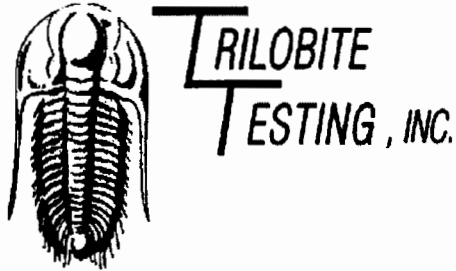


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KANSAS CORPORATION COMMISSION

APR 04 2002

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy & Dev.**

P.O.Box 150
Bogue, KS 67625

ATTN: Mike Davignon

19--9s--20w

Copeland #1

Start Date: 2001.11.17 @ 06:34:01

End Date: 2001.11.17 @ 14:20:01

Job Ticket #: 15644 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Great Eastern Energy & Dev.

Copeland #1

19--9s--20w

DST # 1

Arbuckle

2001.11.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy & Dev.

Copeland #1

P.O.Box 150
Bogue, KS 67625

19-9s-20w

Job Ticket: 15644

DST#: 1

ATTN: Mike Davignon

Test Start: 2001.11.17 @ 06:34:01

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Test Type: **Conventional Bottom Hole**

Time Tool Opened: 08:21:31

Tester: **John Schmidt**

Time Test Ended: 14:20:01

Unit No: **18**

Interval: **3786.00 ft (KB) To 3821.00 ft (KB) (TVD)**

Reference Elevations: **2275.00 ft (KB)**

Total Depth: **3821.00 ft (KB) (TVD)**

2270.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

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

Serial #: 3017

Inside

Press@RunDepth: **1177.07 psig @ 3789.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2001.11.17**

End Date:

2001.11.17

Last Calib.: **2001.11.17**

Start Time: **06:34:02**

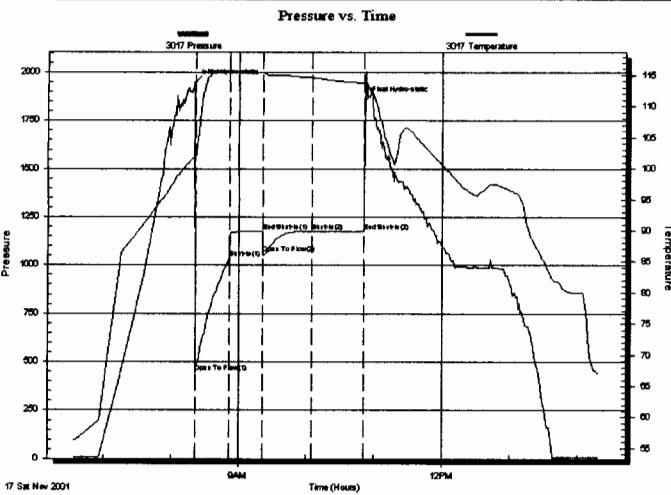
End Time:

14:20:01

Time On Btrm: **2001.11.17 @ 08:21:01**

Time Off Btrm: **2001.11.17 @ 10:52:01**

TEST COMMENT: **IF-Strong B.O.B.in 1min. IS-1"blow back**
FF-Strong B.O.B.in 2min. FS-weak surf.blow back



PRESSURE SUMMARY

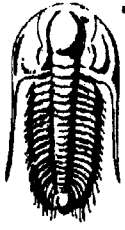
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.51	101.78	Initial Hydro-static
1	446.41	101.87	Open To Flow (1)
31	1034.99	115.76	Shut-In(1)
61	1176.73	115.48	End Shut-In(1)
61	1062.91	115.48	Open To Flow (2)
105	1177.07	114.62	Shut-In(2)
151	1177.36	113.74	End Shut-In(2)
151	1854.39	113.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	G-M-C-W-oil 5%G-5%M-10%W80%oil	0.59
2720.00	Gassy oil	38.11
180.00	gas in pipe	2.52
0.00	RW .24 @ 65F	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy & Dev.

Copeland #1

P.O.Box 150
Bogue, KS 67625

19-9s-20w

Job Ticket: 15644

DST#: 1

ATTN: Mike Davignon

Test Start: 2001.11.17 @ 06:34:01

Tool Information

Drill Pipe:	Length: 3647.00 ft	Diameter: 3.80 inches	Volume: 51.16 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 51.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3786.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.02 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			3767.00	
S.I. Tool	5.00			3772.00	
HMV	5.00			3777.00	
Packer	4.00			3781.00	20.00 Bottom Of Top Packer
Packer	5.00			3786.00	
Stubb	1.00			3787.00	
Perforations	2.00			3789.00	
Recorder	0.01	3017	Inside	3789.01	
Perforations	29.00			3818.01	
Recorder	0.01	13308	Outside	3818.02	
Bullnose	3.00			3821.02	35.02 Bottom Packers & Anchor

Total Tool Length: 55.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy & Dev.

