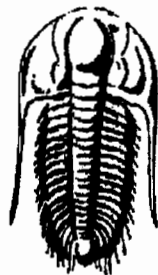


15-171-20755

31-19s-33w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206

ATTN: Wes Hansen

31-19-33 Scott, KS

Vulgamore #1-31

Start Date: 2010.03.02 @ 06:48:00

End Date: 2010.03.02 @ 15:29:12

Job Ticket #: 36979 DST #: 1

KCC
MAR 17 2010
CONFIDENTIAL

RECEIVED
KANSAS COMMISSION ON GEOLOGY

MAR 17 2010

COMMISSION ON GEOLOGY
TREASURY

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Grand Mesa Operating

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206
ATTN: Wes Hansen

Vulgamore #1-31

31-19-33 Scott, KS

Job Ticket: 36979

DST#: 1

Test Start: 2010.03.02 @ 06:48:00

GENERAL INFORMATION:

Formation: **Upper Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:53:48

Time Test Ended: 15:29:12

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4448.00 ft (KB) To 4470.00 ft (KB) (TVD)**

Total Depth: **4470.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Good

Reference Elevations: **2994.00 ft (KB)**

2989.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8359

Outside

Press@RunDepth: **579.19 psig @ 4450.00 ft (KB)**

Start Date: **2010.03.02**

End Date:

2010.03.02

Start Time: **06:48:01**

End Time:

15:29:12

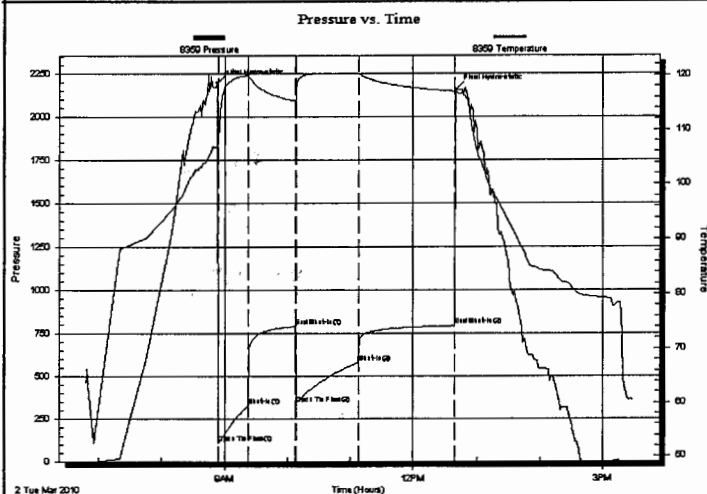
Capacity: **8000.00 psig**

Last Calib.: **2010.03.02**

Time On Btm: **2010.03.02 @ 08:52:36**

Time Off Btm: **2010.03.02 @ 12:41:00**

TEST COMMENT: IF: B.O.B. @ 3 min.
IS: 7" Return.
FF: B.O.B. @ 6 min.
FS: 10" Return.



PRESSURE SUMMARY

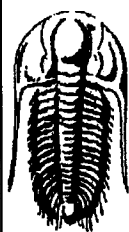
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2196.80	106.88	Initial Hydro-static
2	109.81	108.33	Open To Flow (1)
30	328.72	119.99	Shut-In(1)
75	787.90	115.30	End Shut-In(1)
76	339.96	115.70	Open To Flow (2)
136	579.19	120.30	Shut-In(2)
227	791.53	117.05	End Shut-In(2)
229	2159.72	116.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MMV 10%M 90%W	0.59
1055.00	W 100%W popping gas	14.80
62.00	OSMMV 5%M 95%W	0.87
45.00	OCW 15%O 85%W	0.63
0.00	RW: .120 @ 61 Degrees F = 60000 PPM	0.00
0.00	744 Feet GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

