

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Daystar Petroleum**

PO Box 360
Valley Center KS 67147-0360

ATTN: Brad Rine

20 31 30 Meade KS

Mustang # A 1-20

Start Date: 2008.06.08 @ 13:45:00

End Date: 2008.06.09 @ 01:09:45

Job Ticket #: 30969 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 23 2008

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DRILL STEM TEST REPORT

Daystar Petroleum

Mustang # A 1-20

PO Box 360
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20 31 30 Meade KS

Job Ticket: 30969

DST#: 1

ATTN: Brad Rine

Test Start: 2008.06.08 @ 13:45:00

GENERAL INFORMATION:

Formation: **Morrow/Chester**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 17:35:30

Time Test Ended: 01:09:45

Test Type: **Conventional Bottom Hole**

Tester: **Harley Davidson**

Unit No: **33**

Interval: **5384.00 ft (KB) To 5467.00 ft (KB) (TVD)**

Total Depth: **5467.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **2777.00 ft (KB)**

2765.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: 6751 **Inside**

Press@RunDepth: **95.63 psig @ 5453.00 ft (KB)**

Start Date: **2008.06.08**

End Date:

2008.06.09

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Start Time: **13:45:01**

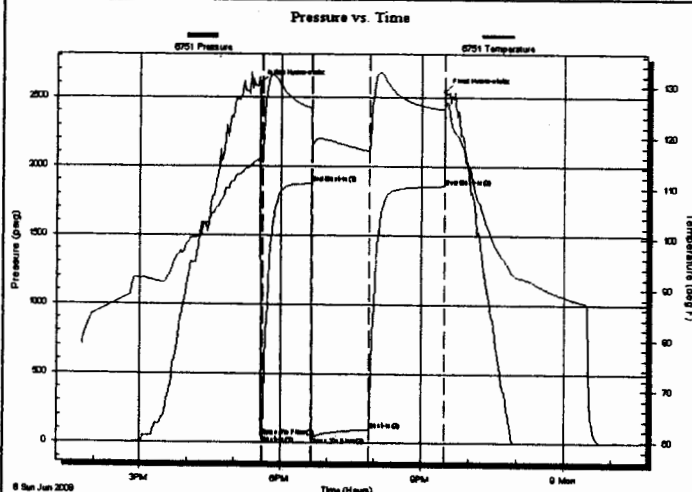
End Time:

01:09:45

Time On Btrr: **2008.06.08 @ 17:33:45**

Time Off Btrr: **2008.06.08 @ 21:29:15**

TEST COMMENT: IF Strong blow BOB 30sec.
ISI No blow back
FF Strong blow BOB ASAO GTS 5 min.
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2594.11	115.88	Initial Hydro-static
2	46.20	115.60	Open To Flow (1)
4	51.91	117.52	Shut-In (1)
65	1870.95	125.85	End Shut-In (1)
67	43.85	118.54	Open To Flow (2)
141	95.63	117.24	Shut-In (2)
235	1855.53	125.58	End Shut-In (2)
236	2540.57	125.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	100%Mw /light spotty O	0.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	9.00	37.12
Last Gas Rate	0.25	35.00	78.37
Max. Gas Rate	0.25	35.00	78.37



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TOOL DIAGRAM

Daystar Petroleum

Mustang # A 1-20

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Job Ticket: 30969

DST#: 1

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Test Start: 2008.06.08 @ 13:45:00

Tool Information

Drill Pipe:	Length: 5017.00 ft	Diameter: 3.80 inches	Volume: 70.38 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 359.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose:	110000.0 lb
		Total Volume:	72.15 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	96000.00 lb
Depth to Top Packer:	5384.00 ft			Final	96000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 ft				
Tool Length:	106.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			5366.00	
Hydraulic tool	5.00			5371.00	
Jars	5.00			5376.00	
Safety Joint	3.00			5379.00	
Packer	5.00			5384.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			5388.00	
Stubb	1.00			5389.00	
Change Over Sub	1.00			5390.00	
Drill Pipe	62.00			5452.00	
Change Over Sub	1.00			5453.00	
Recorder	0.00	6751	Inside	5453.00	
Recorder	0.00	8355	Inside	5453.00	
Perforations	1.00			5454.00	
Perforations	9.00			5463.00	
Bullnose	4.00			5467.00	83.00 Anchor Tool

Total Tool Length: 106.00



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FLUID SUMMARY

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Job Ticket: 30969

DST#: 1

ATTN: Brad Rine

Test Start: 2008.06.08 @ 13:45:00

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	100%Mw/light spotty O	0.443

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

Daystar Petroleum

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Test Start: 2008.06.08 @ 13:45:00

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	9.00	37.12
2	10	0.25	9.00	37.12
2	20	0.25	20.00	54.57
2	30	0.25	25.00	62.50
2	40	0.25	30.00	70.44
2	50	0.25	35.00	78.37
2	60	0.25	35.00	78.37

Pressure vs. Time

