

CONFIDENTIAL

RELEASED 19-27S-33W
MAR 07 2003

FROM CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

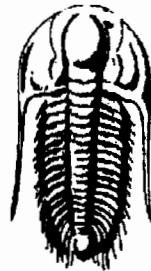
JAN 14 2002

CONSERVATION DIVISION

RELEASED

MAR 07 2003

FROM CONFIDENTIAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Oxy USA Inc**

PO Box 2528
Liberal KS 67905

ATTN: Vern Shrag

19-27S-33W

Frey #G-2

Start Date: 2001.10.23 @ 02:31:35

End Date: 2001.10.23 @ 12:15:35

Job Ticket #: 13441 DST #: 1

KCC

JAN 11 2002

CONFIDENTIAL

Oxy USA Inc

Frey #G-2

19-27S-33W

DST # 1

Kansas City "H"

2001.10.23

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

JAN 11 2002


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Oxy USA Inc

Frey #G-2

PO Box 2528
Liberal KS 67905

19-27S-33W

Job Ticket: 13441

DST#: 1

ATTN: Vern Shrag

Test Start: 2001.10.23 @ 02:31:35

GENERAL INFORMATION:

RELEASED

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:27:35

Time Test Ended: 12:15:35

Interval: **4337.00 ft (KB) To 4372.00 ft (KB) (TVD)**

Total Depth: 4372.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Blake Wallace

Unit No: 20

Reference Elevations: 2974.00 ft (KB)

2962.00 ft (CF)

KB to GR/CF: 12.00 ft

MAR 07 2003

FROM CONFIDENTIAL

Serial #: 3027

Inside

Press@RunDepth: 55.36 psig @ 4340.00 ft (KB)

Start Date: 2001.10.23

End Date:

2001.10.23

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 02:31:37

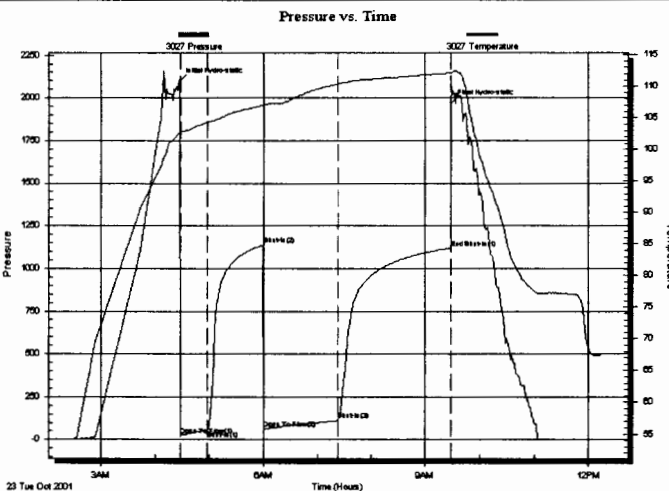
End Time:

12:15:35

Time On Btm: 2001.10.23 @ 04:27:05

Time Off Btm: 2001.10.23 @ 09:28:35

TEST COMMENT: F-fair blow built to 5"
SI-no blow back
FF-weak blow built to 2"
FSI-no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.46	102.80	Initial Hydro-static
1	25.68	102.91	Open To Flow (1)
31	55.36	104.36	Shut-In(1)
93	1136.89	107.07	Shut-In(2)
94	63.07	107.11	Open To Flow (2)
177	112.20	110.40	Shut-In(3)
302	1119.29	112.15	End Shut-In(1)
302	1969.41	112.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	5% Oil 15% Water 80% Mud	0.59
90.00	5% Oil 30% Mud 65% Water	0.44

Gas Rates

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

JAN 11 2002

CONFIDENTIAL

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MAR 07 2003


**TRILOBITE
TESTING, INC.**
DRILL STEM TEST REPORT
FROM CONFIDENTIAL
TOOL DIAGRAM

Oxy USA Inc

Frey #G-2PO Box 2528
Liberal KS 67905**19-27S-33W**

Job Ticket: 13441

DST#: 1

ATTN: Vern Shrag

Test Start: 2001.10.23 @ 02:31:35

Tool Information

Drill Pipe:	Length: 3685.00 ft	Diameter: 3.80 inches	Volume: 51.69 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 633.00 ft	Diameter: 2.25 inches	Volume: 3.11 bbl	Weight to Pull Loose: 130000.0 lb
		Total Volume:	54.80 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4337.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	65.00 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			4308.00	
S.I. Tool	5.00			4313.00	
Sampler	3.00			4316.00	
HMV	5.00			4321.00	
Jars	5.00			4326.00	
Safety Joint	2.00			4328.00	
Packer	5.00			4333.00	30.00 Bottom Of Top Packer
Packer	4.00			4337.00	
Stubb	1.00			4338.00	
Perforations	2.00			4340.00	
Recorder	0.00	3027	Inside	4340.00	
Perforations	30.00			4370.00	
Recorder	0.00	11019	Outside	4370.00	
Bullnose	2.00			4372.00	35.00 Bottom Packers & Anchor