Vulgamore #1-31

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206
ATTN: Wes Hansen

31-19-33 Scott, KS

Job Ticket: 36979

DST#: 1

Test Start: 2010.03.02 @ 06:48:00

Tool Information

Drill Pipe:	Length: 4331.00 ft	Diameter: 3.80 inches	Volume: 60.75 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	61.34 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.50 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4448.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	49.50 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4421.50	
Shut In Tool	5.00			4426.50	
Hydraulic tool	5.00			4431.50	
Jars	5.00			4436.50	
Safety Joint	2.50			4439.00	
Packer	5.00			4444.00	27.50 Bottom Of Top Packer
Packer	4.00			4448.00	
Stubb	1.00			4449.00	
Perforations	1.00			4450.00	
Recorder	0.00	8351	Inside	4450.00	
Recorder	0.00	8359	Outside	4450.00	
Perforations	15.00			4465.00	
Bullnose	5.00			4470.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.50



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

Vulgamore #1-31

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206
ATTN: Wes Hansen

31-19-33 Scott, KS

Job Ticket: 36979

DST#: 1

Test Start: 2010.03.02 @ 06:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 10%M 90%W	0.590
1055.00	W 100%W popping gas	14.799
62.00	OSMW 5%M 95%W	0.870
45.00	OCW 15%O 85%W	0.631
0.00	RW: .120 @ 61 Degrees F = 60000 PPM	0.000
0.00	744 Feet GIP	0.000

Total Length: 1282.00 ft

Total Volume: 16.890 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

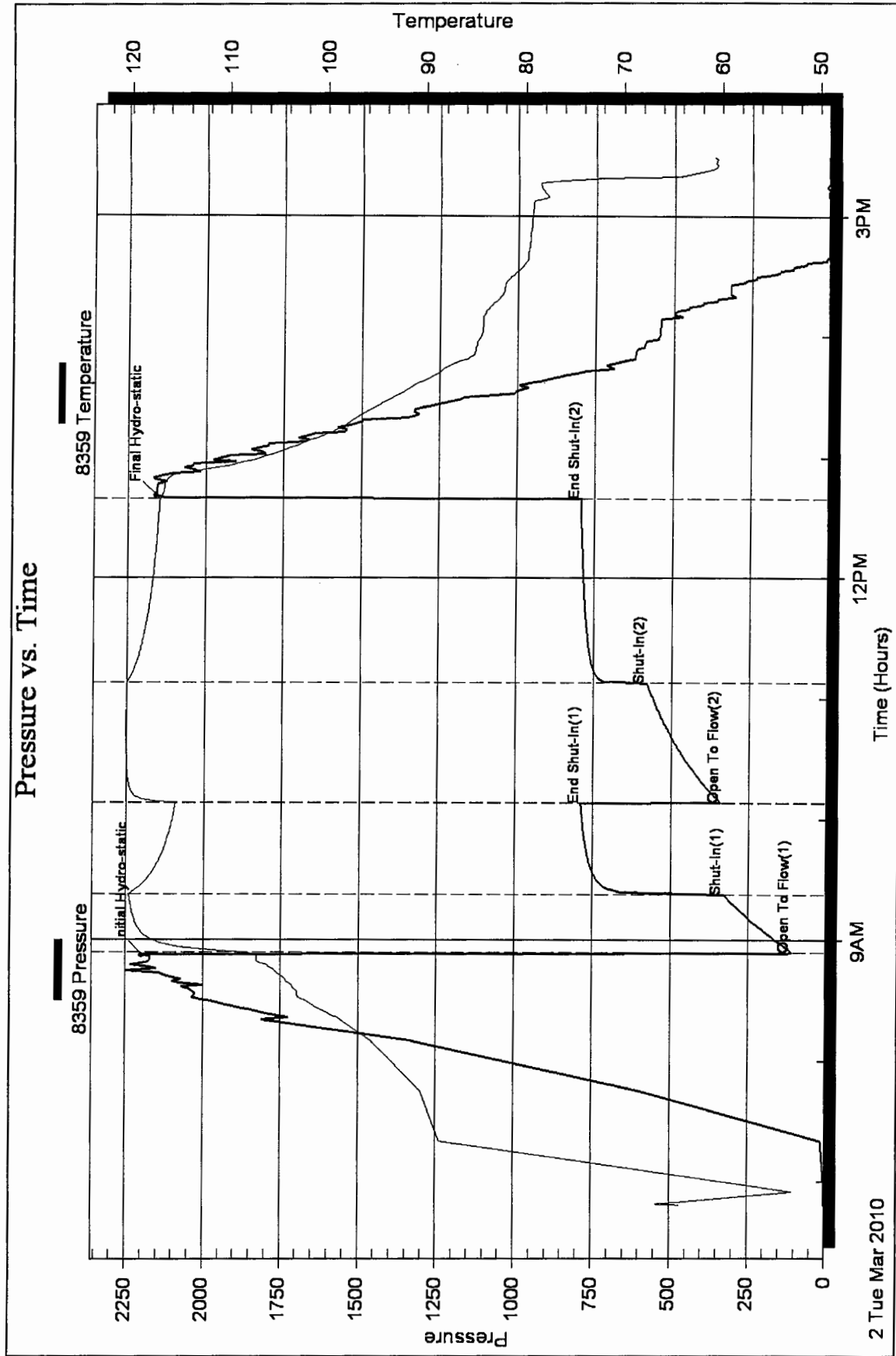
Recovery Comments:

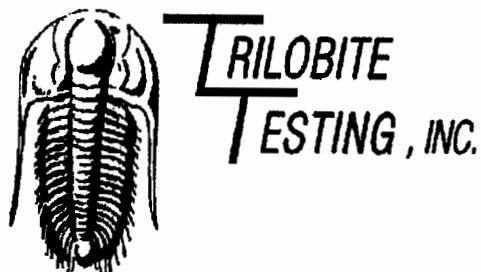
Serial #: 8359

Outside Grand Mesa Operating

31-19-33 Scott, KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206

ATTN: Wes Hansen

31-19-33 Scott, KS

Vulgamore #1-31

Start Date: 2010.03.03 @ 13:18:05

End Date: 2010.03.03 @ 19:00:52

Job Ticket #: 36980 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Grand Mesa Operating

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206
ATTN: Wes Hansen

Vulgamore #1-31

31-19-33 Scott, KS

Job Ticket: 36980

DST#: 2

Test Start: 2010.03.03 @ 13:18:05

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:07:05

Time Test Ended: 19:00:52

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4660.00 ft (KB) To 4703.00 ft (KB) (TVD)**

Total Depth: **4703.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2994.00 ft (KB)

2989.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8351

Inside

Press@RunDepth: 29.90 psig @ 4664.00 ft (KB)

Start Date: 2010.03.03

End Date:

2010.03.03

Start Time: 13:18:06

End Time:

19:00:53

Capacity: 8000.00 psig

Last Calib.: 2010.03.03

Time On Btm: 2010.03.03 @ 15:06:05

Time Off Btm: 2010.03.03 @ 17:10:29

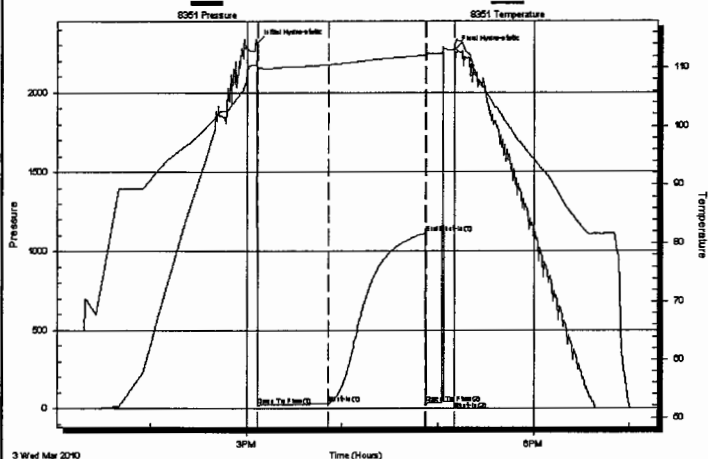
TEST COMMENT: IF: 3/4" Blow.

IS: No return.

FF: No blow, flushed tool @ 10 min., surge died, pulled tool.

