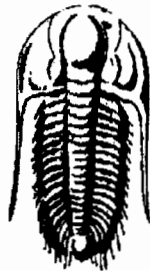


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~~31-34~~
31-278-34W

15-081-21431



**TRILOBITE
TESTING, INC.**

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RELEASED

MAR 07 2003

FROM CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **OXY USA INC**

P.O Box 2528
Liberal, KS 67905

ATTN: VERN

31 27S 34W

Magnolia A-1

Start Date: 2001.11.22 @ 22:58:57

End Date: 2001.11.23 @ 09:39:57

Job Ticket #: 14561 DST #: 1

KCC

FEB 8 2002
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OXY USA INC

Magnolia A-1

31 27S 34W

DST # 1

Upper Morrow

2001.11.22

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

OXY USA INC
P.O Box 2528
Liberal, KS 67905
ATTN: VERN

Magnolia A-1
31 27S 34W
Job Ticket: 14561 **DST#: 1**
Test Start: 2001.11.22 @ 22:58:57

GENERAL INFORMATION:

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Formation: **Upper Morrow**
Deviated: **No** Whipstock:
Time Tool Opened: 01:13:12
Time Test Ended: 09:39:57

ft (KB) **MAR 0 7 2003**

Test Type: Conventional Bottom Hole
Tester: Jakki Kreklau
Unit No: 17

Interval: **5184.00 ft (KB) To 5315.00 ft (KB) (TVD)**
Total Depth: **5315.00 ft (KB) (TVD)**
Hole Diameter: **7.78 inches** Hole Condition: Fair

Reference Elevations: **3060.00 ft (KB)**
3047.00 ft (CF)
KB to GR/CF: **13.00 ft**

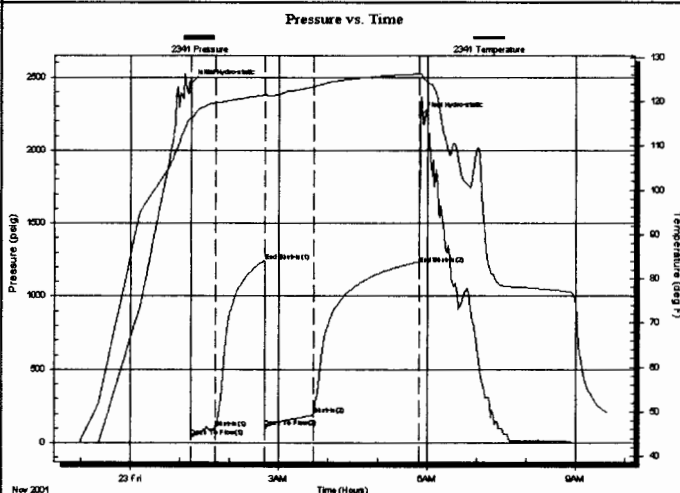
Serial #: 2341

Inside

Press@RunDepth: **188.81 psig @ 5185.00 ft (KB)**
Start Date: **2001.11.22** End Date: **2001.11.23**
Start Time: **22:58:58** End Time: **09:39:57**

Capacity: **7000.00 psig**
Last Calib.: **1899.12.30**
Time On Btm: **2001.11.23 @ 01:12:57**
Time Off Btm: **2001.11.23 @ 05:50:57**

TEST COMMENT: IF- fair blow built to strong blow BOB 26mins into opening" no gas"
ISI- no blow back
FF- strong blow BOB 3mins thru opening "no gas"
FSI- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2461.70	116.30	Initial Hydro-static
1	38.34	116.32	Open To Flow (1)
30	99.69	119.74	Shut-In(1)
90	1240.70	121.49	End Shut-In(1)
90	103.57	121.49	Open To Flow (2)
150	188.81	123.41	Shut-In(2)
278	1222.85	126.27	End Shut-In(2)
278	2237.73	126.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	hvy oil cut sl gas cut mud 90%M 5%G 5%O.46	
93.00	hvy gas cut sl oil cut mud 50%G 45%M 5%O.46	
93.00	hvy gas cut hvy oil cut mud 40%G 30%M 30%O.46	
93.00	hvy oil cut gas cut mud 55%M 25%O 20%G.46	

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

P.O Box 2528
Liberal, KS 67905

ATTN: VERN

Magnolia A-1

31 27S 34W

Job Ticket: 14561

DST#: 1

Test Start: 2001.11.22 @ 22:58:57

Tool Information

Drill Pipe: Length: 4555.00 ft Diameter: 3.80 inches Volume: 63.89 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 634.00 ft Diameter: 2.25 inches Volume: 3.12 bbl
Total Volume: 67.01 bbl

Tool Weight: 1800.00 lb
Weight set on Packer: 30000.00 lb
Weight to Pull Loose: 110000.0 lb
Tool Chased 0.00 ft
String Weight: Initial 86000.00 lb
Final 105000.0 lb

