



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exp. Inc.**

Wichita Ks. 67278

ATTN: Jeff Christian

36-28S-23W

McCarty "1-36"

Start Date: 2001.06.14 @ 13:52:11

End Date: 2001.06.14 @ 20:14:41

Job Ticket #: 14100

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

Ritchie Exp. Inc.
Wichita Ks. 67278

ATTN: Jeff Christian

McCarty "1-36"

36-28S-23W

Job Ticket: 14100

DST#: 1

Test Start: 2001.06.14 @ 13:52:11

GENERAL INFORMATION:

Formation: **Morrow Sd.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:58:41

Time Test Ended: 20:14:41

Test Type: Conventional Straddle

Tester: Lanny Saloga

Unit No: 14

Interval: **5215.00 ft (KB) To 5250.00 ft (KB) (TVD)**

Total Depth: 5361.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2516.00 ft (KB)

2511.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3289

Inside

Press@RunDepth: 24.42 psig @ 5217.00 ft (KB)

Start Date: 2001.06.14

End Date:

2001.06.14

Start Time: 13:52:16

End Time:

20:14:40

Capacity: 7000.00 psig

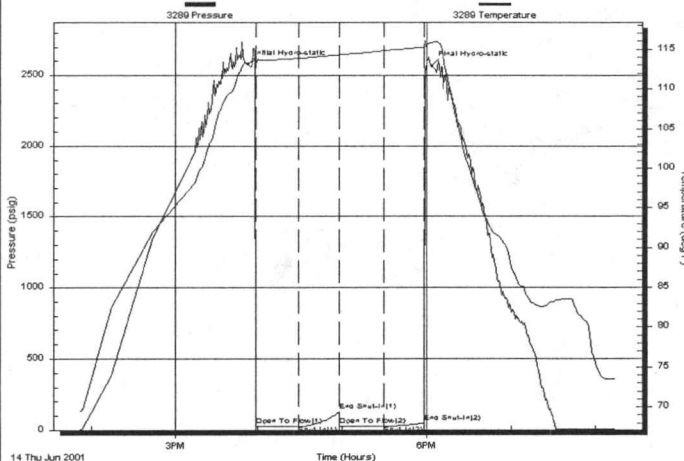
Last Calib.: 2001.02.22

Time On Btm: 2001.06.14 @ 15:52:26

Time Off Btm: 2001.06.14 @ 18:03:26

TEST COMMENT: Surface blow died in 16 min. I.F.P.
No blow. F.F.P.
Bottom packer held.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2575.53	113.32	Initial Hydro-static
7	27.62	113.12	Open To Flow (1)
37	24.50	113.86	Shut-In(1)
66	126.80	114.32	End Shut-In(1)
66	26.36	114.35	Open To Flow (2)
98	24.42	114.83	Shut-In(2)
126	46.29	115.26	End Shut-In(2)
131	2564.91	115.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.07

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exp. Inc.
Wichita Ks. 67278

McCarty "1-36"

36-28S-23W

Job Ticket: 14100

DST#: 1

ATTN: Jeff Christian

Test Start: 2001.06.14 @ 13:52:11

Tool Information

Drill Pipe:	Length: 5219.00 ft	Diameter: 3.80 inches	Volume: 73.21 bbl	Tool Weight:	3300.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	35000.00 lb	
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	7000.00 lb	
			Total Volume:	73.21 bbl	Tool Chased	ft
Drill Pipe Above KB:	31.00 ft	String Weight: Initial 58000.00 lb				
Depth to Top Packer:	5215.00 ft	Final 58000.00 lb				
Depth to Bottom Packer:	5250.00 ft					
Interval between Packers:	35.00 ft					
Tool Length:	173.00 ft					
Number of Packers:	3	Diameter:	6.75 inches			
Tool Comments:						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5189.00	
S.I. Tool	5.00			5194.00	
HMV	5.00			5199.00	
Jars	5.00			5204.00	
Safety Joint	2.00			5206.00	
Packer	4.00			5210.00	27.00 Bottom Of Top Packer
Packer	5.00			5215.00	
Stubb	1.00			5216.00	
Perforations	1.00			5217.00	
Recorder	0.00	3289	Inside	5217.00	
Perforations	25.00			5242.00	
Recorder	0.00	10242	Outside	5242.00	
Perforations	5.00			5247.00	
Blank Off Sub	0.00			5247.00	
T.C.	3.00			5250.00	35.00 Tool Interval
Packer	2.00			5252.00	
Perforations	10.00			5262.00	
C.O. Sub	1.00			5263.00	
Blank Spacing	95.00			5358.00	
Recorder	0.00	13630	Inside	5358.00	
C.O. Sub	1.00			5359.00	
Bullnose	2.00			5361.00	111.00 Bottom Packers & Anchor

Total Tool Length: 173.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exp. Inc.