FS: N/A

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2313.38	110.51	Initial Hydro-static
1	20.92	109.53	Open To Flow (1)
46	29.90	110.50	Shut-In(1)
106	1111.53	112.15	End Shut-In(1)
107	33.50	111.99	Open To Flow (2)
124	42.92	113.09	Shut-In(2)
125	2272.62	113.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OSM	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

Vulgamore #1-31

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206
ATTN: Wes Hansen

31-19-33 Scott, KS

Job Ticket: 36980

DST#: 2

Test Start: 2010.03.03 @ 13:18:05

Tool Information

Drill Pipe:	Length: 4520.00 ft	Diameter: 3.80 inches	Volume: 63.40 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 63.99 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	7.50 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4660.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	70.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4633.50	
Shut In Tool	5.00			4638.50	
Hydraulic tool	5.00			4643.50	
Jars	5.00			4648.50	
Safety Joint	2.50			4651.00	
Packer	5.00			4656.00	27.50 Bottom Of Top Packer
Packer	4.00			4660.00	
Stubb	1.00			4661.00	
Perforations	3.00			4664.00	
Recorder	0.00	8351	Inside	4664.00	
Recorder	0.00	8359	Outside	4664.00	
Perforations	4.00			4668.00	
Change Over Sub	1.00			4669.00	
Drill Pipe	31.00			4700.00	
Change Over Sub	1.00			4701.00	
Bullnose	2.00			4703.00	43.00 Bottom Packers & Anchor
Total Tool Length:	70.50				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

Vulgamore #1-31

1700 N. Waterfront Pkwy.

31-19-33 Scott, KS

Building 600

Job Ticket: 36980

DST#: 2

Wichita, KS 67206

Test Start: 2010.03.03 @ 13:18:05

ATTN: Wes Hansen

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OSM	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

