
FFP-weak to strong in 6 min
times 30-30-30-30
no blow on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.08	91.64	Initial Hydro-static
1	327.59	91.77	Open To Flow (1)
32	865.08	107.57	Shut-In (1)
61	930.03	106.53	End Shut-In (1)
62	867.30	106.52	Open To Flow (2)
93	931.57	107.21	Shut-In (2)
125	944.69	106.55	End Shut-In (2)
125	1596.05	106.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1915.00	water RW .08 @ 65F	25.77
65.00	MW 15% mud 85% water w/show of oil	0.91

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 Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16288

DST#: 2

ATTN: Mike Davignon

Test Start: 2002.05.10 @ 17:12:28

Tool Information

Drill Pipe:	Length: 3186.00 ft	Diameter: 3.80 inches	Volume: 44.69 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: 48000.00 lb
			Total Volume: 45.28 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3321.00 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			3301.00	
S.I. Tool	5.00			3306.00	
HMV	5.00			3311.00	
Packer	5.00			3316.00	21.00 Bottom Of Top Packer
Packer	5.00			3321.00	
Stubb	1.00			3322.00	
Recorder	0.01	3024	Inside	3322.01	
Perforations	20.00			3342.01	
Recorder	0.01	11085	Outside	3342.02	
Bullnose	3.00			3345.02	24.02 Bottom Packers & Anchor
Total Tool Length:	45.02				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16288

DST#: 2

ATTN: Mike Davignon

Test Start: 2002.05.10 @ 17:12:28

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: 110000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.48 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1915.00	water RW .08 @ 65F	25.769
65.00	MW 15% mud 85% water w/show of oil	0.912

Total Length: 1980.00 ft

Total Volume: 26.681 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

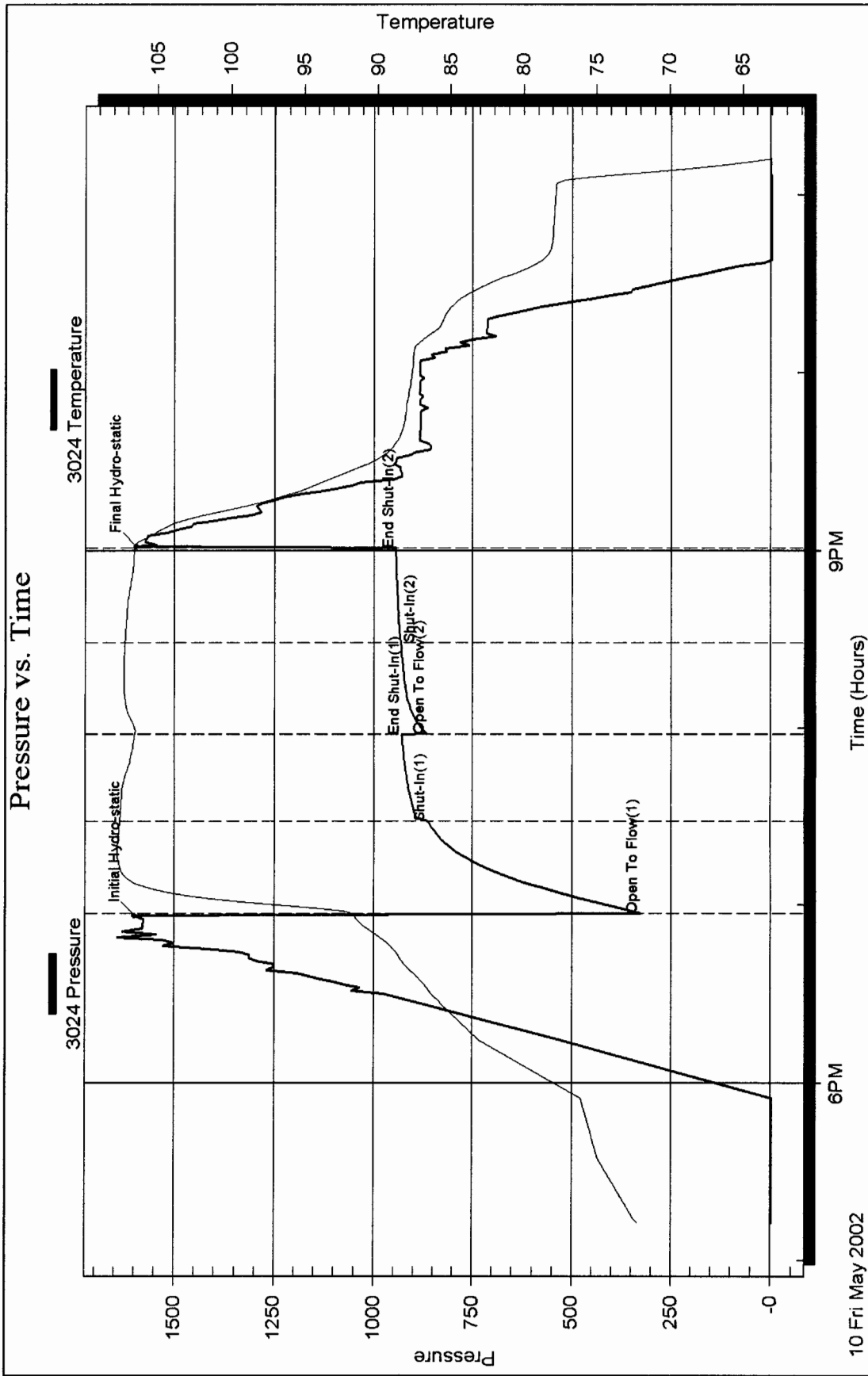
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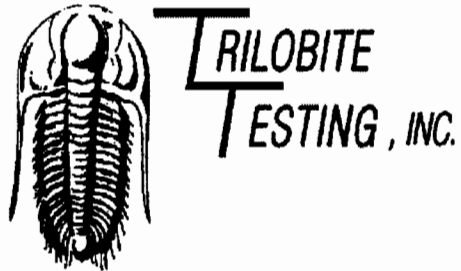
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy Develop**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

3-7s-21w Graham Ks

Billips Brothers #1

Start Date: 2002.05.11 @ 07:58:25

End Date: 2002.05.11 @ 16:01:54

Job Ticket #: 16289 DST #: 3

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 Develop

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

Billips Brothers #1

3-7s-21w Graham Ks

Job Ticket: 16289

DST#: 3

Test Start: 2002.05.11 @ 07:58:25

GENERAL INFORMATION:

Formation: **LKC**

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

Time Tool Opened: 09:51:54

Time Test Ended: 16:01:54

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **16**

Interval: **3346.00 ft (KB) To 3415.00 ft (KB) (TVD)**

Total Depth: **3415.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2166.00 ft (KB)**

2161.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 3024

Inside

Press@RunDepth: **997.36 psig @ 3384.01 ft (KB)**

Start Date: **2002.05.11**

End Date:

2002.05.11

Capacity: **7000.00 psig**

Last Calib.: **2002.05.11**

Start Time: **07:58:25**

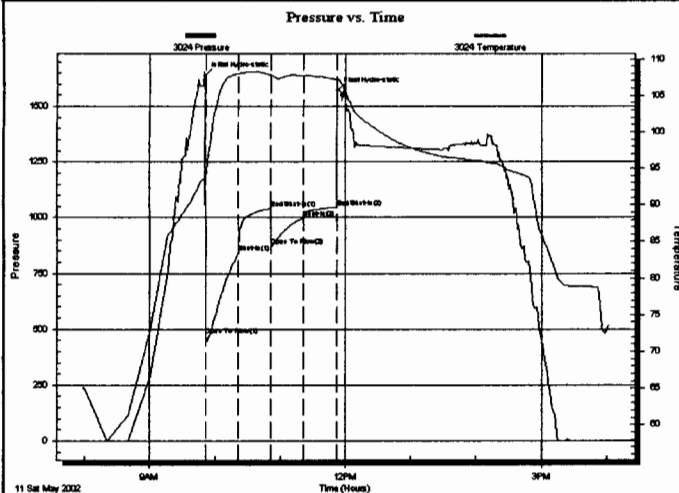
End Time:

16:01:54

Time On Btm: **2002.05.11 @ 09:50:54**

Time Off Btm: **2002.05.11 @ 11:52:24**

TEST COMMENT: **FFP-strong blow thru-out**
FFP-strong blow thru-out GTS in 12 min
Strong blow in 8 min on shut-in
times 30-30-30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.15	93.70	Initial Hydro-static
1	472.89	93.89	Open To Flow (1)
31	842.79	108.02	Shut-In(1)
61	1039.80	107.80	End Shut-In(1)
61	872.27	107.78	Open To Flow (2)
91	997.36	107.73	Shut-In(2)
121	1045.15	107.21	End Shut-In(2)
122	1570.40	107.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MGO 10%gas 20% mud 70%oil	1.43
2620.00	Clean Oil	36.75

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 Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16289

DST#: 3

ATTN: Mike Davignon

Test Start: 2002.05.11 @ 07:58:25

Tool Information

Drill Pipe:	Length: 3215.00 ft	Diameter: 3.80 inches	Volume: 45.10 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: 55000.00 lb
			<u>Total Volume: 45.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3346.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.02 ft			
Tool Length:	90.02 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			3326.00	
S.I. Tool	5.00			3331.00	
HMV	5.00			3336.00	
Packer	5.00			3341.00	21.00 Bottom Of Top Packer
Packer	5.00			3346.00	
Stubb	1.00			3347.00	
Perforations	5.00			3352.00	
C.O. Sub	1.00			3353.00	
Blank Spacing	30.00			3383.00	
C.O. Sub	1.00			3384.00	
Recorder	0.01	3024	Inside	3384.01	
Perforations	28.00			3412.01	
Recorder	0.01	11085	Outside	3412.02	
Bullnose	3.00			3415.02	69.02 Bottom Packers & Anchor

Total Tool Length: 90.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16289

DST#: 3

ATTN: Mike Davignon

Test Start: 2002.05.11 @ 07:58:25

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.50 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
180.00	MGO 10%gas 20%mud 70%oil	1.432
2620.00	Clean Oil	36.752