Drill Pipe Above KB: 35.00 ft

Depth to Top Packer: 5184.00 ft

Depth to Bottom Packer: ft

Interval between Packers: 134.00 ft

Tool Length: 164.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

sampler data 2 cubic ft gas 1500ml oil 700ml gas 100 psi

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			5159.00	
Sampler	3.00			5162.00	
HMV	5.00			5167.00	
Jars	5.00			5172.00	
Safety Joint	2.00			5174.00	
C.O. Sub	1.00			5175.00	
Packer	5.00			5180.00	30.00 Bottom Of Top Packer
Packer	4.00			5184.00	
Stubb	1.00			5185.00	
Recorder	0.00	2341	Inside	5185.00	
Perforations	15.00			5200.00	
C.O. Sub	1.00			5201.00	
Blank Spacing	93.00			5294.00	
C.O. Sub	1.00			5295.00	
Perforations	20.00			5315.00	
Recorder	0.00	13362	Inside	5315.00	
Bullnose	3.00			5318.00	134.00 Bottom Packers & Anchor
Total Tool Length:	164.00				

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

OXY USA INC

Magnolia A-1

P.O Box 2528
Liberal, KS 67905

31 27S 34W

Job Ticket: 14561

DST#: 1

ATTN: VERN

Test Start: 2001.11.22 @ 22:58:57

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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	hvy oil cut sl gas cut mud 90%M 5%G 5%O	0.457
93.00	hvy gas cut sl oil cut mud 50%G 45%M 5%O	0.457
93.00	hvy gas cut hvy oil cut mud 40%G 30%O 30	0.457
93.00	hvy oil cut gas cut mud 55%M 25%O 20%G	0.457

Total Length: 372.00 ft

Total Volume: 1.828 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

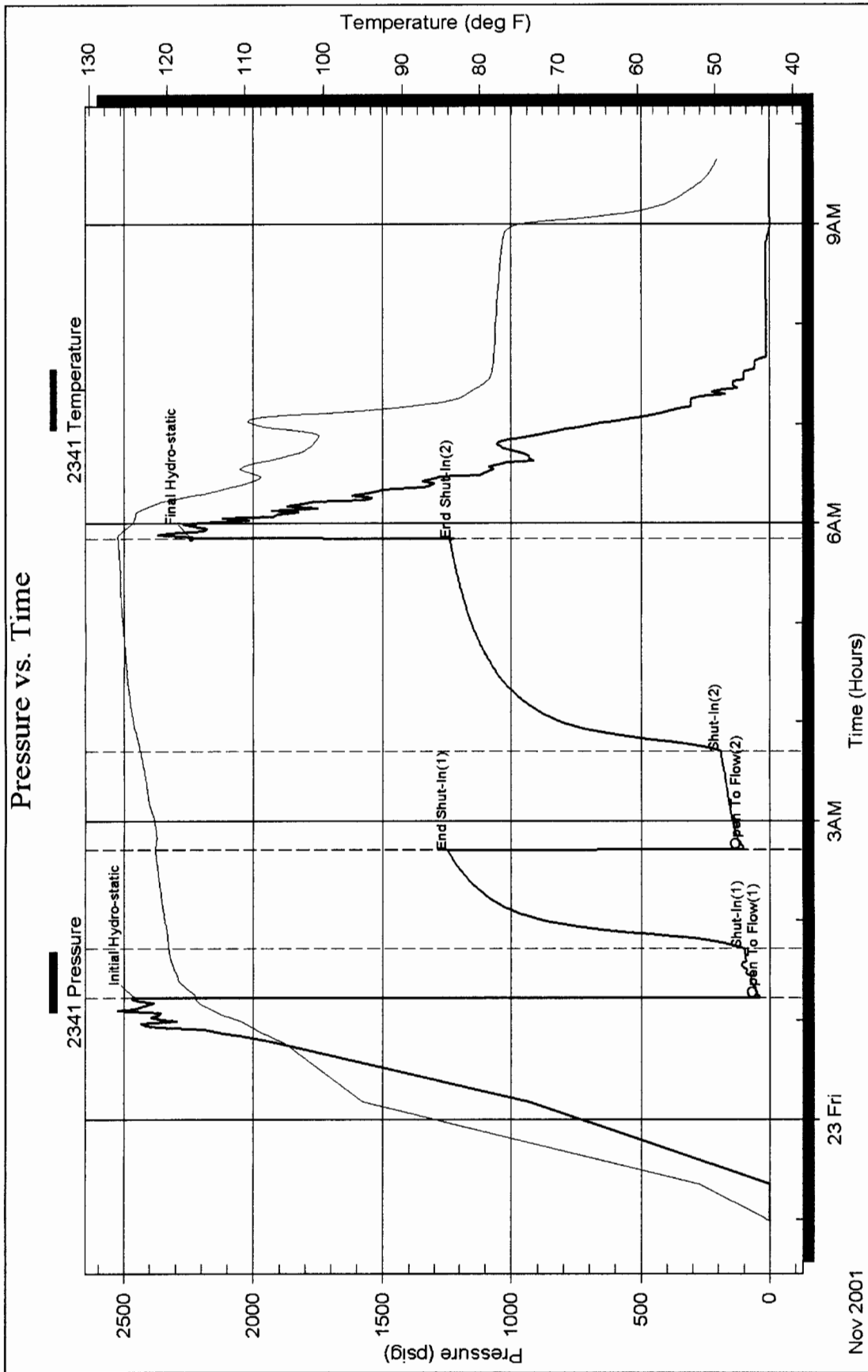
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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