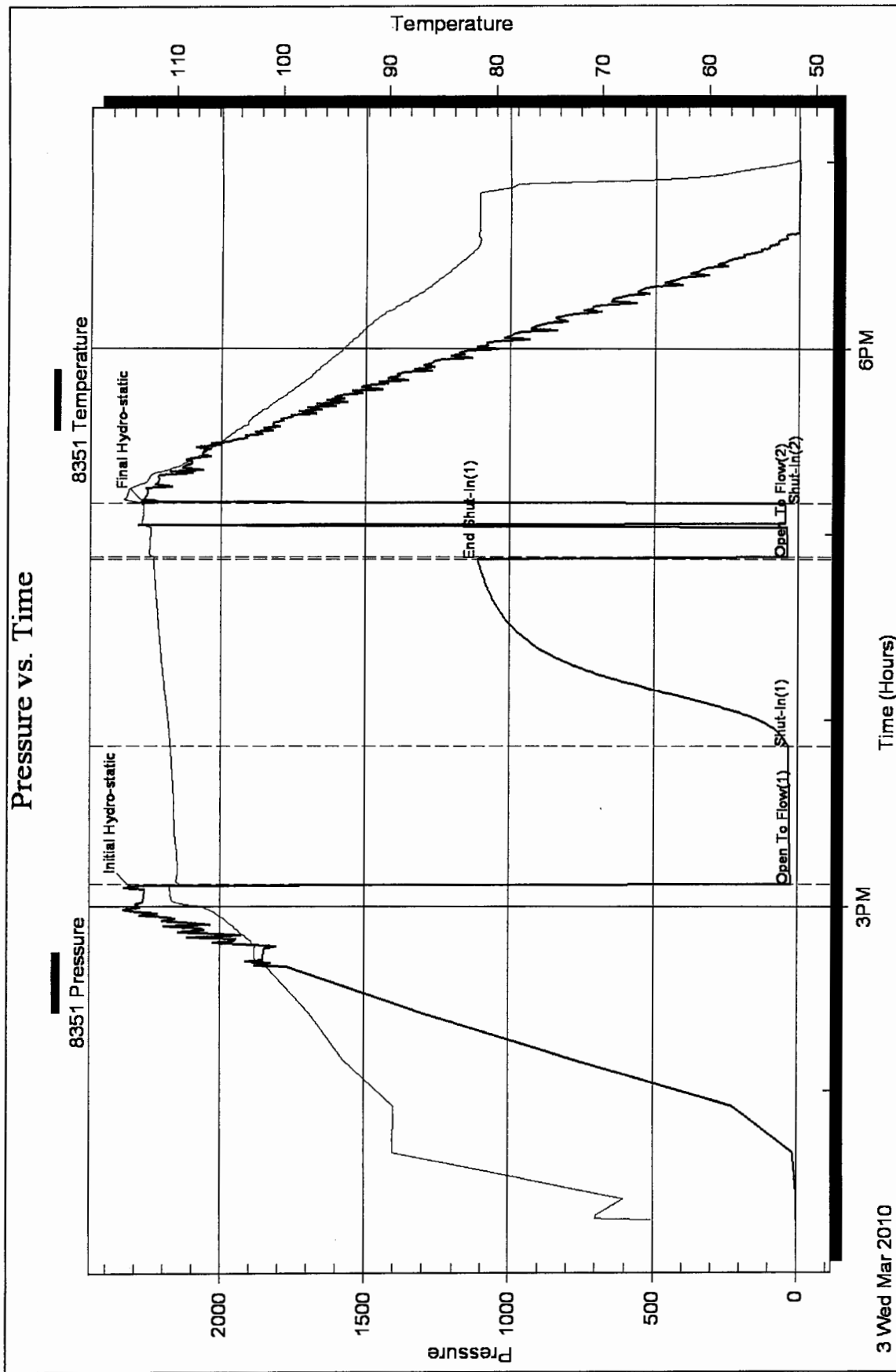
Serial #: 8351

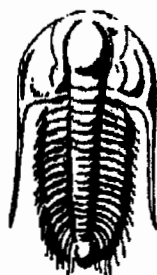
Inside

Grand Mesa Operating

31-19-33 Scott, KS

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206

ATTN: Wes Hansen

31-19-33 Scott, KS

Vulgamore #1-31

Start Date: 2010.03.04 @ 01:59:05

End Date: 2010.03.04 @ 08:59:41

Job Ticket #: 36981 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Grand Mesa Operating

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206
ATTN: Wes Hansen

Vulgamore #1-31

31-19-33 Scott, KS

Job Ticket: 36981

DST#: 3

Test Start: 2010.03.04 @ 01:59:05

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:57:41

Time Test Ended: 08:59:41

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4700.00 ft (KB) To 4720.00 ft (KB) (TVD)**

Total Depth: 4720.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2994.00 ft (KB)

2989.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8351 Inside

Press@RunDepth: 37.75 psig @ 4705.00 ft (KB)

Start Date: 2010.03.04

End Date:

2010.03.04

Start Time: 01:59:06

End Time:

08:59:41

Capacity: 8000.00 psig

Last Calib.: 2010.03.04

Time On Btm: 2010.03.04 @ 03:56:53

Time Off Btm: 2010.03.04 @ 07:02:05

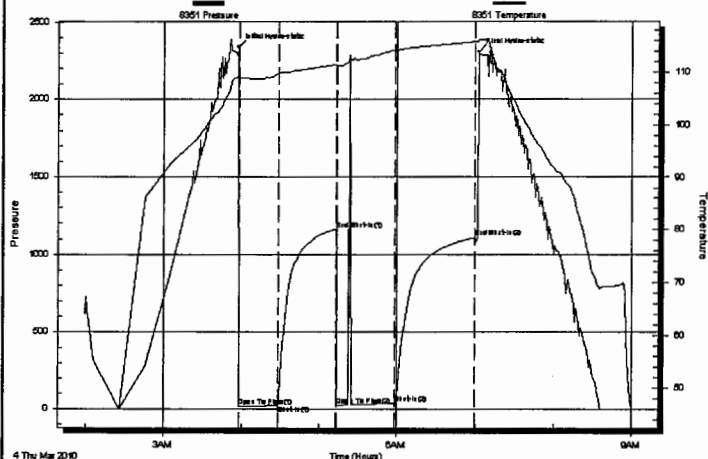
TEST COMMENT: IF: 1" Blow.