Total Length: 2800.00 ft

Total Volume: 38.184 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

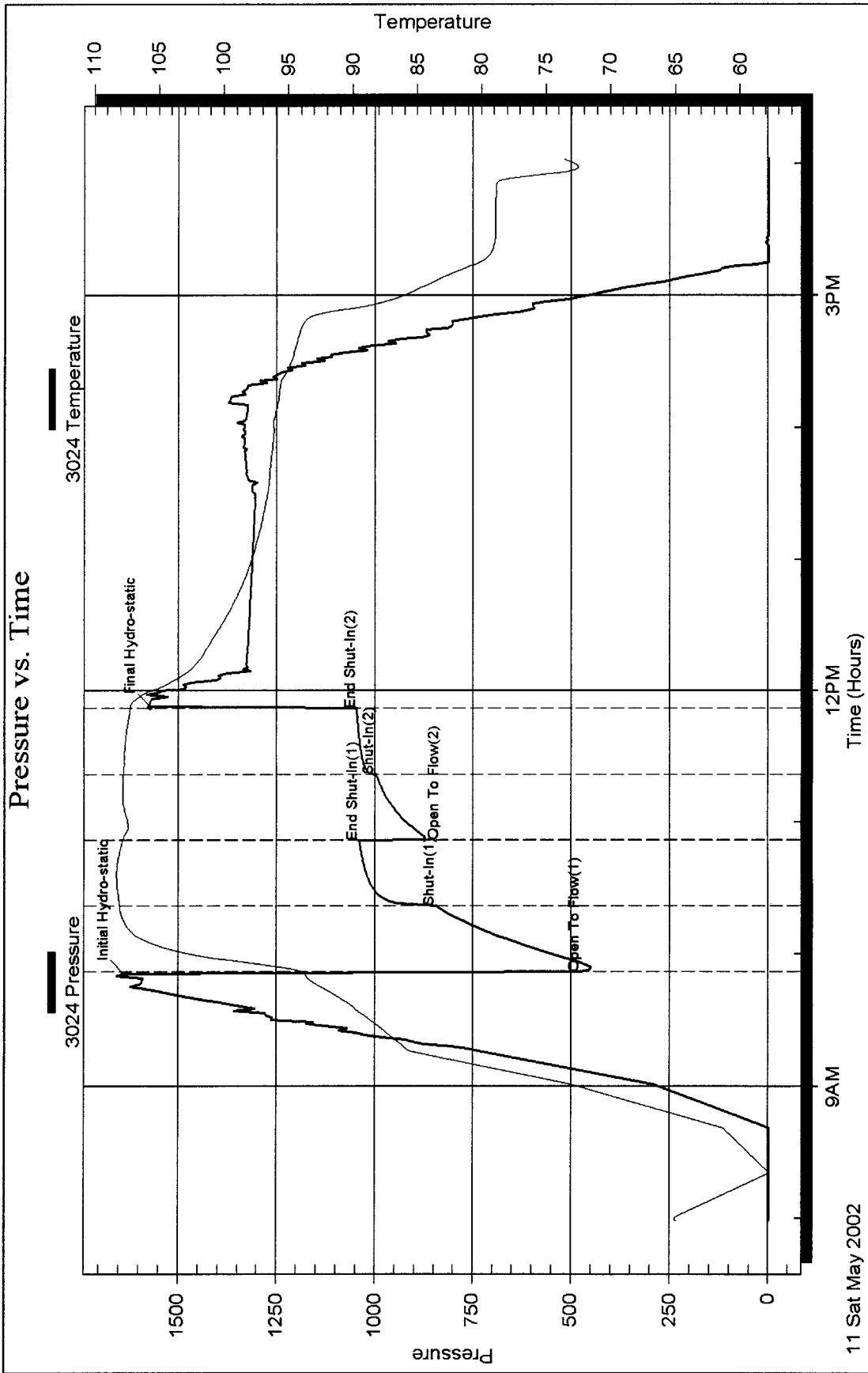
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



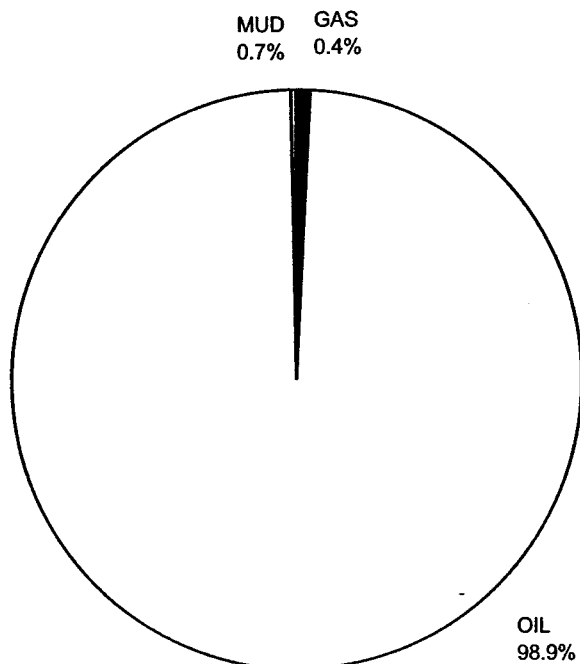
CALCULATED RECOVERY ANALYSIS

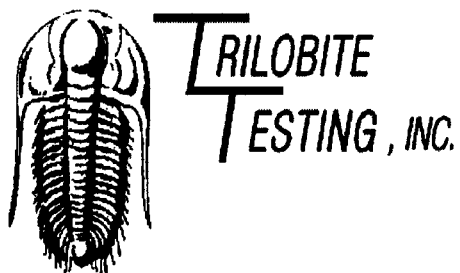
DST 3

TICKET 16289

SAMPLE #		TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRILL	1	2620	0	0	100	2620	0	0	0	0
PIPE	2	60	10	6	70	42	0	0	20	12
	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	70	84	0	0	20	24
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		2800	0	18	0	2746	0	0	0	36

BBL OIL = 38.2644 * HRS OPEN 0.33 = BBL/DAY 2782.865
 BBL WATER = 0 * = 0
 BBL MUD = 0.288
 BBL GAS = 0.144





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy Develop**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

3-7s-21w Graham Ks

Billips Brothers #1

Start Date: 2002.05.11 @ 22:04:27

End Date: 2002.05.12 @ 05:30:26

Job Ticket #: 16290 DST #: 4

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 Develop

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

Billips Brothers #1

3-7s-21w Graham Ks

Job Ticket: 16290

DST#: 4

Test Start: 2002.05.11 @ 22:04:27

GENERAL INFORMATION:

Formation: **LKC**

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

Time Tool Opened: 00:07:56

Time Test Ended: 05:30:26

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **16**

Interval: **3415.00 ft (KB) To 3435.00 ft (KB) (TVD)**

Total Depth: **3435.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2166.00 ft (KB)**

2161.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 3024

Inside

Press@RunDepth: **460.91 psig @ 3416.01 ft (KB)**

Start Date: **2002.05.11**

End Date:

2002.05.12

Capacity: **7000.00 psig**

Last Calib.: **2002.05.12**

Start Time: **22:04:27**

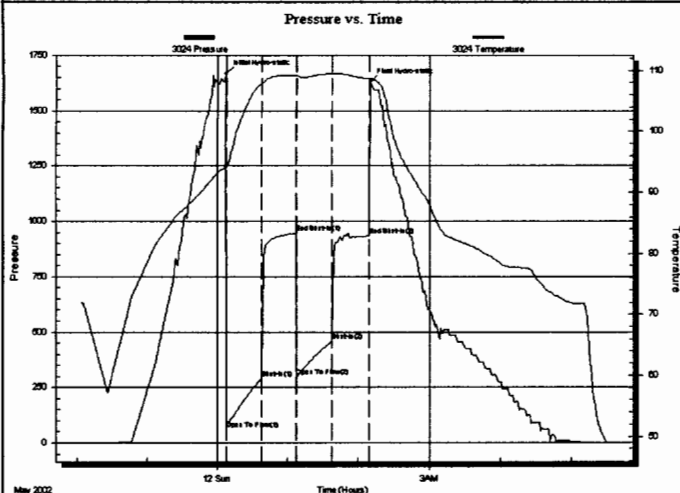
End Time:

05:30:26

Time On Btm: **2002.05.12 @ 00:07:26**

Time Off Btm: **2002.05.12 @ 02:09:56**

TEST COMMENT: FFP-strong blow in 3 min
FFP-strong blow in 4 min
weak blow back on shut-in
times 30-30-30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1667.51	94.06	Initial Hydro-static
1	62.39	94.16	Open To Flow (1)
31	290.44	107.97	Shut-In(1)
60	946.57	109.13	End Shut-In(1)
61	298.15	109.11	Open To Flow (2)
91	460.91	109.48	Shut-In(2)
122	934.96	108.67	End Shut-In(2)
123	1629.44	108.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MW 10% mud 90% water RW.11@55F	1.52
62.00	O&GCMW 10% gas 10% oil 20% mud 60% 0.87r	
248.00	HO&GCW 10% gas 30% oil 60% water	3.48
186.00	HW&GCO 25% gas 35% water 40% oil	2.61
715.00	GIP	10.03

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 Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16290

DST#: 4

ATTN: Mike Davignon

Test Start: 2002.05.11 @ 22:04:27

Tool Information

Drill Pipe:	Length: 3305.00 ft	Diameter: 3.80 inches	Volume: 46.36 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:	55000.00 lb
			Total Volume: 46.95 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3415.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.02 ft				
Tool Length:	41.02 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			3395.00	
S.I. Tool	5.00			3400.00	
HMV	5.00			3405.00	
Packer	5.00			3410.00	21.00 Bottom Of Top Packer
Packer	5.00			3415.00	
Stubb	1.00			3416.00	
Recorder	0.01	3024	Inside	3416.01	
Perforations	16.00			3432.01	
Recorder	0.01	11085	Outside	3432.02	
Bullnose	3.00			3435.02	20.02 Bottom Packers & Anchor
Total Tool Length:	41.02				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16290

DST#: 4

ATTN: Mike Davignon

Test Start: 2002.05.11 @ 22:04:27

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:

110000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MW 10% mud 90% water RW.11@55F	1.516
62.00	O&GCMW 10% gas 10% oil 20% mud 60% water	0.870
248.00	HO&GCW 10% gas 30% oil 60% water	3.479
186.00	HW&GCO 25% gas 35% water 40% oil	2.609
715.00	GIP	10.030