Total Tool Length: 65.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Oxy USA Inc

Frey #G-2

PO Box 2528
Liberal KS 67905

19-27S-33W

Job Ticket: 13441

DST#: 1

ATTN: Vern Shrag

Test Start: 2001.10.23 @ 02:31:35

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:

6200 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	5% Oil 15% Water 80% Mud	0.590
90.00	5% Oil 30% Mud 65% Water	0.443

Total Length: 210.00 ft

Total Volume: 1.033 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

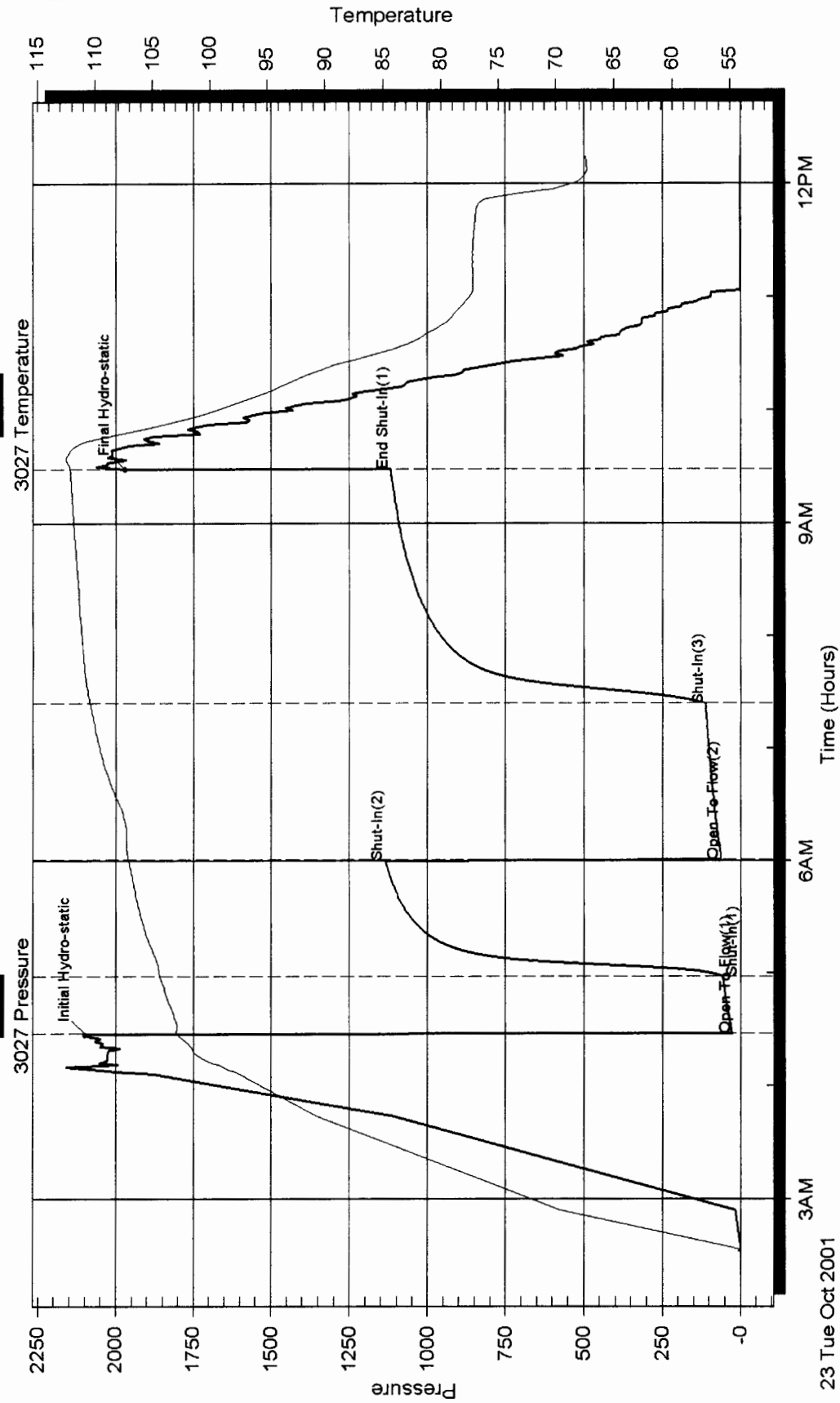
Laboratory Name:

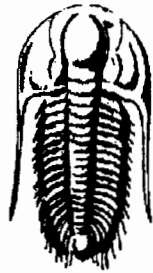
Laboratory Location:

Recovery Comments: 4000ML water @ 800 PSI S.O.C

RW= .961 @ 73 deg chlorides = 6200

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Oxy USA Inc**

PO Box 2528
Liberal KS 67905

ATTN: Vern Shrag

19-27S-33W

Frey #G-2

Start Date: 2001.10.24 @ 08:46:42

End Date: 2001.10.24 @ 18:16:42

Job Ticket #: 15634 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Oxy USA Inc

Frey #G-2

19-27S-33W

DST # 2

Pleasanton

2001.10.24



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Oxy USA Inc

PO Box 2528
Liberal KS 67905

ATTN: Vern Shrag

Frey #G-2

19-27S-33W

Job Ticket: 15634

DST#: 2

Test Start: 2001.10.24 @ 08:46:42

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:06:12

Time Test Ended: 18:16:42

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **4580.00 ft (KB) To 4617.00 ft (KB) (TVD)**

Total Depth: 4617.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2974.00 ft (KB)

2962.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 3017

Inside

Press@RunDepth: 221.13 psig @ 4585.01 ft (KB)

Start Date: 2001.10.24

End Date:

2001.10.24

Capacity: 7000.00 psig

Last Calib.:

2001.10.24

Start Time:

08:46:43

End Time:

18:16:42

Time On Btm:

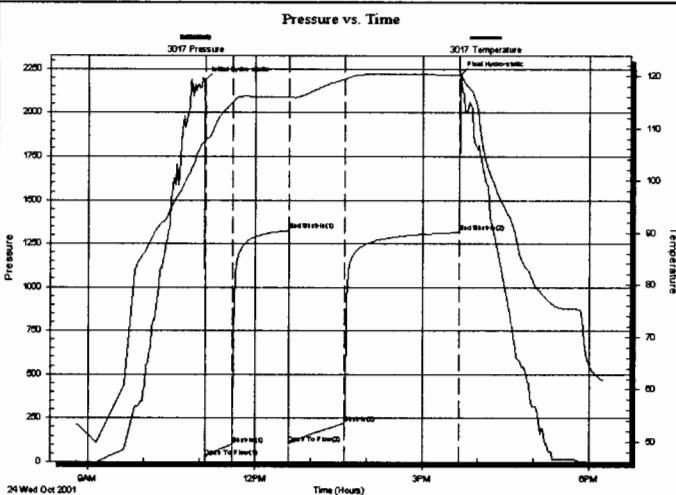
2001.10.24 @ 11:05:42

Time Off Btm:

2001.10.24 @ 15:40:42

TEST COMMENT: IF-Weak Built to 5" in.

FF-Weak Built to 6" in no blow on shut in's



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.76	107.66	Initial Hydro-static
1	24.75	107.81	Open To Flow (1)
30	100.11	115.08	Shut-In (1)
90	1325.56	116.00	End Shut-In (1)
90	105.26	116.01	Open To Flow (2)
151	221.13	119.42	Shut-In (2)
274	1315.36	120.26	End Shut-In (2)
275	2218.15	120.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	S-M-C-salt water 10% mud 90% water	1.97

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Oxy USA Inc

Frey #G-2

PO Box 2528
Liberal KS 67905

19-27S-33W

Job Ticket: 15634

DST#: 2

ATTN: Vern Shrag

Test Start: 2001.10.24 @ 08:46:42

Tool Information

Drill Pipe:	Length: 3932.00 ft	Diameter: 3.80 inches	Volume: 55.16 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: 633.00 ft	Diameter: 2.25 inches	Volume: 3.11 bbl	Weight to Pull Loose: 130000.0 lb
			Total Volume: 58.27 bbl	Tool Chased 5.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	4580.00 ft			Final 89000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.02 ft			
Tool Length:	68.02 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			4550.00	
S.I. Tool	5.00			4555.00	
Sampler	4.00			4559.00	
HMV	5.00			4564.00	
Jars	5.00			4569.00	
Safety Joint	2.00			4571.00	
Packer	4.00			4575.00	31.00 Bottom Of Top Packer
Packer	5.00			4580.00	
Stubb	1.00			4581.00	
Perforations	4.00			4585.00	
Recorder	0.01	3017	Inside	4585.01	
Perforations	29.00			4614.01	
Recorder	0.01	13308	Outside	4614.02	
Bullnose	3.00			4617.02	37.02 Bottom Packers & Anchor

Total Tool Length: 68.02



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Oxy USA Inc

Frey #G-2

PO Box 2528
Liberal KS 67905

19-27S-33W

Job Ticket: 15634

DST#: 2

ATTN: Vern Shrag

Test Start: 2001.10.24 @ 08:46:42

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:

120000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
400.00	S-M-C-salt water 10% mud 90% water	1.967

Total Length: 400.00 ft

Total Volume: 1.967 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler 4000 ML. w water

Pressure 1300

Pressure vs. Time