IS: No return.

FF: No blow, flushed tool @ 10 min., weak surface blow throughout.

FSI: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2338.15	109.03	Initial Hydro-static
1	17.23	108.67	Open To Flow (1)
31	24.61	109.71	Shut-In(1)
77	1162.63	111.46	End Shut-In(1)
77	27.20	111.10	Open To Flow (2)
122	37.75	114.15	Shut-In(2)
183	1108.45	115.78	End Shut-In(2)
186	2308.58	116.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OSM 100%M	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

Vulgamore #1-31

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206
ATTN: Wes Hansen

31-19-33 Scott, KS

Job Ticket: 36981

DST#: 3

Test Start: 2010.03.04 @ 01:59:05

Tool Information

Drill Pipe:	Length: 4581.00 ft	Diameter: 3.80 inches	Volume: 64.26 bbl	Tool Weight:	2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	64.85 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.50 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4700.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	47.50 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4673.50	
Shut In Tool	5.00			4678.50	
Hydraulic tool	5.00			4683.50	
Jars	5.00			4688.50	
Safety Joint	2.50			4691.00	
Packer	5.00			4696.00	27.50 Bottom Of Top Packer
Packer	4.00			4700.00	
Stubb	1.00			4701.00	
Perforations	4.00			4705.00	
Recorder	0.00	8351	Inside	4705.00	
Recorder	0.00	8359	Outside	4705.00	
Perforations	10.00			4715.00	
Bullnose	5.00			4720.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.50



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

Vulgamore #1-31

1700 N. Waterfront Pkwy.
Building 600
Wichita, KS 67206
ATTN: Wes Hansen

31-19-33 Scott, KS

Job Ticket: 36981

DST#: 3

Test Start: 2010.03.04 @ 01:59:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OSM 100%M	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