Total Length: 1397.00 ft

Total Volume: 18.504 bbl

Num Fluid Samples: 0

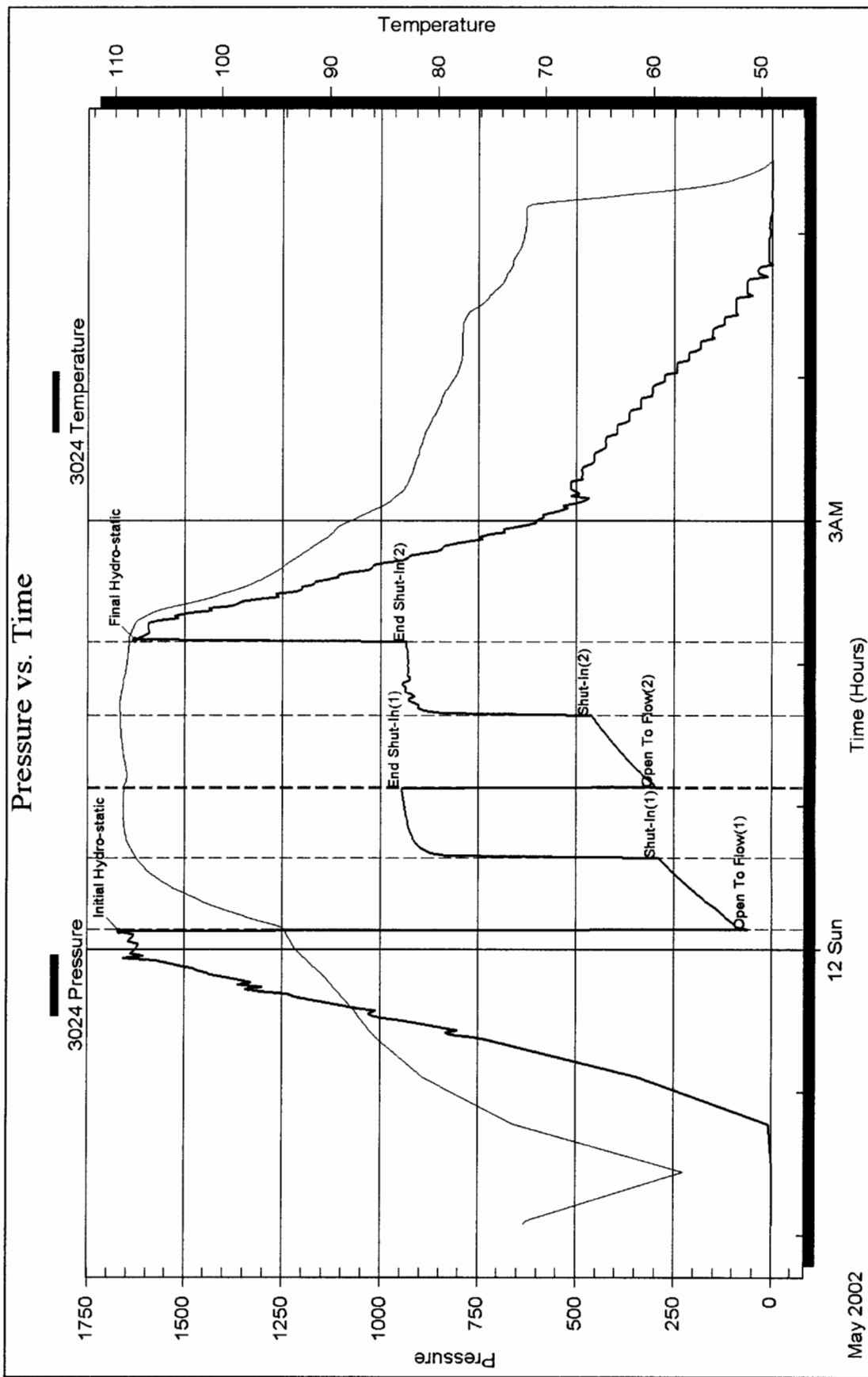
Num Gas Bombs: 0

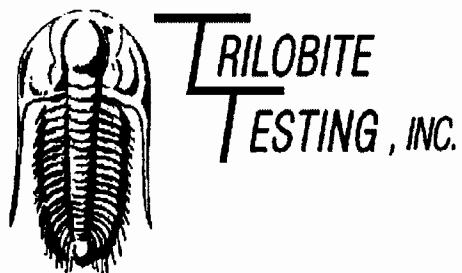
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy Develop**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

3-7s-21w Graham Ks

Billips Brothers #1

Start Date: 2002.05.12 @ 11:55:44

End Date: 2002.05.12 @ 17:59:13

Job Ticket #: 16291 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 Develop

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

Billips Brothers #1

3-7s-21w Graham Ks

Job Ticket: 16291

DST#: 5

Test Start: 2002.05.12 @ 11:55:44

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:49:13

Time Test Ended: 17:59:13

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: **3435.00 ft (KB) To 3472.00 ft (KB) (TVD)**

Total Depth: 3472.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2166.00 ft (KB)

2161.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3024

Inside

Press@RunDepth: 249.16 psig @ 3436.01 ft (KB)

Start Date: 2002.05.12

End Date:

2002.05.12

Capacity: 7000.00 psig

Last Calib.: 2002.05.12

Start Time: 11:55:44

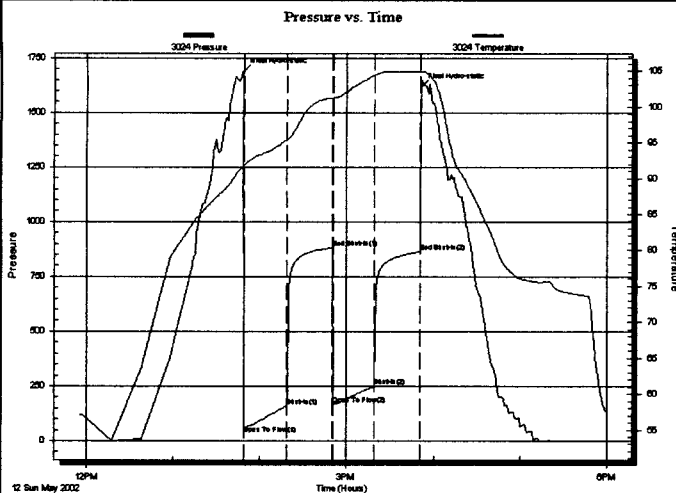
End Time:

17:59:13

Time On Btm: 2002.05.12 @ 13:48:43

Time Off Btm: 2002.05.12 @ 15:51:13

TEST COMMENT: IFP-weak to strong in 5 min
FFP-Strong blow in 3 min GTS in 28 min
times 30-30-30-30
Good blow back on shut-in 6" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.48	91.65	Initial Hydro-static
1	29.28	91.81	Open To Flow (1)
30	157.86	95.33	Shut-in(1)
62	881.82	101.23	End Shut-in(1)
62	168.63	101.26	Open To Flow (2)
91	249.16	104.43	Shut-in(2)
122	863.88	104.92	End Shut-in(2)
123	1618.18	104.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	HO&GCM 5%gas 20%oil 75%mud	0.59
70.00	MGO 15%gas 45%oil 40%mud	0.98
455.00	clean oil	6.38

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 Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16291

DST#: 5

ATTN: Mike Davignon

Test Start: 2002.05.12 @ 11:55:44

Tool Information

Drill Pipe:	Length: 3309.00 ft	Diameter: 3.80 inches	Volume: 46.42 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
			Total Volume: 47.01 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3435.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.02 ft			
Tool Length:	58.02 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			3415.00	
S.I. Tool	5.00			3420.00	
HMV	5.00			3425.00	
Packer	5.00			3430.00	21.00 Bottom Of Top Packer
Packer	5.00			3435.00	
Stubb	1.00			3436.00	
Recorder	0.01	3024	Inside	3436.01	
Perforations	33.00			3469.01	
Recorder	0.01	11085	Outside	3469.02	
Bullnose	3.00			3472.02	37.02 Bottom Packers & Anchor
Total Tool Length:		58.02			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16291

DST#: 5

ATTN: Mike Davignon

Test Start: 2002.05.12 @ 11:55:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.50 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	HO&GCM 5%gas 20%oil 75%mud	0.590
70.00	MGO 15%gas 45%oil 40%mud	0.982
455.00	clean oil	6.382

Total Length: 645.00 ft

Total Volume: 7.954 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

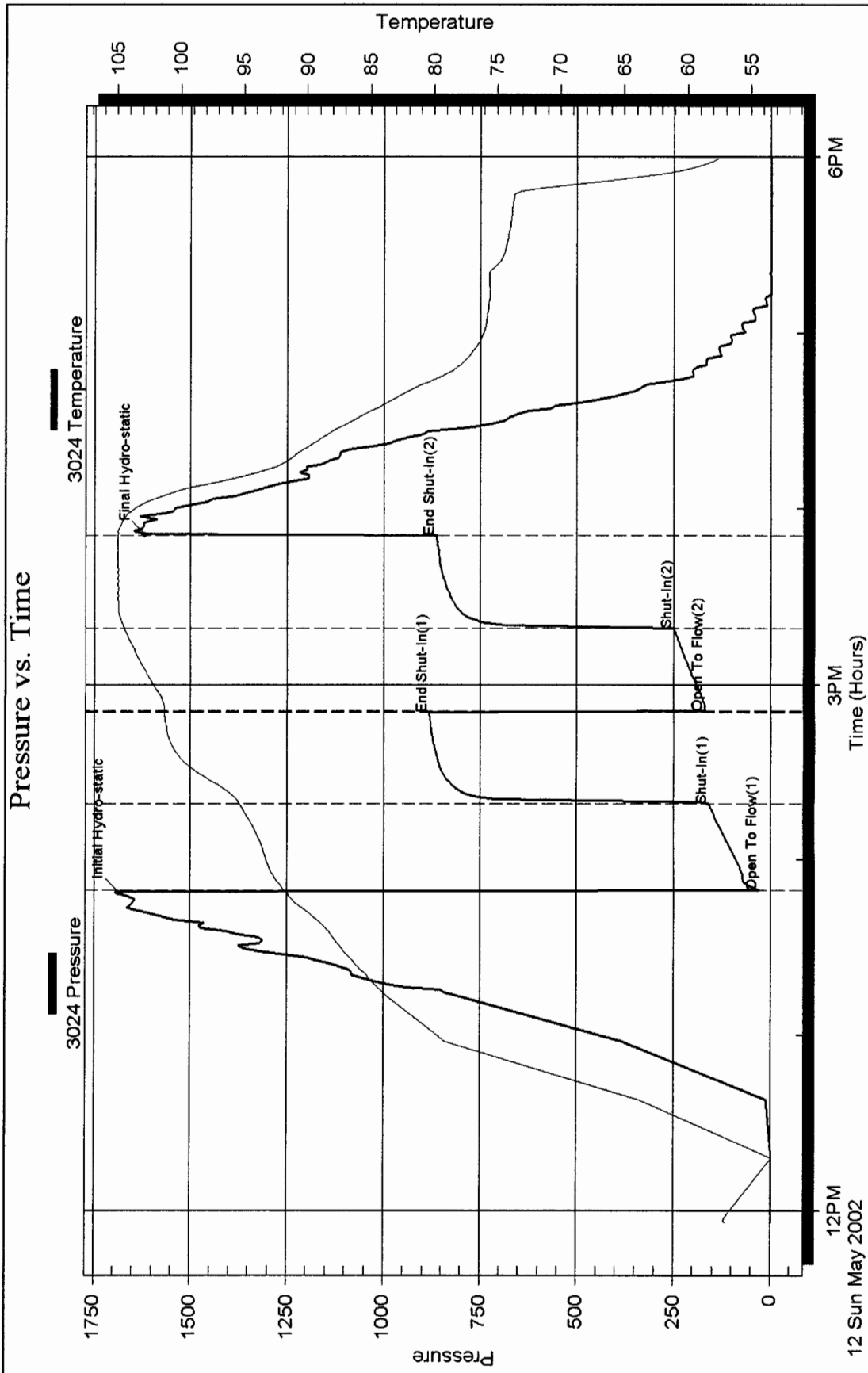
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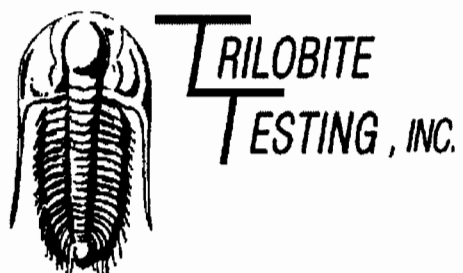
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy Develop**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

