

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

Wichita KS 67202

ATTN: Curtis Covey

27-34S-16W Comanche

Murdock Ranch "1-27"

Start Date: 2001.05.01 @ 16:30:00

End Date: 2001.05.01 @ 19:05:00

Job Ticket #: 14085 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

Murfin Drilling Co.

Wichita KS 67202

ATTN: Curtis Covey

Murdock Ranch "1-27"

27-34S-16W Comanche

Job Ticket: 14085

DST#: 1

Test Start: 2001.05.01 @ 16:30:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:50:00

Time Test Ended: 19:05:00

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **5168.00 ft (KB) To 5233.00 ft (KB) (TVD)**

Total Depth: 5233.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1838.00 ft (KB)

1827.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3289 Inside

Press@RunDepth: psig @ 5170.00 ft (KB)

Start Date: 2001.05.01 End Date: 2001.05.01

Start Time: 16:30:11 End Time: 22:00:35

Capacity: 7000.00 psig

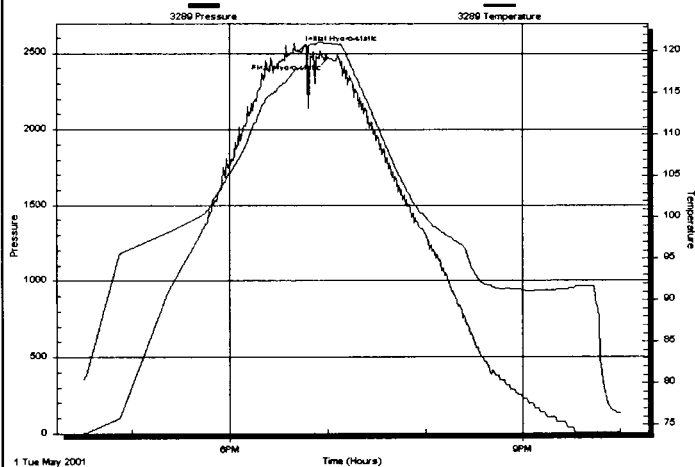
Last Calib.: 2001.01.07

Time On Btm: 2001.05.01 @ 18:42:21

Time Off Btm: 2001.05.01 @ 19:00:36

TEST COMMENT:

Pressure vs. Time



PRESSURE SUMMARY

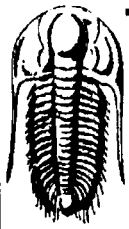
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2513.40	117.89	Initial Hydro-static
19	2470.54	120.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
640.00	Mud 100%M	5.09

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

Wichita KS 67202

ATTN: Curtis Covey

Murdock Ranch "1-27"

27-34S-16W Comanche

Job Ticket: 14085

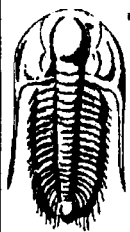
DST#: 1

Test Start: 2001.05.01 @ 16:30:00

Tool Information

Drill Pipe:	Length: 4648.00 ft	Diameter: 3.80 inches	Volume: 65.20 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 289.00 ft	Diameter: 2.75 inches	Volume: 2.12 bbl	Weight set on Packer: 45000.00 lb
Drill Collar:	Length: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 3000.00 lb
		Total Volume: 68.38 bbl		Tool Chased ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	5168.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				
Missrun "Packer Failure"				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5142.00	
S.I. Tool	5.00			5147.00	
HMV	5.00			5152.00	
Jars	5.00			5157.00	
Safety Joint	2.00			5159.00	
Packer	4.00			5163.00	27.00 Bottom Of Top Packer
Packer	5.00			5168.00	
Stubb	1.00			5169.00	
Perforations	1.00			5170.00	
Recorder	0.00	3289	Inside	5170.00	
Perforations	29.00			5199.00	
C.O. Sub	1.00			5200.00	
Blank Spacing	30.00			5230.00	
Recorder	0.00	10242	Inside	5230.00	
C.O. Sub	1.00			5231.00	
Bullnose	2.00			5233.00	65.00 Bottom Packers & Anchor
Total Tool Length:	92.00				



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FLUID SUMMARY

Murfin Drilling Co.