Copeland #1

P.O.Box 150
Bogue, KS 67625

19-9s-20w

Job Ticket: 15644

DST#: 1

ATTN: Mike Davignon

Test Start: 2001.11.17 @ 06:34:01

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 23 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 32000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	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
120.00	G-M-C-W-oil 5%G-5%M-10%W80%oil	0.590
2720.00	Gassy oil	38.109
180.00	gas in pipe	2.525
0.00	RW .24 @ 65F	0.000

Total Length: 3020.00 ft Total Volume: 41.224 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

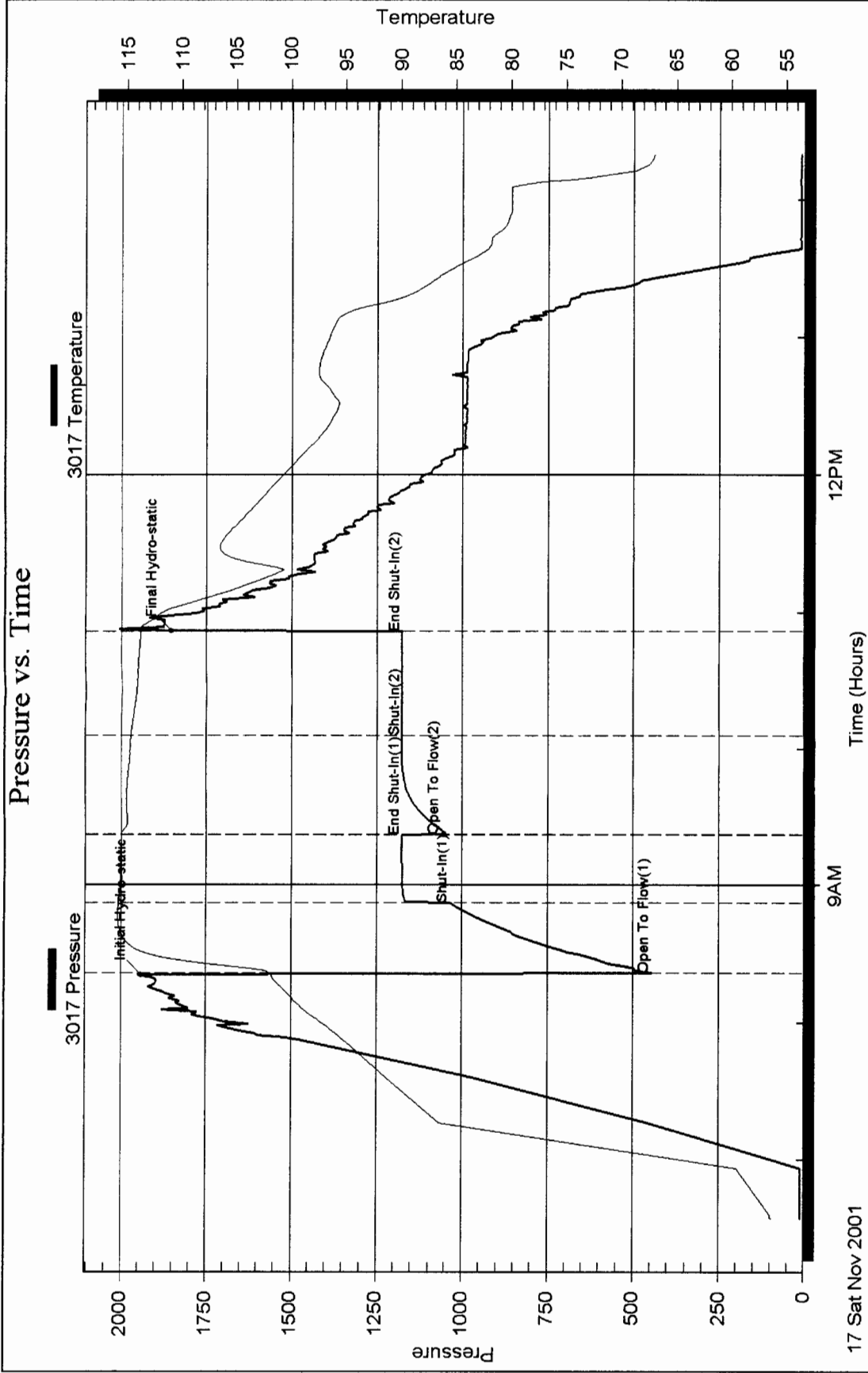
Serial #:

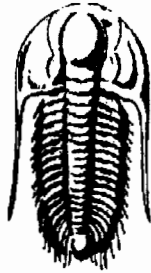
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy & Dev.**

P.O.Box 150
Bogue, KS 67625

ATTN: Mike Davignon

19--9s--20w

Copeland #1

Start Date: 2001.11.17 @ 21:46:56

End Date: 2001.11.18 @ 04:20:25

Job Ticket #: 15645 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Great Eastern Energy & Dev.