3-7s-21w Graham Ks

Billips Brothers #1

Start Date: 2002.05.13 @ 02:40:58

End Date: 2002.05.13 @ 09:09:27

Job Ticket #: 16292 DST #: 6

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 Develop

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

Billips Brothers #1

3-7s-21w Graham Ks

Job Ticket: 16292

DST#: 6

Test Start: 2002.05.13 @ 02:40:58

GENERAL INFORMATION:

Formation: **LKC**

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

Time Tool Opened: 05:07:27

Time Test Ended: 09:09:27

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **16**

Interval: **3495.00 ft (KB) To 3560.00 ft (KB) (TVD)**

Total Depth: **3560.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Poor**

Reference Elevations: **2166.00 ft (KB)**

2161.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 3024

Inside

Press@RunDepth: **100.40 psig @ 3499.01 ft (KB)**

Start Date: **2002.05.13**

End Date:

2002.05.13

Capacity: **7000.00 psig**

Last Calib.: **2002.05.13**

Start Time: **02:40:58**

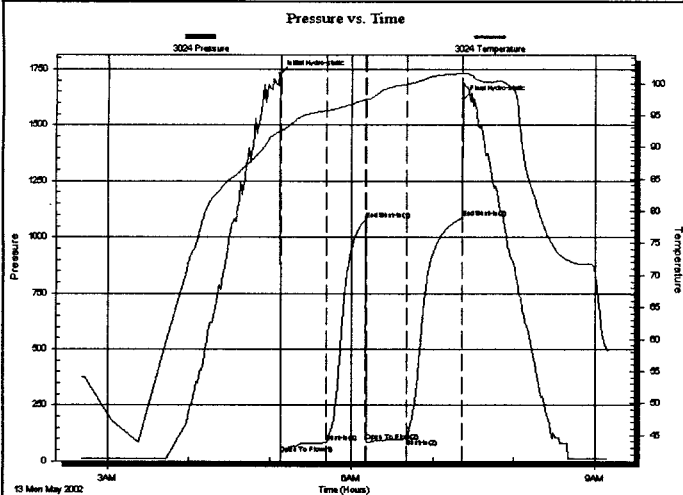
End Time:

09:09:27

Time On Btm: **2002.05.13 @ 05:06:57**

Time Off Btm: **2002.05.13 @ 07:21:57**

TEST COMMENT: FFP-weak blow thru-out 1/2" to 3" blow
FFP-weak blow thru-out 1/2" to
times 30-30-30-30
no blow on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.89	92.50	Initial Hydro-static
1	32.96	92.59	Open To Flow (1)
35	83.45	95.72	Shut-In (1)
63	1077.74	97.46	End Shut-In (1)
64	87.16	97.53	Open To Flow (2)
94	100.40	99.86	Shut-In (2)
135	1086.98	101.55	End Shut-In (2)
135	1618.02	101.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	HO&GCM 10% gas 40% oil 50% mud	0.59
40.00	HO&GCM 5% gas 30% oil 65% mud	0.56
40.00	clean oil	0.56
165.00	GIP	2.31

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 Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16292 **DST#: 6**

ATTN: Mike Davignon

Test Start: 2002.05.13 @ 02:40:58

Tool Information

Drill Pipe:	Length: 3371.00 ft	Diameter: 3.80 inches	Volume: 47.29 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: 47.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3495.00 ft			Final 39000.00 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			3475.00	
S.I. Tool	5.00			3480.00	
HMV	5.00			3485.00	
Packer	5.00			3490.00	21.00 Bottom Of Top Packer
Packer	5.00			3495.00	
Stubb	1.00			3496.00	
Perforations	2.00			3498.00	
C.O. Sub	1.00			3499.00	
Recorder	0.01	3024	Inside	3499.01	
Blank Spacing	31.00			3530.01	
C.O. Sub	1.00			3531.01	
Perforations	26.00			3557.01	
Recorder	0.01	11085	Outside	3557.02	
Bullnose	3.00			3560.02	65.02 Bottom Packers & Anchor

Total Tool Length: 86.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16292

DST#: 6

ATTN: Mike Davignon

Test Start: 2002.05.13 @ 02:40:58

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	HO&GCM 10%gas 40%oil50%mud	0.590
40.00	HO&GCM 5%gas 30%oil 65%mud	0.561
40.00	clean oil	0.561
165.00	GIP	2.315

Total Length: 365.00 ft

Total Volume: 4.027 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

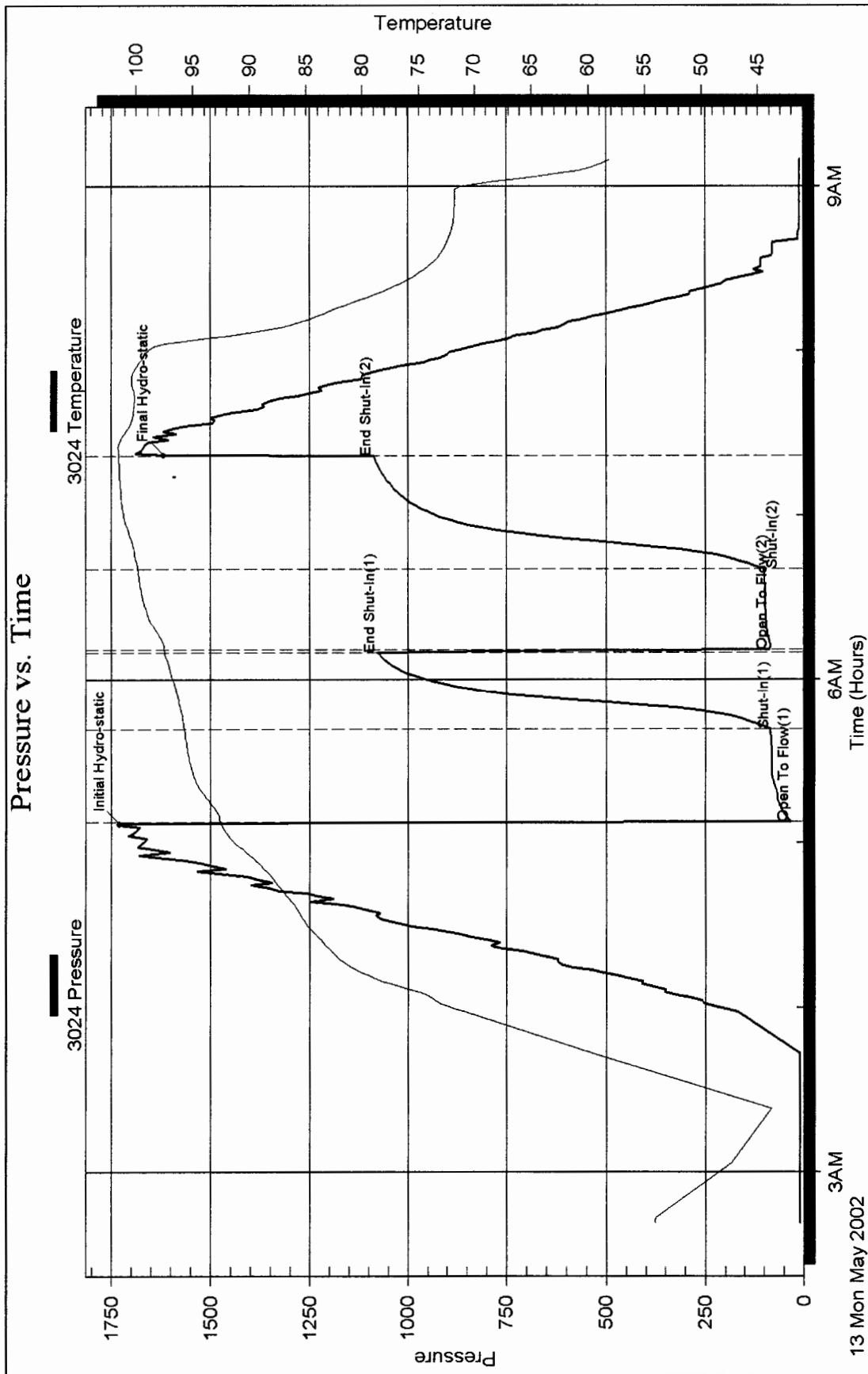
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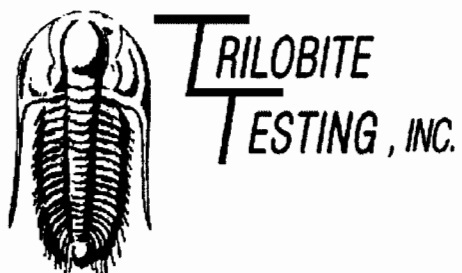
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy Develop**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

3-7s-21w Graham Ks

Billips Brothers #1

Start Date: 2002.05.13 @ 23:32:11

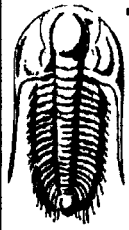
End Date: 2002.05.14 @ 06:06:40

Job Ticket #: 16293 DST #: 7

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 Develop

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

Billips Brothers #1

3-7s-21w Graham Ks

Job Ticket: 16293

DST#: 7

Test Start: 2002.05.13 @ 23:32:11

GENERAL INFORMATION:

Formation: **Reagan Sd**

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

Time Tool Opened: 01:44:40

Time Test Ended: 06:06:40

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **16**

Interval: **3604.00 ft (KB) To 3685.00 ft (KB) (TVD)**

Total Depth: **3685.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2166.00 ft (KB)**

2161.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 3024

Inside

Press@RunDepth: **74.88 psig @ 3668.01 ft (KB)**

Start Date: **2002.05.13**

End Date:

2002.05.14

Capacity: **7000.00 psig**

Last Calib.: **2002.05.14**

Start Time: **23:32:11**

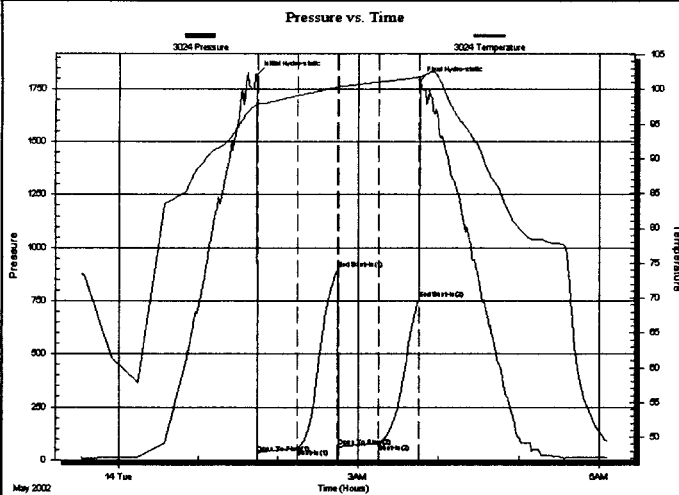
End Time:

06:06:40

Time On Btm: **2002.05.14 @ 01:43:40**

Time Off Btm: **2002.05.14 @ 03:45:40**

TEST COMMENT: IFP-weak blow thru-ou 1/2"to 1 1/2"blow
FFP-no blow
times 30-30-30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.19	97.74	Initial Hydro-static
1	31.84	97.88	Open To Flow (1)
31	55.29	99.13	Shut-In (1)
61	897.98	100.37	End Shut-In (1)
62	63.97	100.40	Open To Flow (2)
92	74.88	101.08	Shut-In (2)
121	758.11	101.79	End Shut-In (2)
122	1790.65	101.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	clean oil	0.15
90.00	HOCM 30%oil 70%mud	0.44

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 Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16293

DST#: 7

ATTN: Mike Davignon

Test Start: 2002.05.13 @ 23:32:11

Tool Information

Drill Pipe:	Length: 3467.00 ft	Diameter: 3.80 inches	Volume: 48.63 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
			Total Volume: 49.22 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3604.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.02 ft			
Tool Length:	102.02 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			3584.00	
S.I. Tool	5.00			3589.00	
HMV	5.00			3594.00	
Packer	5.00			3599.00	21.00 Bottom Of Top Packer
Packer	5.00			3604.00	
Stubb	1.00			3605.00	
Perforations	1.00			3606.00	
C.O. Sub	1.00			3607.00	
Blank Spacing	60.00			3667.00	
C.O. Sub	1.00			3668.00	
Recorder	0.01	3024	Inside	3668.01	
Perforations	14.00			3682.01	
Recorder	0.01	11085	Outside	3682.02	
Bullnose	3.00			3685.02	81.02 Bottom Packers & Anchor

Total Tool Length: 102.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy Develop

Billips Brothers #1

PO Box 150
Bogue, KS 67625

3-7s-21w Graham Ks

Job Ticket: 16293

DST#: 7

ATTN: Mike Davignon

Test Start: 2002.05.13 @ 23:32:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

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: 5200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	clean oil	0.148
90.00	HOCM 30%oil 70%mud	0.443

Total Length: 120.00 ft

Total Volume: 0.591 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

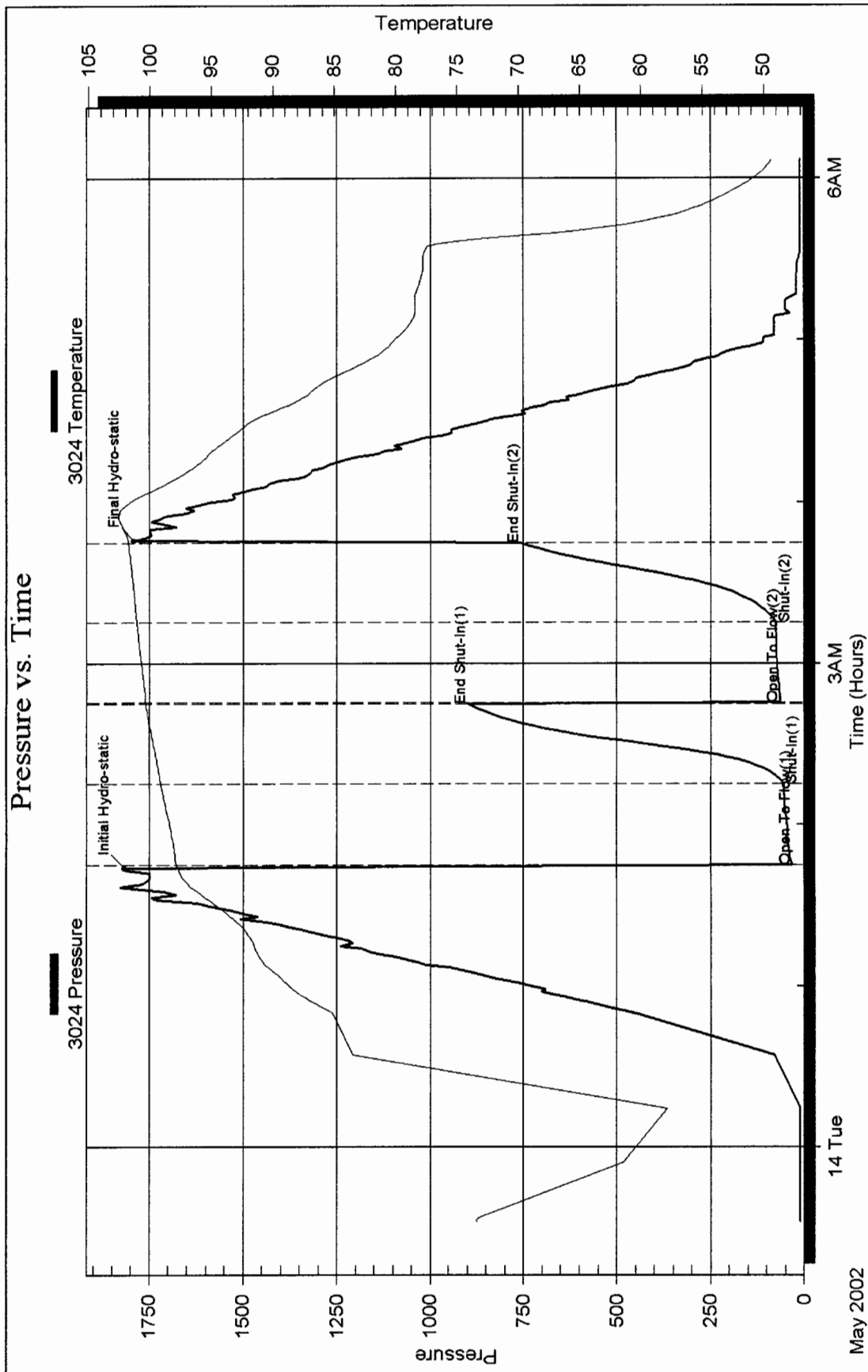
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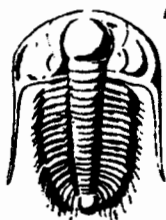
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16287

Test Ticket

Well Name & No. BILLUPS BROTHERS #1 Test No. 1 Date 5-10-02
 Company GREAT EASTERN ENERGY Development Zone Tested TOPEKA
 Address 500 W. TEXAS, STE 955 MIDLAND, TEXAS Elevation 2166 KB 2161 GL
 Co. Rep / Geo. MIKE Cont. MURFIN, 198 Est. Ft. of Pay - Por. - %
 Location: Sec. 3 Twp. 7^s Rge. 21^w Co. GRAHAM State KO
 No. of Copies Reg Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 3295 - 3325 Initial Str Wt./Lbs. 37000 Unseated Str Wt./Lbs. 41000
 Anchor Length 30 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 3290 Tool Weight 2200
 Bottom Packer Depth 3295 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3325 Wt. Pipe Run - Drill Collar Run 120
 Mud Wt. 8.8 LCM - Vis. 48 WL 7.6 Drill Pipe Size 4 1/2 X H Ft. Run 3184
 Blow Description IFP - WEAK TO A STRONG BLOW IN 9 min
FFP - WEAK TO A GOOD BLOW 1" TO 9" BLOW
HADA WEAK BLOW BACK ON SHUT-IN

Recovery — Total Feet 585 GIP - Ft. in DC 120 Ft. in DP 465
 Rec. 300 Feet Of 50 CW %gas 2 %oil 98 %water - %mud -
 Rec. 283 Feet Of 0 + GC RW %gas 20 %oil 60 %water 17 %mud -
 Rec. 2 Feet Of Clean oil %gas - %oil - %water - %mud -
 Rec. - Feet Of - %gas - %oil - %water - %mud -
 Rec. - Feet Of - %gas - %oil - %water - %mud -
 BHT 106 °F Gravity - °API D@ - °F Corrected Gravity - °API
 RW .09 @ 64 °F Chlorides 95000 ppm Recovery Chlorides 1200 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1560</u>		<u>3024</u>	<u>0530</u>
(B) First Initial Flow Pressure		<u>19</u>		<u>3296</u>	<u>0612</u>
(C) First Final Flow Pressure		<u>188</u>		<u>11085</u>	<u>0805</u>
(D) Initial Shut-In Pressure		<u>975</u>		<u>3322</u>	<u>1005</u>
(E) Second Initial Flow Pressure		<u>190</u>		<u>-</u>	<u>1155</u>
(F) Second Final Flow Pressure		<u>294</u>		<u>-</u>	<u>1210</u>
(G) Final Shut-in Pressure		<u>971</u>		<u>30</u>	<u>700</u>
(Q) Final Hydrostatic Mud		<u>1551</u>		<u>30</u>	

Final Flow 30 Safety Joint -
 Final Shut-in 30 Straddle -
 Circ. Sub -
 Sampler -
 Extra Packer -
 Elec. Rec. 150
 Mileage 63
 Other -
 TOTAL PRICE 913

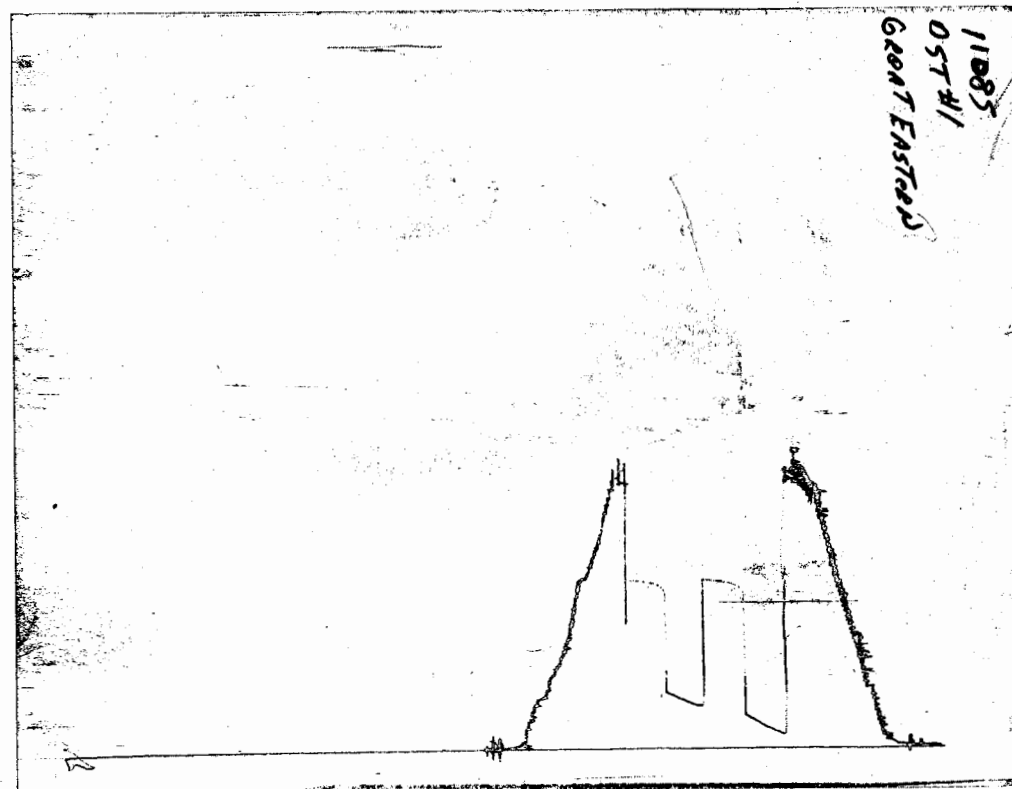
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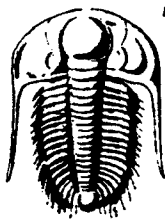
Approved By -

