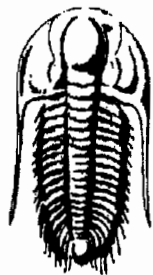


34-33s-16w

15-033-21452-0000

CONFIDENTIAL



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration**

6908 N.W. 112th St.
Oklahoma City, OK 73182

ATTN: Tom Castelli

34-33s-16w-CM-KS

Merrill Ranch #1-34

Start Date: 2005.11.08 @ 10:28:46

End Date: 2005.11.08 @ 21:23:16

Job Ticket #: 21975

DST #: 1

15-033-21452

NW NE

660 FNL 1980 FEL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

RECEIVED
JAN 30 2006
KCC WICHITA

Castelli Exploration

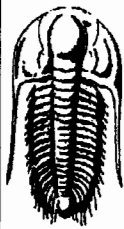
Merrill Ranch #1-34

34-33s-16w-CM-KS

DST # 1

Mississippian

2005.11.08



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Castelli Exploration
6908 N.W. 112th St.
Oklahoma City, OK 73182

ATTN: Tom Castelli

Merrill Ranch #1-34
34-33s-16w-CM-KS
Job Ticket: 21975 DST#: 1
Test Start: 2005.11.08 @ 10:28:46

GENERAL INFORMATION:

Formation: **Mississippian**

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

Time Tool Opened: 13:24:01

Time Test Ended: 21:23:16

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **30**

Interval: **4828.00 ft (KB) To 4891.00 ft (KB) (TVD)**

Total Depth: **4891.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1872.00 ft (KB)**

1859.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 6668

Inside

Press@RunDepth: **178.04 psig @ 4829.00 ft (KB)**

Start Date: **2005.11.08**

End Date: **2005.11.08**

Capacity: **7000.00 psig**

Last Calib.: **2005.11.08**

Start Time: **10:28:47**

End Time: **21:23:16**

Time On Btm: **2005.11.08 @ 13:19:46**

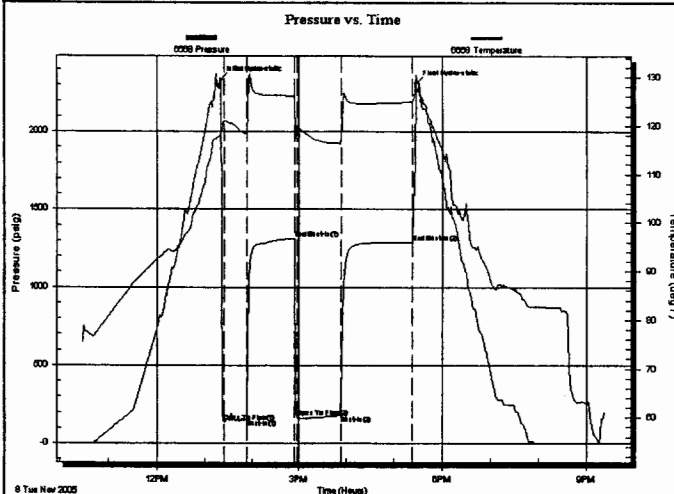
Time Off Btm: **2005.11.08 @ 17:27:16**

TEST COMMENT: IF: Strong blow, BOB 30 seconds, GTS 4minutes 45seconds.

IS: Bled off, weak surface blow back.

FF: Strong blow, BOB 5 seconds.

FS: Bled off, blow back built to BOB, slowly dying to surface.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.51	118.32	Initial Hydro-static
5	137.46	120.88	Open To Flow (1)
33	152.63	118.21	Shut-In (1)
95	1311.72	126.17	End Shut-In (1)
98	168.70	119.71	Open To Flow (2)
153	178.04	116.30	Shut-In (2)
244	1288.44	124.96	End Shut-In (2)
248	2310.49	130.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	HOCM 40%o 60% m	0.44
330.00	HGCOCM 60%g 10%o 30% m	1.62
90.00	HOCM 40%o 60% m	0.63
0.00	0	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	50.00	434.42
Last Gas Rate	0.75	13.00	427.98
Max. Gas Rate	0.50	50.00	434.42



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exploration

Merrill Ranch #1-34

6908 N.W. 112th St.
Oklahoma City, OK 73182

34-33s-16w-CM-KS

Job Ticket: 21975

DST#: 1

ATTN: Tom Castelli

Test Start: 2005.11.08 @ 10:28:46

Tool Information

Drill Pipe:	Length: 4317.00 ft	Diameter: 3.88 inches	Volume: 63.13 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: 491.00 ft	Diameter: 2.25 inches	Volume: 2.41 bbl	Weight to Pull Loose:	lb
		Total Volume:	65.54 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4828.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	63.00 ft				
Tool Length:	90.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4806.00	
Hydraulic tool	5.00			4811.00	
Jars	5.00			4816.00	
Safety Joint	2.00			4818.00	
Packer	5.00			4823.00	27.00 Bottom Of Top Packer
Packer	5.00			4828.00	
Stubb	1.00			4829.00	
Recorder	0.00	6668	Inside	4829.00	
Perforations	5.00			4834.00	
Blank Spacing	33.00			4867.00	
Perforations	21.00			4888.00	
Recorder	0.00	13266	Outside	4888.00	
Bullnose	3.00			4891.00	63.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Castelli Exploration

Merrill Ranch #1-34

6908 N.W. 112th St.
Oklahoma City, OK 73182

34-33s-16w-CM-KS

Job Ticket: 21975

DST#: 1

ATTN: Tom Castelli

Test Start: 2005.11.08 @ 10:28:46

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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.04 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	HOCM 40%o 60%m	0.443
330.00	HGCCCM 60%g 10%o 30%m	1.623
90.00	HOCM 40%o 60%m	0.627
0.00	0	0.000

Total Length: 510.00 ft

Total Volume: 2.693 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Castelli Exploration

Merrill Ranch #1-34

6908 N.W. 112th St.
Oklahoma City, OK 73182

34-33s-16w-CM-KS

Job Ticket: 21975

DST#: 1

ATTN: Tom Castelli

Test Start: 2005.11.08 @ 10:28:46

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)
1	10	0.50	50.00	434.42
1	10	0.50	50.00	434.42
1	15	0.75	21.50	560.75
1	20	0.75	16.50	482.65
1	25	0.75	15.00	459.22
1	30	0.75	14.30	448.29
2	5	0.75	18.00	506.08
2	10	0.75	18.00	506.08
2	15	0.75	17.50	498.27
2	20	0.75	16.00	474.84
2	25	0.75	14.50	451.41
2	30	0.75	14.00	443.60
2	35	0.75	13.50	435.79
2	40	0.75	13.00	427.98
2	45	0.75	13.00	427.98
2	50	0.75	13.00	427.98
2	55	0.75	13.00	427.98
2	60	0.75	13.00	427.98

DST Test Number: 1

34-33s-16w-QM-KS

Inside Castelli Exploration

Serial #: 6668