Copeland #1

19--9s--20w

DST # 2

Arbuckle

2001.11.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy & Dev.

Copeland #1

P.O.Box 150
Bogue, KS 67625

19-9s-20w

Job Ticket: 15645

DST#: 2

ATTN: Mike Davignon

Test Start: 2001.11.17 @ 21:46:56

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:39:25

Time Test Ended: 04:20:25

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3835.00 ft (KB) To 3843.00 ft (KB) (TVD)**

Total Depth: 3843.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2275.00 ft (KB)

2270.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3017

Inside

Press@RunDepth: 1188.15 psig @ 3836.01 ft (KB)

Start Date: 2001.11.17

End Date:

2001.11.18

Start Time: 21:46:56

End Time:

04:20:25

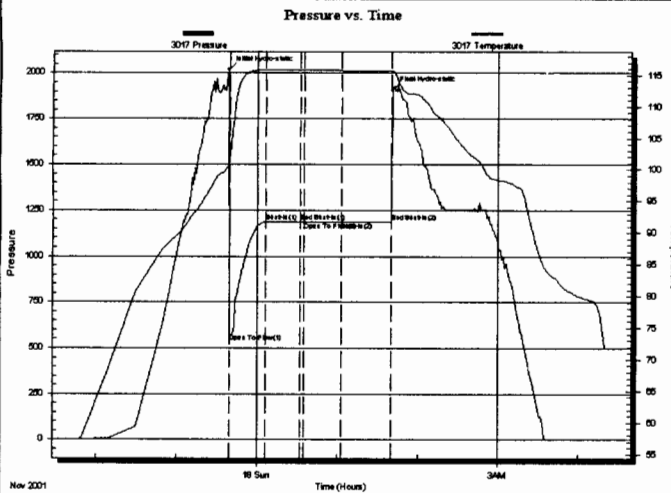
Capacity: 7000.00 psig

Last Calib.: 2001.11.18

Time On Btm: 2001.11.17 @ 23:38:25

Time Off Btm: 2001.11.18 @ 01:40:25

TEST COMMENT: F-Strong B.O.B.1-min. IS-no blow
FF- Weak dead in 10 min. FS- no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2018.86	100.59	Initial Hydro-static
1	531.52	101.60	Open To Flow (1)
28	1186.87	115.87	Shut-In(1)
54	1187.95	115.85	End Shut-In(1)
57	1187.97	115.85	Open To Flow (2)
84	1188.15	115.81	Shut-In(2)
122	1188.21	115.66	End Shut-In(2)
122	1907.25	115.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2620.00	salt water	35.61
0.00	RW .2 @ 58F	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy & Dev.

Copeland #1

P.O.Box 150
Bogue, KS 67625

19-9s-20w

Job Ticket: 15645

DST#: 2

ATTN: Mike Davignon

Test Start: 2001.11.17 @ 21:46:56

Tool Information

Drill Pipe:	Length: 3716.00 ft	Diameter: 3.80 inches	Volume: 52.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3835.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.01 ft			
Tool Length:	28.01 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			3816.00	
S.I. Tool	5.00			3821.00	
HMV	5.00			3826.00	
Packer	4.00			3830.00	20.00 Bottom Of Top Packer
Packer	5.00			3835.00	
Stubb	1.00			3836.00	
Recorder	0.01	3017	Inside	3836.01	
Perforations	4.00			3840.01	
Bullnose	3.00			3843.01	8.01 Bottom Packers & Anchor
Total Tool Length:	28.01				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy & Dev.

Copeland #1

P.O.Box 150
Bogue, KS 67625

19-9s-20w

Job Ticket: 15645

DST#: 2

ATTN: Mike Davignon

Test Start: 2001.11.17 @ 21:46:56

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:	45000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2620.00	salt water	35.613
0.00	RW .2 @ 58F	0.000

Total Length: 2620.00 ft Total Volume: 35.613 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