Our Representative RAY SCHWAGER Thank you

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16288

Test Ticket

Well Name & No. Bullups Brothers #1 Test No. 2 Date 5-10-02
 Company GREAT EASTERN Energy Development Zone Tested Topeka
 Address 500 W. TEXAS, Ste 955 Midland, Tx Elevation 2166 KB 2161 GL
 Co. Rep / Geo. MIKE DAVIGNON Cont. MURFIN RIG Est. Ft. of Pay - Por. - %
 Location: Sec. 3 Twp. 7S Rge. 21 Co. GRAHAM State K
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3321 - 3345 Initial Str Wt./Lbs. 37000 Unseated Str Wt./Lbs. 44000
 Anchor Length 24 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 48000
 Top Packer Depth 3316 Tool Weight 2200
 Bottom Packer Depth 3321 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3345 Wt. Pipe Run - Drill Collar Run 120
 Mud Wt. 8.8 LCM - Vis. 48 WL 7.6 Drill Pipe Size 4 1/2 XH Ft. Run 3186
 Blow Description IFP - STRONG BLOW THROUGHOUT
FFP - WEAK TO A STRONG BLOW IN 6 MIN
NO BLOW ON SHUT-IN

Recovery — Total Feet 1980 GIP - Ft. in DC 120 Ft. in DP 1860
 Rec. 1915 Feet Of WATER %gas %oil %water %mud
 Rec. 65 Feet Of MW w/ slow oil %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 106 °F Gravity - °API D@ - °F Corrected Gravity - °API
 RW 18 @ 65 °F Chlorides 110000 ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1577	PSI	Recorder No. <u>3024</u>	T-On Location <u>1700</u>
(B) First Initial Flow Pressure			327	PSI	(depth) <u>3322</u>	T-Started <u>1712</u>
(C) First Final Flow Pressure			860	PSI	Recorder No. <u>11085</u>	T-Open <u>1855</u>
(D) Initial Shut-In Pressure			930	PSI	(depth) <u>3342</u>	T-Pulled <u>2055</u>
(E) Second Initial Flow Pressure			867	PSI	Recorder No. <u>-</u>	T-Out <u>2310</u>
(F) Second Final Flow Pressure			930	PSI	(depth) <u>-</u>	T-Off Location <u>2330</u>
(G) Final Shut-in Pressure			944	PSI	Initial Opening <u>30</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud			1568	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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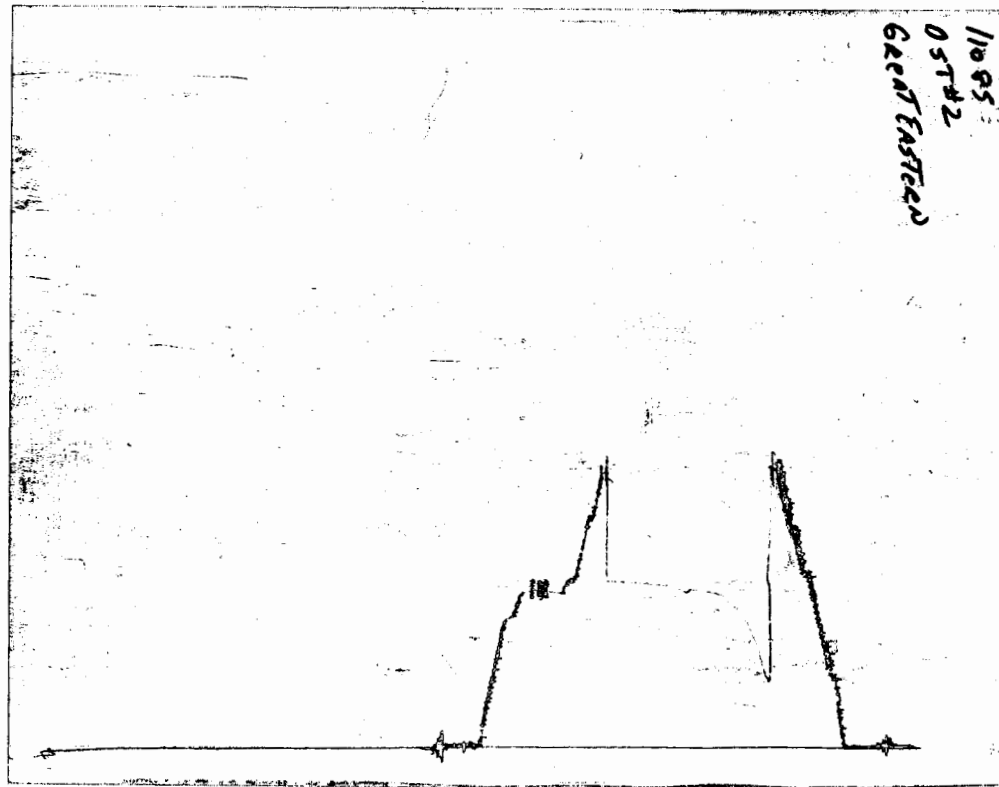
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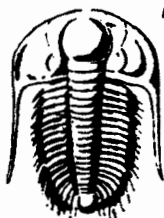
Our Representative RAY SCHWAGER Thankyou

Circ. Sub ✓ 35
 Sampler _____
 Extra Packer _____
 Elec. Rec. ✓ 150
 Mileage ✓ 17
 Other _____
 TOTAL PRICE \$ ✓ 902

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16289

Test Ticket

Well Name & No. BILLIPS BROS #1 Test No. 3 Date 5-11-02
 Company GREAT EASTERN Energy Development Zone Tested LKC
 Address 560 W. TEXAS, SE 955 MIDLAND, TX Elevation 2166 KB 2161 GL
 Co. Rep / Geo. MIKE DAVIGNON Cont. MURFIN rig 8 Est. Ft. of Pay - Por. - %
 Location: Sec. 3 Twp. 25 Rge. 21W Co. GRAHAM State K
 No. of Copies Reg Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 3346-3415 Initial Str Wt./Lbs. 38000 Unseated Str Wt./Lbs. 48000
 Anchor Length 67 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 55000
 Top Packer Depth 3341 Tool Weight 2200
 Bottom Packer Depth 3346 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3415 Wt. Pipe Run - Drill Collar Run 120
 Mud Wt. 9 LCM - Vis. 49 WL 7.6 Drill Pipe Size 4 1/2 X H Ft. Run 3215
 Blow Description IFP - Strong Blow throughout
FFP - Strong Blow throughout GTS in 12 min
Strong Blow in 8 min on shut-in

Recovery — Total Feet 2800 GIP - Ft. in DC 120 Ft. in DP 2680
 Rec. 2620 Feet Of CLEAN OIL %gas - %oil - %water - %mud -
 Rec. 180 Feet Of MGO 10 %gas 70 %oil - %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 107 °F Gravity 32 °API D@ 60 °F Corrected Gravity 32 °API
 RW - @ - °F Chlorides - ppm Recovery Chlorides 1700 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1589</u>		<u>3024</u>	<u>0730</u>
(B) First Initial Flow Pressure		<u>472</u>		<u>3384</u>	<u>0758</u>
(C) First Final Flow Pressure		<u>842</u>		<u>11085</u>	<u>0950</u>
(D) Initial Shut-In Pressure		<u>1039</u>		<u>3412</u>	<u>1150</u>
(E) Second Initial Flow Pressure		<u>872</u>		<u>-</u>	<u>1600</u>
(F) Second Final Flow Pressure		<u>997</u>		<u>-</u>	<u>1615</u>
(G) Final Shut-in Pressure		<u>1045</u>		<u>30</u>	<u>700</u>
(Q) Final Hydrostatic Mud		<u>1576</u>		<u>30</u>	
			Final Flow	<u>30</u>	Safety Joint
			Final Shut-in	<u>30</u>	Straddle
					Circ. Sub <u>35</u>
					Sampler
					Extra Packer
					Elec. Rec. <u>150</u>
					Mileage <u>63</u>
					Other
					TOTAL PRICE \$ <u>948</u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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.

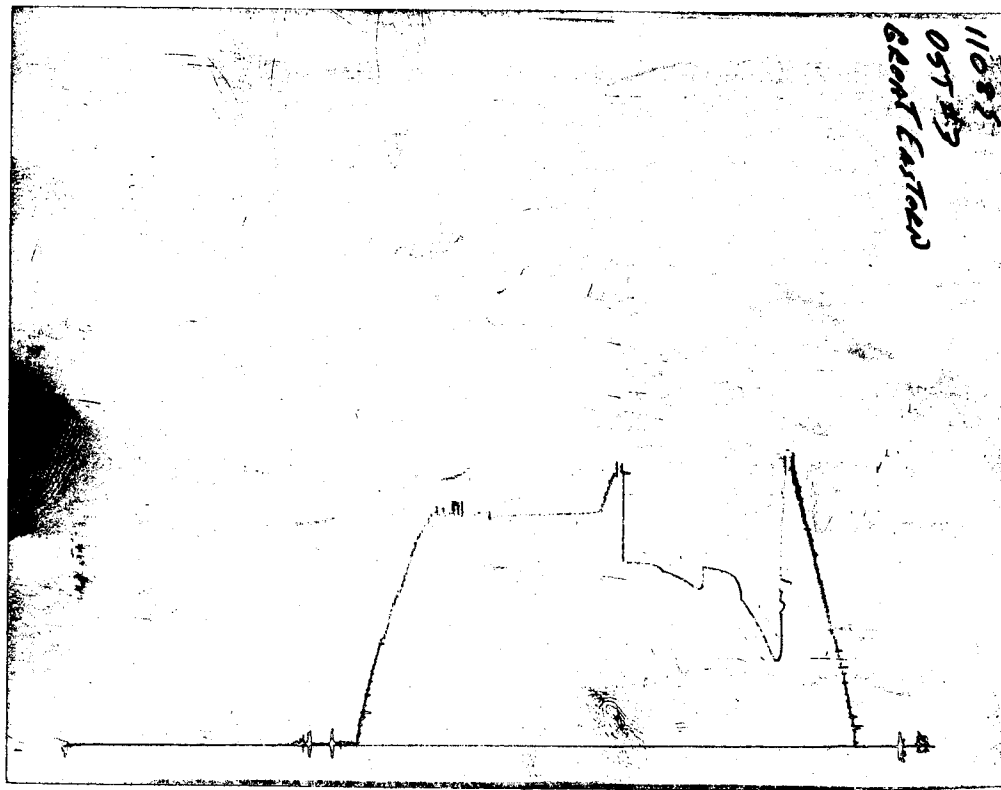
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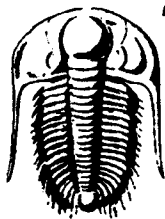
Our Representative RAY SCHWAGER Thankyou

