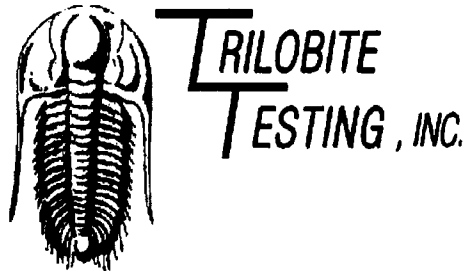


15-007-23440

28-33s-10w



DRILL STEM TEST REPORT

CONFIDENTIAL
NOV 05 2009
KCC

Prepared For: **Woolsey Operating LLC.**

125 N Market STE 1000
Wichita KS 67202

ATTN: Bill Klaver

28 33s 10w Barber KS

Spicer C G. C. #2

Start Date: 2009.07.18 @ 17:57:55

End Date: 2009.07.19 @ 05:09:40

Job Ticket #: 33900 DST #: 1

RECEIVED

NOV 06 2009

KCC WICHITA

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating LLC.

125 N Market STE 1000
Wichita KS 67202

ATTN: Bill Klaver

Spicer C G. C. #2

28 33s 10w Barber KS

Job Ticket: 33900

DST#: 1

Test Start: 2009.07.18 @ 17:57:55

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:10

Time Test Ended: 05:09:40

Test Type: Conventional Bottom Hole

Tester: Kevin Taylor

Unit No: 31

Interval: **4485.00 ft (KB) To 4605.00 ft (KB) (TVD)**

Total Depth: 4605.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1447.00 ft (KB)

1437.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8358 Inside

Press@RunDepth: 181.97 psig @ 4486.00 ft (KB)

Start Date: 2009.07.18

End Date:

2009.07.19

Start Time: 17:58:00

End Time:

05:09:40

Capacity: 7000.00 psig

Last Calib.: 2009.07.19

Time On Btm: 2009.07.18 @ 21:15:40

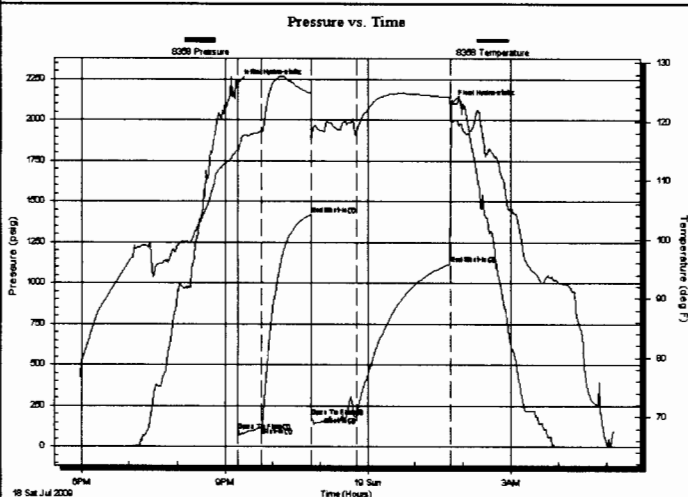
Time Off Btm: 2009.07.19 @ 01:45:25

TEST COMMENT: I.F. Strong Blow B.O.B. 45 Sec G.T.S. 20 Min (See GasFlow Report)

I.S.I. Bled Off 10 Min No Blow

F.F. Strong Blow B.O.B. Immediately G.T.S. (See Gas Flow Report)

F.S.I. Bled Off 10 Min No Blow



PRESSURE SUMMARY

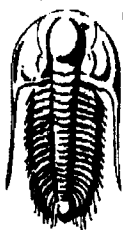
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.90	115.37	Initial Hydro-static
1	94.48	115.14	Open To Flow (1)
30	118.28	118.35	Shut-In (1)
92	1419.44	124.73	End Shut-In (1)
93	184.06	116.58	Open To Flow (2)
151	181.97	117.94	Shut-In (2)
269	1120.89	124.11	End Shut-In (2)
270	2100.19	122.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	GSY Mud Oil Spots 35%G 65%M	0.90
61.00	GSY Mud Oil Spots 5%G 95% M	0.45
183.00	GSY Mud Oil Spots 3%G 97%M	2.68
0.00	3984 Gas In Pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.50	6.27
Last Gas Rate	0.25	6.00	32.09
Max. Gas Rate	0.25	10.00	38.38



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating LLC.

Spicer C G. C. #2

125 N Market STE 1000
Wichita KS 67202

28 33s 10w Barber KS

Job Ticket: 33900

DST#: 1

ATTN: Bill Klaver

Test Start: 2009.07.18 @ 17:57:55

Tool Information

Drill Pipe:	Length: 4350.00 ft	Diameter: 3.88 inches	Volume: 63.62 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: 30000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.75 inches	Volume: 1.34 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 64.96 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	76.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4485.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	120.00 ft			
Tool Length:	148.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4462.00	
Hydraulic tool	5.00			4467.00	
Jars	5.00			4472.00	
Safety Joint	3.00			4475.00	
Packer	5.00			4480.00	28.00 Bottom Of Top Packer
Packer	5.00			4485.00	
Stubb	1.00			4486.00	
Recorder	0.00	8358	Inside	4486.00	
Recorder	0.00	6668	Inside	4486.00	
Perforations	4.00			4490.00	
Change Over Sub	1.00			4491.00	
Drill Pipe	93.00			4584.00	
Change Over Sub	1.00			4585.00	
Perforations	17.00			4602.00	
Bullnose	3.00			4605.00	120.00 Bottom Packers & Anchor

Total Tool Length: 148.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating LLC.

