

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Midco Exploration, inc.**

414 Plaza dr. suite 204
Westmont IL.60559

ATTN: Alan Downig

34-32s-18w Comanche

Dale #4

Start Date: 2001.05.27 @ 17:28:33

End Date: 2001.05.28 @ 04:28:31

Job Ticket #: 14826 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Midco Exploration, inc.

Dale #4

34-32s-18w Comanche

DST # 1

Viola

2001.05.27



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414 Plaza dr. suite 204
Westmont IL.60559
ATTN: Alan Dow nig

Dale #4
34-32s-18w Comanche
Job Ticket: 14826 **DST#: 1**
Test Start: 2001.05.27 @ 17:28:33

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:50:31
Time Test Ended: 04:28:31

Test Type: Conventional Bottom Hole
Tester: Darren L. Amerine
Unit No: 19

Interval: **5620.00 ft (KB) To 5632.00 ft (KB) (TVD)**
Total Depth: 5632.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2026.00 ft (KB)
2017.00 ft (CF)
KB to GR/CF: 9.00 ft

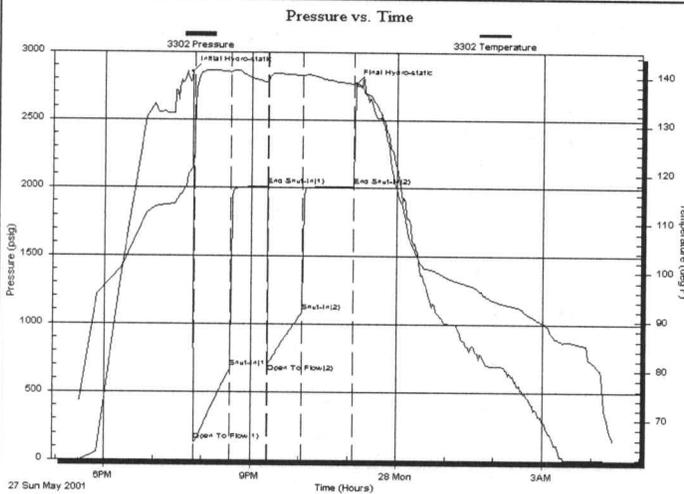
Serial #: 3302

Inside

Press@RunDepth: 1084.10 psig @ 5621.00 ft (KB)
Start Date: 2001.05.27 End Date: 2001.05.28
Start Time: 17:28:33 End Time: 04:28:31

Capacity: 7000.00 psig
Last Calib.: 2001.01.28
Time On Btm: 2001.05.27 @ 19:48:01
Time Off Btm: 2001.05.27 @ 23:08:31

TEST COMMENT: IF: Strong blow b.o.b in 25 sec. GTS in 42 mins. TSTM.
IS: Bled down for 20 mins. built back to b.o.b in 5 mins.
FF: Strong blow b.o.b in 1 min. gauge gas
FS: Bled down for 20 mins. built back to b.o.b i



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2855.59	121.18	Initial Hydro-static
3	134.39	128.35	Open To Flow (1)
47	674.14	140.96	Shut-In(1)
92	2009.80	138.84	End Shut-In(1)
93	696.83	138.71	Open To Flow (2)
136	1084.10	140.23	Shut-In(2)
199	2011.14	138.55	End Shut-In(2)
201	2768.03	138.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2243.00	Salt Water	31.46
0.00	3379 Ft. Gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13		



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TOOL DIAGRAM

Midco Exploration, inc.
414 Plaza dr. suite 204
Westmont IL.60559
ATTN: Alan Dow nig

Dale #4
34-32s-18w Comanche
Job Ticket: 14826 **DST#: 1**
Test Start: 2001.05.27 @ 17:28:33

Tool Information

Drill Pipe:	Length: 5622.00 ft	Diameter: 3.80 inches	Volume: 78.86 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 78.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	5620.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5593.00	
S.I. Tool	5.00			5598.00	
HMV	5.00			5603.00	
Jars	5.00			5608.00	
Safety Joint	2.00			5610.00	
Packer	5.00			5615.00	28.00 Bottom Of Top Packer
Packer	5.00			5620.00	
Stubb	1.00			5621.00	
Recorder	0.00	3302	Inside	5621.00	
Anchor	8.00			5629.00	
Recorder	0.00	10991	Outside	5629.00	
Bullnose	3.00			5632.00	12.00 Bottom Packers & Anchor

Total Tool Length: 40.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Midco Exploration, inc.

Dale #4

414 Plaza dr. suite 204
Westmont IL.60559

34-32s-18w Comanche

Job Ticket: 14826

DST#: 1

ATTN: Alan Dow nig

Test Start: 2001.05.27 @ 17:28:33

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:	150000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.35 in ³	Gas Cushion Type:		
Resistivity: 0.16 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 0.32 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2243.00	Salt Water	31.463
0.00	3379 Ft. Gas in pipe	0.000

Total Length: 2243.00 ft Total Volume: 31.463 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .09@60degrees
Gauge Gas at 1670 CF/D

NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 785-625-5620

Analyzed by:

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

Lab Number: 20012487	Analyzed: 05/31/01
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Sample From: Dale #4 DST 1	Pressure:	
Producer: Midco Exploration	Temperature:	

Date: Location: 34-32-18

Time:	County:	Comanche
Sampler:	State:	Kansas
Source:	Formation:	Viola

	Mole %	GPM
Helium	He: 0.465	0.000
Hydrogen	H2: 0.083	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 13.612	0.000
Carbon Dioxide	CO2: 0.165	0.000
Methane	C1: 76.457	0.000
Ethane	C2: 5.093	1.362
Propane	C3: 2.158	0.595
Iso Butane	iC4: 0.299	0.098
Normal Butane	nC4: 0.736	0.232
Iso Pentane	iC5: 0.181	0.066
Normal Pentane	nC5: 0.237	0.086
Hexanes Plus	C6+: 0.514	0.224

TOTAL: 100.000 2.663

Z Fact: 0.9977

SP.GR.: 0.6937

BTU (SAT): 980.9 @ 14.73 psia
 BTU (DRY): 998.3 @ 14.73 psia
 OCTANE RATING: 108.1

COMMENTS:

0.000