8.30

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16290

Test Ticket

Well Name & No. BILLIPS BROTHERS #1 Test No. 4 Date 5-11-02
 Company GREAT EASTERN ENERGY DEVELOP Zone Tested LKC
 Address 500W. TEXAS, STE. 955 MIDLAND TX Elevation 2166 KB 2161 GL
 Co. Rep / Geo. MIKE DAUIGNON Cont. MARTIN RIG 8 Est. Ft. of Pay - Por. - %
 Location: Sec. 3 Twp. 7 Rge. 21 Co. GRAHAM State KO
 No. of Copies Reg Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 3415-3435 Initial Str Wt./Lbs. 38000 Unseated Str Wt./Lbs. 40000
 Anchor Length 20 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 55000
 Top Packer Depth 3410 Tool Weight 2200
 Bottom Packer Depth 3415 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3435 Wt. Pipe Run - Drill Collar Run 120
 Mud Wt. 8.9 LCM - Vis. 51 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3305
 Blow Description IFP - STRONG BLOW IN 3 min
FFP - STRONG BLOW IN 4 min
WEAK BLOW BACK ON SHUT-IN

Recovery — Total Feet 1064 GIP 715 Ft. in DC 120 Ft. in DP 944
 Rec. 382 Feet Of CLEAN OIL %gas %oil %water %mud
 Rec. 186 Feet Of H2O + GCO 25 %gas 40 %oil 35 %water 35 %mud
 Rec. 248 Feet Of H2O + GCMW 10 %gas 30 %oil 60 %water 60 %mud
 Rec. 62 Feet Of O + GCMW 10 %gas 10 %oil 60 %water 20 %mud
 Rec. 186 Feet Of MW w/ slow oil %gas %oil 90 %water 10 %mud
 BHT °F Gravity 32 °API D @ 60 °F Corrected Gravity 32 °API
 RW .11 @ 55 °F Chlorides 110000 ppm Recovery Chlorides 4000 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud		1630	PSI Recorder No.	3024	T-On Location 2130
(B) First Initial Flow Pressure		62	PSI (depth)	3416	T-Started 2204
(C) First Final Flow Pressure		290	PSI Recorder No.	11085	T-Open 0005
(D) Initial Shut-In Pressure		946	PSI (depth)	3432	T-Pulled 0205
(E) Second Initial Flow Pressure		298	PSI Recorder No.	-	T-Out 0525
(F) Second Final Flow Pressure		460	PSI (depth)	-	T-Off Location 0600
(G) Final Shut-in Pressure		934	PSI Initial Opening	30	Test 700
(Q) Final Hydrostatic Mud		1614	PSI Initial Shut-in	30	Jars
			Final Flow	30	Safety Joint
			Final Shut-in	30	Straddle
					Circ. Sub
					Sampler
					Extra Packer
					Elec. Rec 150
					Mileage 17
					Other
					TOTAL PRICE \$ 867

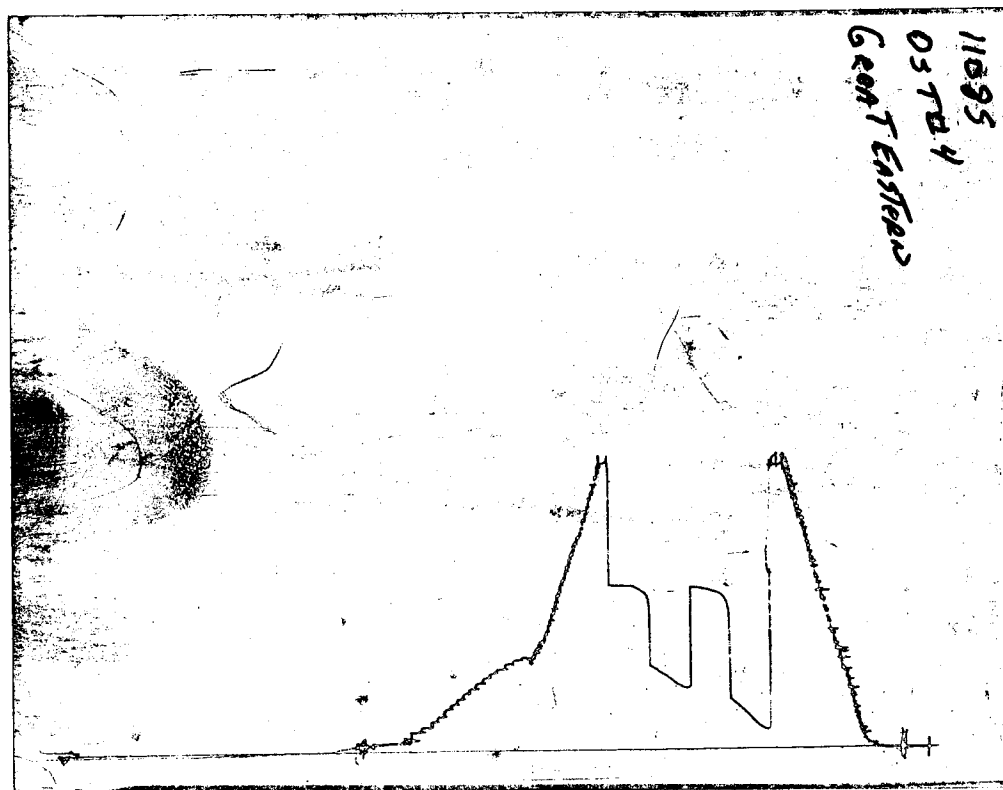
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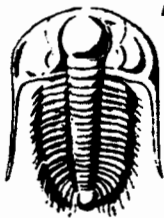
Approved By _____

Our Representative RAY SCHWAGER THANK YOU

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16291

Test Ticket

Well Name & No.	BILLIPS Bros #1	Test No.	5	Date	5-12-02
Company	GREAT EASTERN Energy Development		Zone Tested	LKC	
Address	500 W. TEXAS, STE 955 MIDLAND, TEXAS		Elevation	2166	KB 2161 GL
Co. Rep / Geo.	MIKE DAUIGNON	Cont.	MURFIN rig 8	Est. Ft. of Pay	— Por. — %
Location: Sec.	3	Twp.	7	Rge.	21
Co.	GRAHAM		State	KS	
No. of Copies	Reg	Distribution Sheet (Y, N)	Turnkey (Y, N)	Evaluation (Y, N)	

Interval Tested	3435-3472	Initial Str Wt./Lbs.	38000	Unseated Str Wt./Lbs.	40000
Anchor Length	37	Wt. Set Lbs.	25000	Wt. Pulled Loose/Lbs.	50000
Top Packer Depth	3430	Tool Weight	2200		
Bottom Packer Depth	3435	Hole Size — 7 7/8"	yes	Rubber Size — 6 3/4"	yes
Total Depth	3472	Wt. Pipe Run	—	Drill Collar Run	120
Mud Wt.	8.8	Drill Pipe Size	4 1/2 X 11	Ft. Run	3309
LCM	—				
Vis.	51				
WL	6.8				
Blow Description	IFP — WEAK TO STRONG IN 5 min FFP — STRONG BLOW IN 3 min GTS in 28 min Good Blow BACK on shut-in 6"				

Recovery — Total Feet	645	GIP	GTS	Ft. in DC	120	Ft. in DP	525
Rec.	455	Feet Of	CLEAN OIL	%gas	%oil	%water	%mud
Rec.	70	Feet Of	MGO	15 %gas	45 %oil	%water	40 %mud
Rec.	120	Feet Of	H0+6CM	5 %gas	20 %oil	%water	75 %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	104	°F Gravity	35	°API D@	60	°F Corrected Gravity	35
RW	—	@	—	°F Chlorides	—	ppm Recovery	Chlorides 5400 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1642	PSI Recorder No.	3024	T-On Location	1130
(B) First Initial Flow Pressure			29	PSI (depth)	3436	T-Started	1155
(C) First Final Flow Pressure			157	PSI Recorder No.	11085	T-Open	1345
(D) Initial Shut-In Pressure			881	PSI (depth)	3469	T-Pulled	1545
(E) Second Initial Flow Pressure			168	PSI Recorder No.	—	T-Out	1755
(F) Second Final Flow Pressure			249	PSI (depth)	—	T-Off Location	
(G) Final Shut-in Pressure			863	PSI Initial Opening	30	Test	700
(Q) Final Hydrostatic Mud			1625	PSI Initial Shut-in	30	Jars	
				Final Flow	30	Safety Joint	
				Final Shut-in	30	Straddle	

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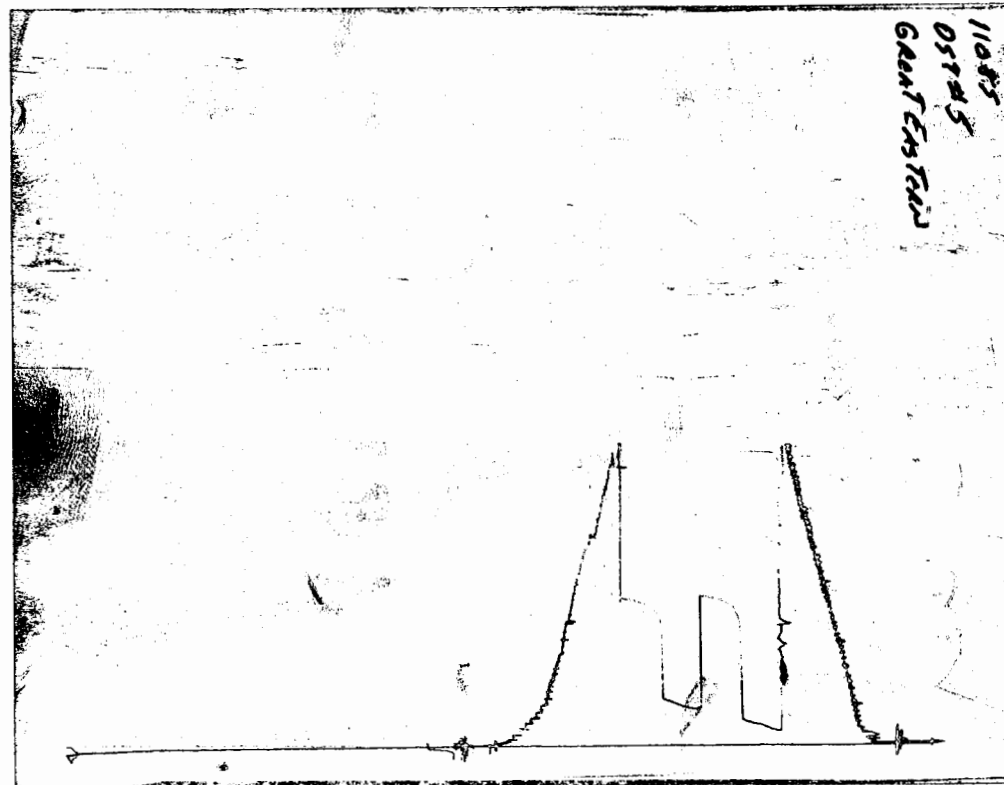
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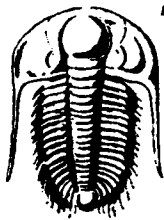
Our Representative RAY SCHWAGER THANK YOU