Spicer C G. C. #2

125 N Market STE 1000
Wichita KS 67202

28 33s 10w Barber KS

Job Ticket: 33900

DST#: 1

ATTN: Bill Klaver

Test Start: 2009.07.18 @ 17:57:55

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 45000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	GSY Mud Oil Spots 35%G 65%M	0.896
61.00	GSY Mud Oil Spots 5%G 95% M	0.448
183.00	GSY Mud Oil Spots 3%G 97%M	2.676
0.00	3984 Gas In Pipe	0.000

Total Length: 366.00 ft

Total Volume: 4.020 bbl

Num Fluid Samples: 0

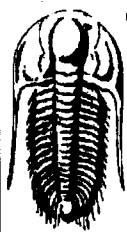
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating LLC.

Spicer C G. C. #2

125 N Market STE 1000
Wichita KS 67202

28 33s 10w Barber KS

Job Ticket: 33900

DST#: 1

ATTN: Bill Klaver

Test Start: 2009.07.18 @ 17:57:55

Gas Rates Information

Temperature: 68 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
1	25	0.13	2.50	6.27
1	25	0.13	2.50	6.27
1	30	0.13	3.00	6.46
2	10	0.38	9.00	84.98
2	20	0.25	6.00	32.09
2	30	0.25	8.00	35.23
2	50	0.25	10.00	38.38
2	60	0.25	6.00	32.09

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KCC

DST Test Number: 1

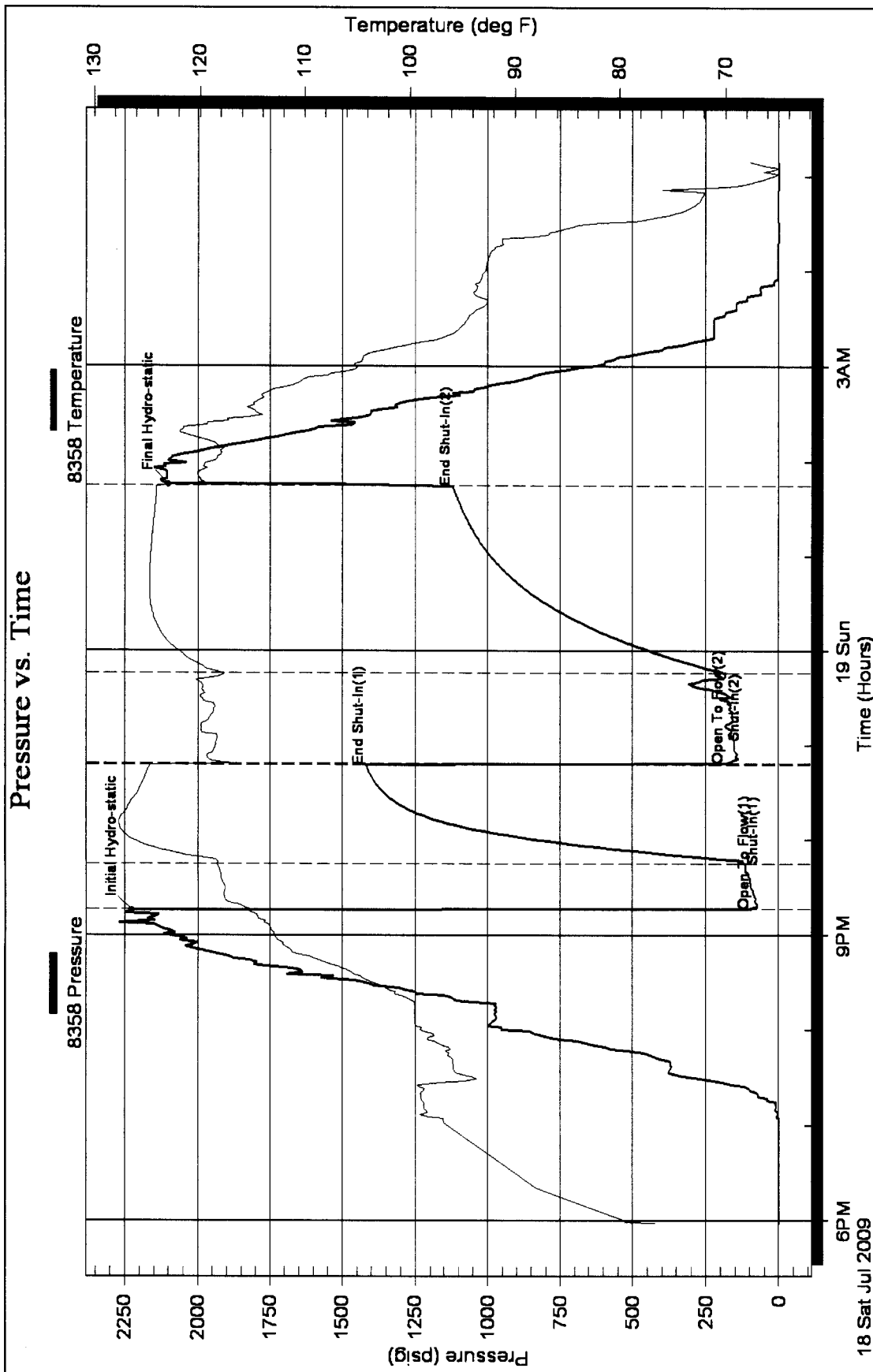
28 33s 10w Barber KS

Woodsey Operating LLC.

Inside

Serial #: 8358

Pressure vs. Time



Ref. No: 33900

Trilobite Testing, Inc

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