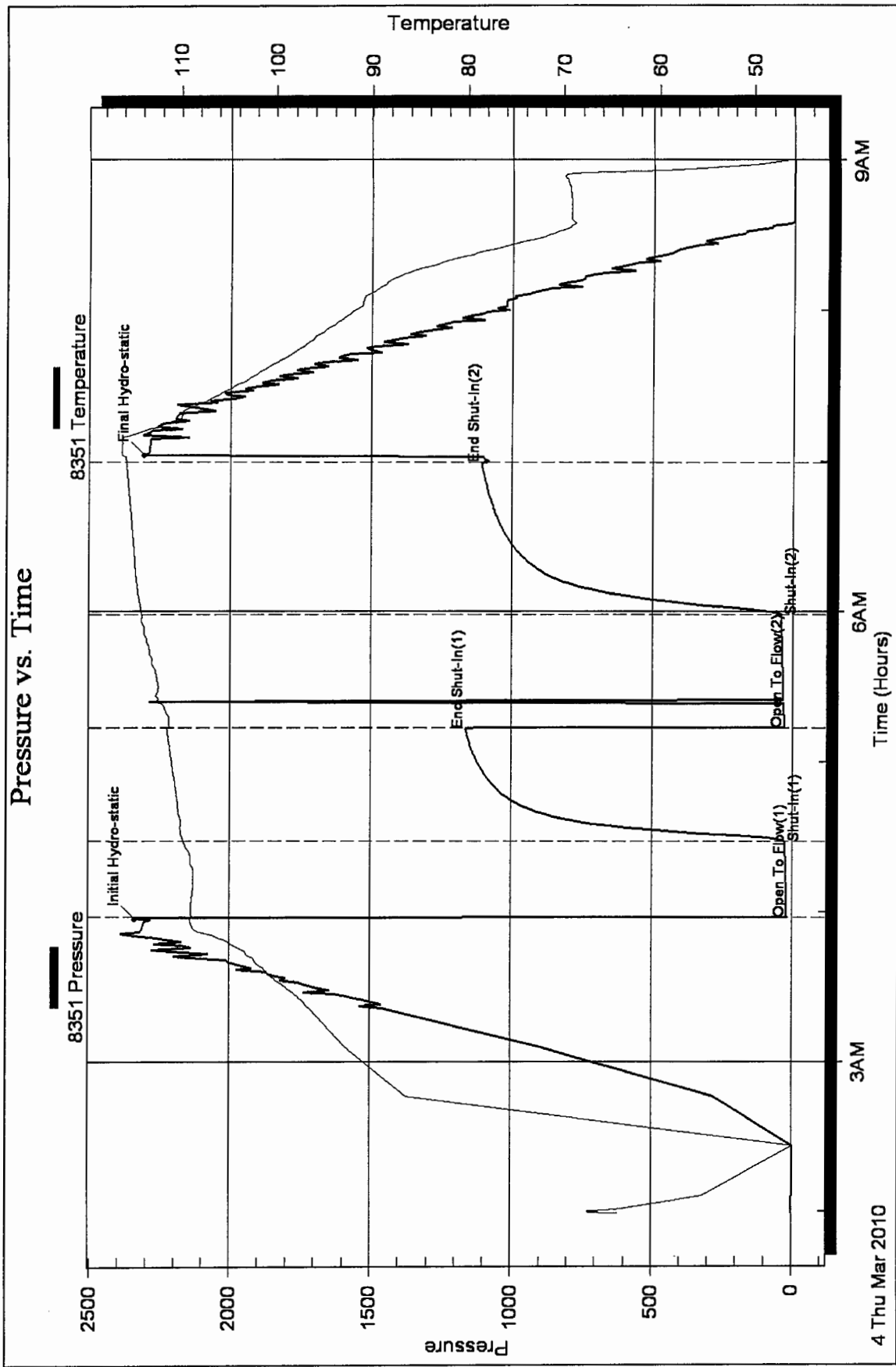
Num Gas Bombs: 0

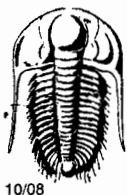
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 08 2010

Test Ticket

NO. 36979 13986

Well Name & No. Vulgamore #1-31 Test No. 1 Date 3-2-10
 Company Grand Mesa Elevation 2994 KB 2989 GL
 Address 1700 Waterfront Pkwy. Bldg. 600 Wichita, KS 67206
 Co. Rep / Geo. Wes Hansen Rig M.D.C. #24
 Location: Sec. 31 Twp. 19 Rge. 33 Co. SCOTT State KS

Interval Tested 4448 - 4470 Zone Tested Upper Ft. Scott
 Anchor Length 22 Drill Pipe Run 4,331 Mud Wt. 9.2
 Top Packer Depth 4444 Drill Collars Run 120 Vis 46
 Bottom Packer Depth 4448 Wt. Pipe Run 0 WL 8.0
 Total Depth 4470 Chlorides 2000 ppm System LCM 2

Blow Description IF: B.O.B. @ 3 min.

ISI: 7" Return

FF: B.O.B. @ 6 min.

FSI: 10" Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>OCW</u>	<u>15</u>	<u>85</u>	<u>0</u>	<u>0</u>
<u>62</u>	<u>OSMW</u>	<u>0</u>	<u>95</u>	<u>5</u>	<u>0</u>
<u>1054</u>	<u>W popping gas</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>0</u>
<u>120</u>	<u>MW</u>	<u>0</u>	<u>90</u>	<u>10</u>	<u>0</u>

Rec Total 1282 BHT 117 Gravity - API RW 120 @ 66 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic 2,197
 (B) First Initial Flow 110
 (C) First Final Flow 329
 (D) Initial Shut-In 789
 (E) Second Initial Flow 340
 (F) Second Final Flow 579
 (G) Final Shut-In 792
 (H) Final Hydrostatic 2,160

☐ Test 1,150-
☒ Jars 250-
☒ Safety Joint 75-
☒ Circ Sub N/C
☐ Hourly Standby
☐ Mileage 28RT 28-
☐ Sampler
☐ Straddle

T-On Location 6:15
 T-Started 6:48
 T-Open 8:54
 T-Pulled 12:39
 T-Out 15:29

Comments 744' GIP

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

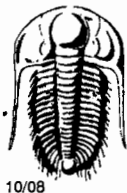
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1503-