Extra Packer _____
Elec. Rec. ☒ 150
Mileage ☒ 17
Other _____
TOTAL PRICE ☒ 867

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16292

Test Ticket

Well Name & No.	<u>Billips Bothers #1</u>	Test No.	<u>6</u>	Date	<u>5-13-02</u>
Company	<u>GREAT EASTERN Energy Development</u>	Zone Tested	<u>LKC</u>		
Address	<u>500 W. TEXAS, STE 955 MIDLAND, TEXAS</u>	Elevation	<u>2166</u>	KB	<u>2161</u> GL
Co. Rep / Geo.	<u>MIKE DAVIGNON</u>	Cont.	<u>MURFIN rig 8</u>	Est. Ft. of Pay	<u>-</u> Por. <u>-</u> %
Location: Sec.	<u>3</u>	Twp.	<u>7^s</u>	Rge.	<u>21^w</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>3495-3560</u>	Initial Str Wt./Lbs.	<u>39000</u>	Unseated Str Wt./Lbs.	<u>39000</u>
Anchor Length	<u>65</u>	Wt. Set Lbs.	<u>25000</u>	Wt. Pulled Loose/Lbs.	<u>50000</u>
Top Packer Depth	<u>3490</u>	Tool Weight	<u>2200</u>		
Bottom Packer Depth	<u>3495</u>	Hole Size — 7 7/8"	<u>yes</u>	Rubber Size — 6 3/4"	<u>yes</u>
Total Depth	<u>3560</u>	Wt. Pipe Run	<u>-</u>	Drill Collar Run	<u>120</u>
Mud Wt.	<u>9</u>	Drill Pipe Size	<u>4 1/2 X H</u>	Ft. Run	<u>3371</u>
LCM	<u>1 1/2#</u>	Vis.	<u>52</u>	WL	<u>6.8</u>
Blow Description	<u>IFP - WEAK BLOW THROUGHOUT 1/2" TO 3" BLOW</u> <u>FFP - WEAK BLOW THROUGHOUT 1/2" TO 2" BLOW</u> <u>NO BLOW ON SHUT-IN</u>				

Recovery — Total Feet	<u>20</u>	GIP	<u>1165</u>	Ft. in DC	<u>120</u>	Ft. in DP	<u>80</u>
Rec.	<u>40</u>	Feet Of	<u>CLEAN OIL</u>	%gas	<u>-</u>	%oil	<u>-</u>
				%water	<u>-</u>	%mud	<u>-</u>
Rec.	<u>40</u>	Feet Of	<u>H0+6CM</u>	10 %gas	<u>40</u>	%oil	<u>-</u>
				%water	<u>50</u>	%mud	<u>-</u>
Rec.	<u>120</u>	Feet Of	<u>H0+6CM</u>	5 %gas	<u>30</u>	%oil	<u>-</u>
				%water	<u>65</u>	%mud	<u>-</u>
Rec.		Feet Of		%gas	<u>-</u>	%oil	<u>-</u>
				%water	<u>-</u>	%mud	<u>-</u>
Rec.		Feet Of		%gas	<u>-</u>	%oil	<u>-</u>
				%water	<u>-</u>	%mud	<u>-</u>
BHT	<u>101</u>	°F Gravity	<u>40</u>	°API D@	<u>60</u>	°F Corrected Gravity	<u>40</u>
				°API	<u>-</u>		
RW	<u>-</u>	@	<u>-</u>	°F Chlorides	<u>-</u>	ppm Recovery	<u>5400</u>
				ppm System	<u>-</u>		

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1659</u>	PSI Recorder No.	<u>3024</u>	T-On Location	<u>0200</u>
(B) First Initial Flow Pressure	<u>32</u>	PSI (depth)	<u>3499</u>	T-Started	<u>0240</u>
(C) First Final Flow Pressure	<u>82</u>	PSI Recorder No.	<u>11085</u>	T-Open	<u>0505</u>
(D) Initial Shut-In Pressure	<u>1077</u>	PSI (depth)	<u>3557</u>	T-Pulled	<u>0705</u>
(E) Second Initial Flow Pressure	<u>87</u>	PSI Recorder No.	<u>-</u>	T-Out	<u>0910</u>
(F) Second Final Flow Pressure	<u>100</u>	PSI (depth)	<u>-</u>	T-Off Location	<u>0930</u>
(G) Final Shut-in Pressure	<u>1086</u>	PSI Initial Opening	<u>30</u>	Test	<u>✓ 700</u>
(Q) Final Hydrostatic Mud	<u>1669</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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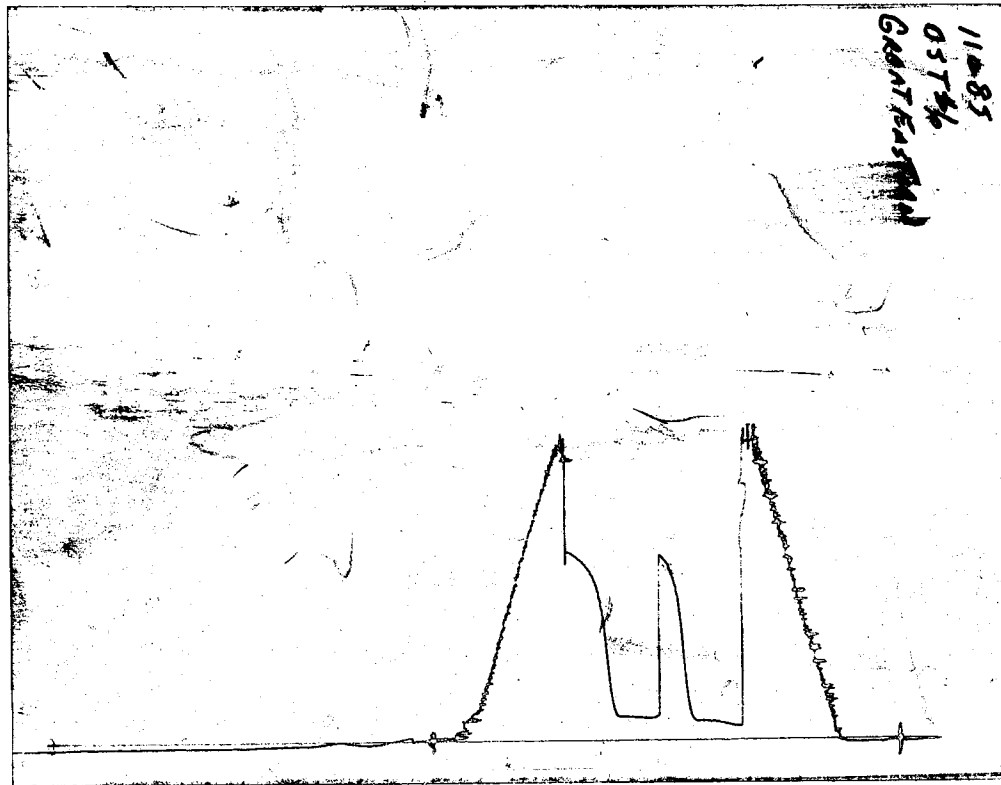
Approved By _____

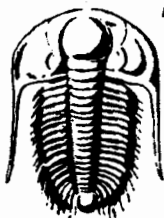
Our Representative RAY SCHWAGER Thank You

Extra Packer _____
Elec. Rec. ✓ 150
Mileage ✓ 17
Other _____
TOTAL PRICE \$ ✓ 867

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16293

Test Ticket

Well Name & No. BILLIPS BROTHERS #1 Test No. 7 Date 5-13-02
 Company GREAT EASTERN Energy Development Zone Tested REAGAN SD.
 Address 500 W. TEXAS, STE 955 MIDLAND, TEXAS Elevation 2166 KB 2161 GL
 Co. Rep / Geo. MIKE DAIGNON Cont. MURFIN 198 Est. Ft. of Pay - Por. - %
 Location: Sec. 3 Twp. 7S Rge. 21W Co. GRAHAM State KO
 No. of Copies Reg Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 3604-3685 Initial Str Wt./Lbs. 40000 Unseated Str Wt./Lbs. 40000
 Anchor Length 81 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 3599 Tool Weight 2200
 Bottom Packer Depth 3604 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3685 Wt. Pipe Run - Drill Collar Run 120
 Mud Wt. 9 LCM 1 1/2 Vis. 52 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run -
 Blow Description IFP - WEAK BLOW THROUGHOUT 1/2" TO 1 1/2" BLOW
FFP - WEAK BLOW THROUGHOUT 1/2" BLOW

Recovery — Total Feet 120 GIP - Ft. in DC 120 Ft. in DP -
 Rec. 30 Feet Of CLEAN OIL %gas - %oil - %water - %mud -
 Rec. 90 Feet Of HOCM %gas 30 %oil - %water 70 %mud -
 Rec. - Feet Of - %gas - %oil - %water - %mud -
 Rec. - Feet Of - %gas - %oil - %water - %mud -
 Rec. - Feet Of - %gas - %oil - %water - %mud -
 BHT 101 °F Gravity 28 °API D@ 60 °F Corrected Gravity 28 °API
 RW - @ - °F Chlorides - ppm Recovery Chlorides 5200 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	PSI	Recorder No.	T-On Location
(B) First Initial Flow Pressure		1748	3024	3024	2300
(C) First Final Flow Pressure		31	(depth)	3668	T-Started
(D) Initial Shut-In Pressure		55	PSI	11085	0140
(E) Second Initial Flow Pressure		897	(depth)	3682	T-Pulled
(F) Second Final Flow Pressure		63	PSI	-	0550
(G) Final Shut-in Pressure		83	Recorder No.	-	T-Off Location
(Q) Final Hydrostatic Mud		758	(depth)	-	0620
		1744	PSI	Initial Opening	Test
			PSI	30	700
			PSI	Initial Shut-in	Jars
			PSI	30	Safety Joint
			Final Flow	30	Straddle
			Final Shut-in	30	Circ. Sub
					Sampler
					Extra Packer
					Elec. Rec. <u>150</u>
					Mileage <u>17</u>
					Other
					TOTAL PRICE <u>867</u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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 _____

Our Representative RAY SCHWAGER THANK YOU

CHART PAGE

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