Wichita KS 67202

ATTN: Curtis Covey

Murdock Ranch "1-27"

27-34S-16W Comanche

Job Ticket: 14085

DST#: 1

Test Start: 2001.05.01 @ 16:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 65.00 sec/qt

Water Loss: 10.34 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil APt:

Water Salinity:

bbl

psig

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
640.00	Mud 100%M	5.088

Total Length: 640.00 ft

Total Volume: 5.090 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

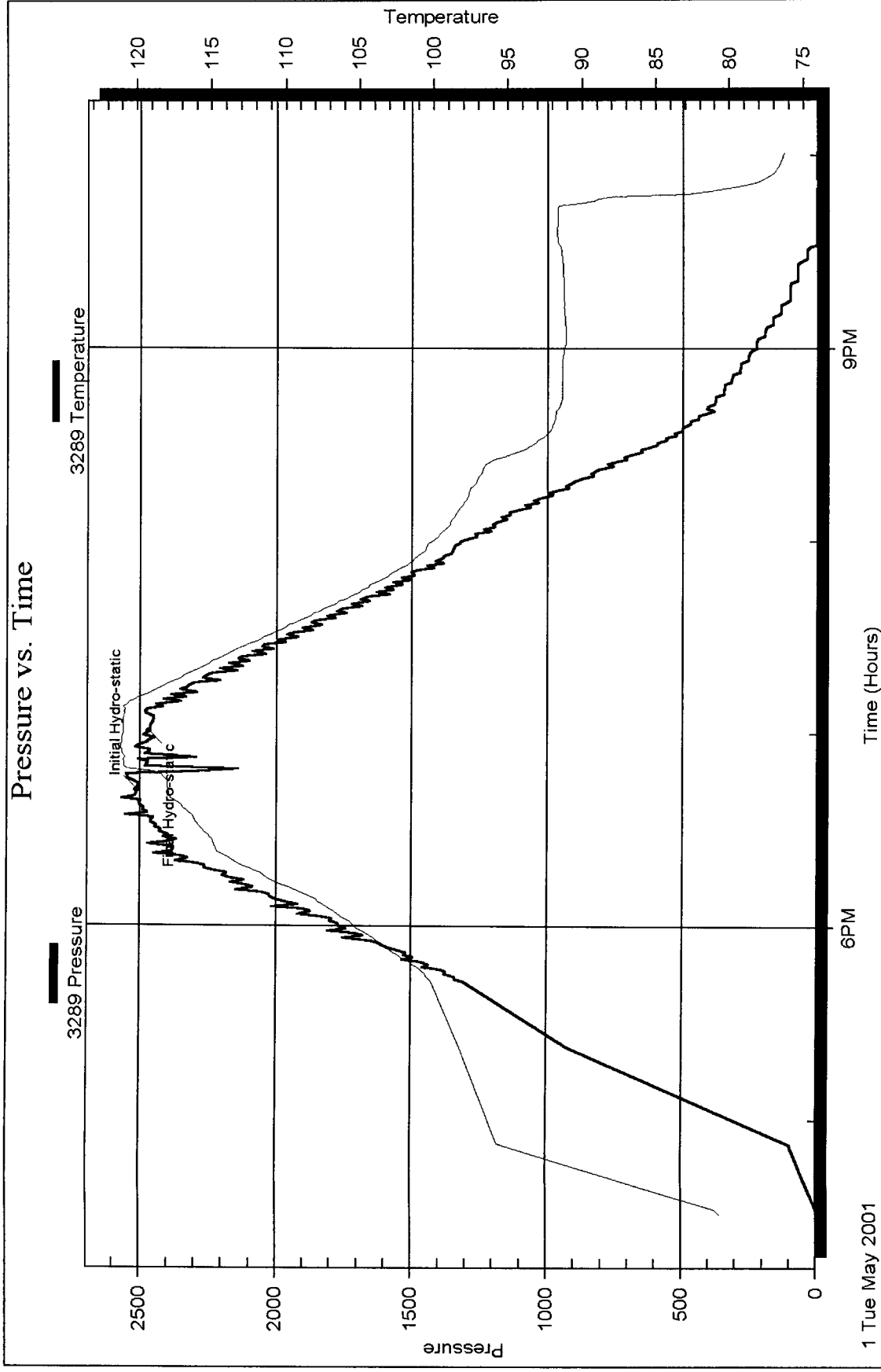
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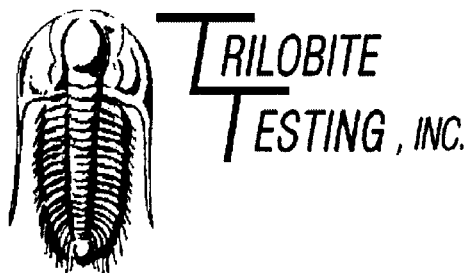
Inside

Murfin Drilling Co.