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1503-

Approved By Wesley Hansen

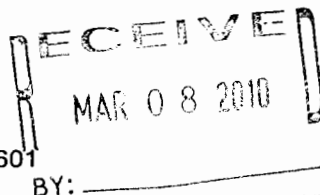
Our Representative Chuck Smith

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601



Test Ticket

NO. 36980

Well Name & No. Vulgamore #1-31 Test No. 2 Date 3-3-10
 Company Grand Mesa Elevation 2994 KB 2989 GL
 Address 1700 N. Waterfront Pkwy. Bldg. 600 Wichita, KS 67206
 Co. Rep / Geo. Wes Hansen Rig M.D.C. #24
 Location: Sec. 31 Twp. 19 Rge. 33 Co. Scott State KS

Interval Tested 4660 - 4703 Zone Tested Morrow
 Anchor Length 43 Drill Pipe Run 4520 Mud Wt. 9.3
 Top Packer Depth 4656 Drill Collars Run 120 Vis 48
 Bottom Packer Depth 4660 Wt. Pipe Run 0 WL 6.4
 Total Depth 4703 Chlorides 2,500 ppm System LCM 1

Blow Description IF: 3/4" Blow
ISI: No return.
FF: No blow, flushed tool @ 10 min., surge died, pulled tool.
FSI: N/A

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>30</u>	Feet of <u>OSM</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 112 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2,313
 (B) First Initial Flow 21
 (C) First Final Flow 30
 (D) Initial Shut-In 1,112
 (E) Second Initial Flow 34
 (F) Second Final Flow 43
 (G) Final Shut-In N/A
 (H) Final Hydrostatic 2,273

☐ Test 1,150'
☐ Jars 250'
☐ Safety Joint 75'
☒ Circ Sub N/A
☐ Hourly Standby
☐ Mileage 28RT 28'
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1503'

T-On Location 13:00
 T-Started 13:18
 T-Open 15:07
 T-Pulled 17:10
 T-Out 19:01
 Comments
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1503'

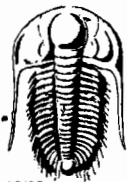
Initial Open 45
 Initial Shut-In 60
 Final Flow 17 incl. flush
 Final Shut-In -

Approved By

Our Representative

Chuck Smith

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 08 2010

Test Ticket

NO. 36981

10/08

Well Name & No. Vulgamore #1-31 Test No. 3 Date 3-4-10
 Company Grand Mesa Elevation 2994 KB 2989 GL
 Address 1700 N. Waterfront Pkwy. Bldg. 600 Wichita, KS 67206
 Co. Rep / Geo. Wes Hansen Rig MDC*24
 Location: Sec. 31 Twp. 19 Rge. 33 Co. Scott State KS

Interval Tested 4700 - 4720 Zone Tested Morrow
 Anchor Length 20 Drill Pipe Run 4,581 Mud Wt. 9.4
 Top Packer Depth 4696 Drill Collars Run 120 Vis 49
 Bottom Packer Depth 4700 Wt. Pipe Run 0 WL 6.4
 Total Depth 4720 Chlorides 2500 ppm System LCM 2

Blow Description IF: 1" Blow.
ISI: No return.
FF: No blow, flushed tool @ 10 min, weak surface blow.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>30</u>	Feet of <u>0.5M</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 116 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2,338
 (B) First Initial Flow 17
 (C) First Final Flow 25
 (D) Initial Shut-In 1,163
 (E) Second Initial Flow 27
 (F) Second Final Flow 38
 (G) Final Shut-In 1,108
 (H) Final Hydrostatic 2,309

☐ Test 1,150
☐ Jars 250
☐ Safety Joint 75
☒ Circ Sub N/C
☐ Hourly Standby
☐ Mileage 28RT 28
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1503

T-On Location 1:45
 T-Started 1:59
 T-Open 3:58
 T-Pulled 6:59
 T-Out 9:00
 Comments 28RT Pick up tool
2800
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 28
 Total 1531

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Approved By Wesley Hansen

Our Representative Chuck Smith

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.