McCarty "1-36"

Wichita Ks. 67278

36-28S-23W

Job Ticket: 14100

DST#: 1

ATTN: Jeff Christian

Test Start: 2001.06.14 @ 13:52:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil APt:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

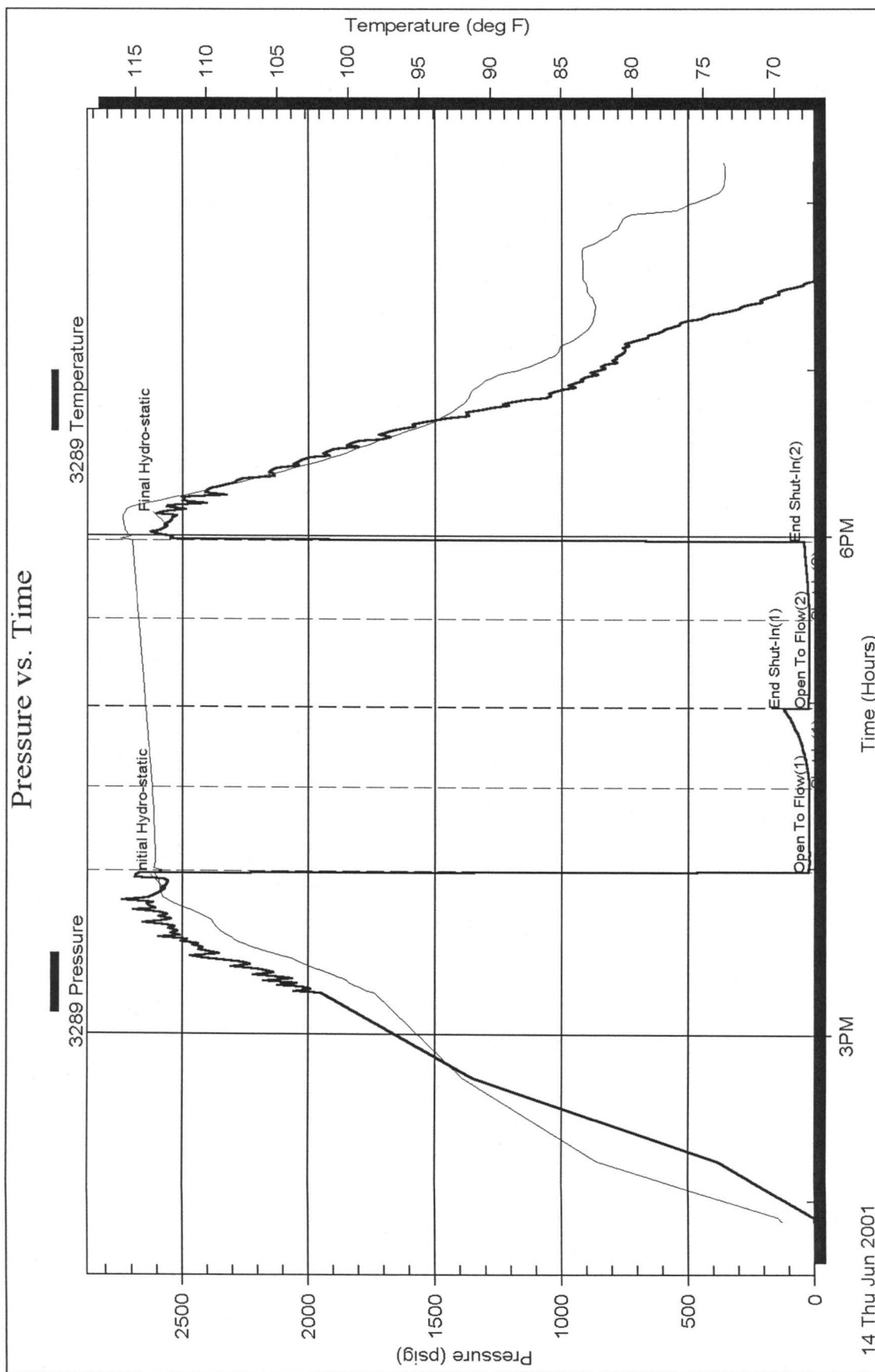
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 875-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-624-5389
Fax: 620-626-7108

Lab Number: 20012700**Analyzed: 06/21/01**

Sample From: Mayer Ranch 28-A DST 1
Producer: Ricks Exploration

Pressure:
Temperature:

Date: 06/20/01**Location: 28-3-17**

Time:
Sampler: Lanny
Source:

County: Texas
State: Oklahoma
Formation: Morrow

	Mole %	GPM
Helium	He: 0.182	0.000
Hydrogen	H2: 0.002	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.763	0.000
Carbon Dioxide	CO2: 0.211	0.000
Methane	C1: 88.381	0.000
Ethane	C2: 3.555	0.951
Propane	C3: 2.421	0.667
Iso Butane	iC4: 0.251	0.082
Normal Butane	nC4: 0.591	0.186
Iso Pentane	iC5: 0.137	0.050
Normal Pentane	nC5: 0.141	0.051
Hexanes Plus	C6+: 0.365	0.159

TOTAL: 100.000 2.147

Z Fact: 0.9976

SP.GR.: 0.6405

BTU (SAT): 1060.1 @ 14.73 psia

BTU (DRY): 1078.8 @ 14.73 psia

OCTANE RATING: 121.9

COMMENTS:

0.000