27-34S-16W Comanche

DST Test Number: 1





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Prepared For: **Murfin Drilling Co.**

Wichita KS 67202

ATTN: Curtis Covey

27-34S-16W Comanche

Murdock Ranch "1-27"

Start Date: 2001.05.07 @ 00:00:00

End Date:

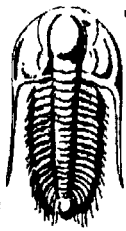
Job Ticket #:

DST #: 2

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DRILL STEM TEST REPORT

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ATTN: Curtis Covey

Murdock Ranch "1-27"

27-34S-16W Comanche

Job Ticket:

DST#: 2

Test Start: 2001.05.07 @ 00:00:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type:

Tester:

Unit No:

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

Total Depth: ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1838.00 ft (KB)

1827.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3289

Inside

Press@RunDepth: 96.64 psig @ 5118.00 ft (KB)

Start Date: 2001.05.01

End Date:

2001.05.02

Start Time: 22:52:05

End Time:

08:59:30

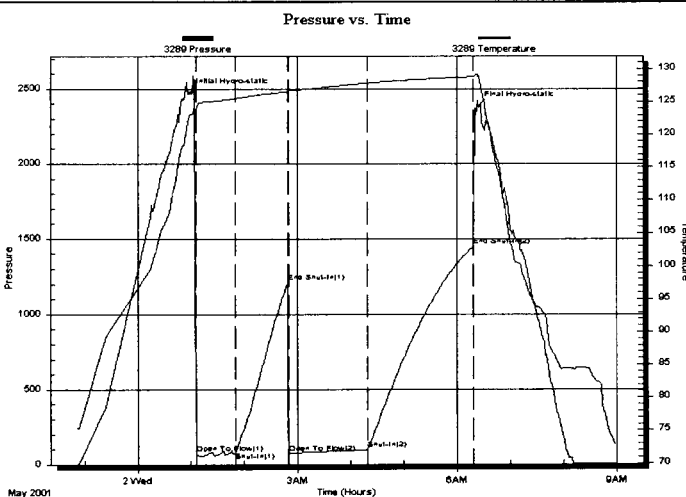
Capacity: 7000.00 psig

Last Calib.: 2001.01.07

Time On Btm: 2001.05.02 @ 00:59:00

Time Off Btm: 2001.05.02 @ 06:23:45

TEST COMMENT:



PRESSURE SUMMARY

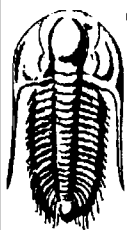
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2471.45	122.93	Initial Hydro-static
8	67.94	123.96	Open To Flow (1)
51	73.04	125.46	Shut-In(1)
110	1211.37	126.52	End Shut-In(1)
111	67.92	126.62	Open To Flow (2)
200	96.64	127.81	Shut-In(2)
320	1449.78	128.76	End Shut-In(2)
325	2386.49	128.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1105 Ft. GIP	0.00
135.00	Sli Gas cut Mud w /scum of Oil 4%G 96%O.99	

Gas Rates

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

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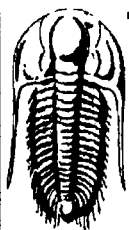
DST#: 2

Test Start: 2001.05.07 @ 00:00:00

Tool Information

Drill Pipe:	Length: 4679.00 ft	Diameter: 3.80 inches	Volume: 65.63 bbl	Tool Weight: 3300.00 lb
Heavy Wt. Pipe:	Length: 227.00 ft	Diameter: 2.75 inches	Volume: 1.67 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 11000.00 lb
			Total Volume: 68.36 bbl	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	5116.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	0.00 ft			
Tool Length:	144.00 ft			
Number of Packers:	1	Diameter: inches		
Tool Comments:				
Strong OBB in 1 min. I.F.P.				
No blow-back. I.S.I.P.				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5090.00	
S.I. Tool	5.00			5095.00	
HMV	5.00			5100.00	
Jars	5.00			5105.00	
Safety Joint	2.00			5107.00	
Packer	4.00			5111.00	27.00 Bottom Of Top Packer
Packer	5.00			5116.00	
Stubb	1.00			5117.00	
Perforations	1.00			5118.00	
Recorder	0.00	3289	Inside	5118.00	
Perforations	19.00			5137.00	
C.O. Sub	1.00			5138.00	
Blank Spacing	92.00			5230.00	
Recorder	0.00	10242	Inside	5230.00	
C.O. Sub	1.00			5231.00	
Bullnose	2.00			5233.00	117.00 Bottom Packers & Anchor
Total Tool Length:		144.00			



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DST#: 2

Test Start: 2001.05.07 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 65.00 sec/qt

Water Loss: 10.32 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1105 Ft. GIP	0.000
135.00	Sli Gas cut Mud w /scum of Oil 4%G 96%M	0.992

Total Length: 135.00 ft

Total Volume: 0.992 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

