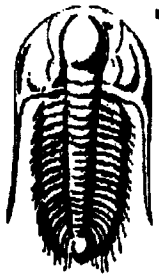
15-141-20415 23-8s-14w IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bruce Oil Co.**

1704 Limestone Rd
Mcpherson, Ks 67460

ATTN: Lonny Bruce

23-8s-14w Osborne,Ks

Schultze #1

Start Date: 2010.08.31 @ 00:14:01
End Date: 2010.08.31 @ 06:25:01
Job Ticket #: 40337 DST #: 1

KCC
OCT 1 4 2010
CONFIDENTIAL

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OCT 1 4 2010
KCC WICHITA

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

Bruce Oil Co. Schultze #1 23-8s-14w Osborne,Ks DST # 1 Topeka 2010.08.31

DRILL STEM TEST REPORT

Bruce Oil Co.

1704 Limestone Rd
Mcpherson, Ks 67460

ATTN: Lonny Bruce

Schultze #1

23-8s-14w Osborne,Ks

Job Ticket: 40337 **DST#: 1**

Test Start: 2010.08.31 @ 00:14:01

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:54:31
Time Test Ended: 06:25:01

Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47

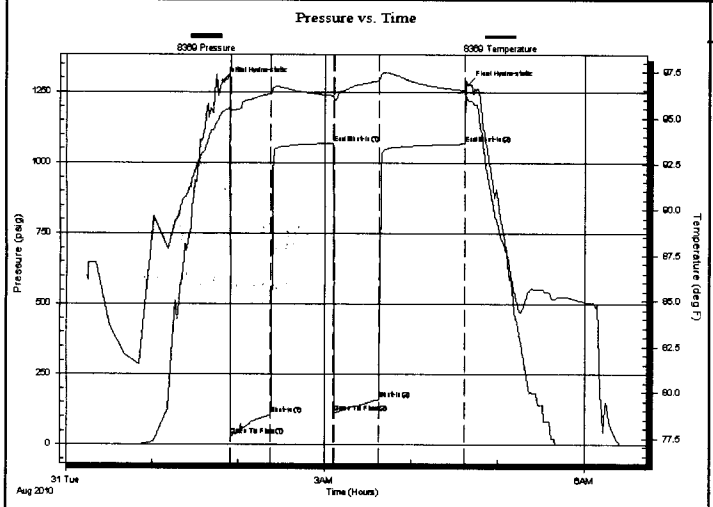
Interval: 2767.00 ft (KB) To 2787.00 ft (KB) (TVD)
Total Depth: 2787.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1813.00 ft (KB)
1808.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 160.61 psig @ 2768.00 ft (KB)
Start Date: 2010.08.31 End Date: 2010.08.31
Start Time: 00:14:06 End Time: 06:25:00

Capacity: 8000.00 psig
Last Calib.: 2010.08.31
Time On Btm: 2010.08.31 @ 01:48:31
Time Off Btm: 2010.08.31 @ 04:39:01

TEST COMMENT: IF-No blow
ISI-NO blow
FF-BOB in 4min
FSI-BOB in 1min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1288.88	95.29	Initial Hydro-static
6	31.81	95.34	Open To Flow (1)
34	106.26	96.32	Shut-In(1)
77	1069.00	96.21	End Shut-In(1)
78	115.18	95.97	Open To Flow (2)
109	160.61	97.03	Shut-In(2)
168	1067.26	96.51	End Shut-In(2)
171	1276.54	95.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SGO 5%G 95%O	0.59
280.00	SGO 15%G 85%O	2.79

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bruce Oil Co.

1704 Limestone Rd
Mcpherson, Ks 67460

ATTN: Lonny Bruce

Schultze #1

23-8s-14w Osborne,Ks

Job Ticket: 40337 **DST#: 1**

Test Start: 2010.08.31 @ 00:14:01

Tool Information

Drill Pipe:	Length:	2505.00 ft	Diameter:	3.80 inches	Volume:	35.14 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.70 inches	Volume:	- bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	245.00 ft	Diameter:	2.25 inches	Volume:	1.20 bbl	Weight to Pull Loose:	45000.00 lb
					Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:		11.00 ft					String Weight: Initial	41000.00 lb
Depth to Top Packer:		2767.00 ft					Final	42000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		20.00 ft						
Tool Length:		48.00 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			2740.00		
Shut In Tool	5.00			2745.00		
Hydraulic tool	5.00			2750.00		
Jars	5.00			2755.00		
Safety Joint	2.00			2757.00		
Packer	5.00			2762.00	28.00	Bottom Of Top Packer
Packer	5.00			2767.00		
Stubb	1.00			2768.00		
Recorder	0.00	6719	Inside	2768.00		
Recorder	0.00	8369	Outside	2768.00		
Perforations	16.00			2784.00		
Bullnose	3.00			2787.00	20.00	Bottom Packers & Anchor
Total Tool Length:	**48.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Bruce Oil Co.

1704 Limestone Rd
Mcpherson, Ks 67460

ATTN: Lonny Bruce

Schultze #1

23-8s-14w Osborne,Ks

Job Ticket: 40337 **DST#: 1**

Test Start: 2010.08.31 @ 00:14:01

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	32 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

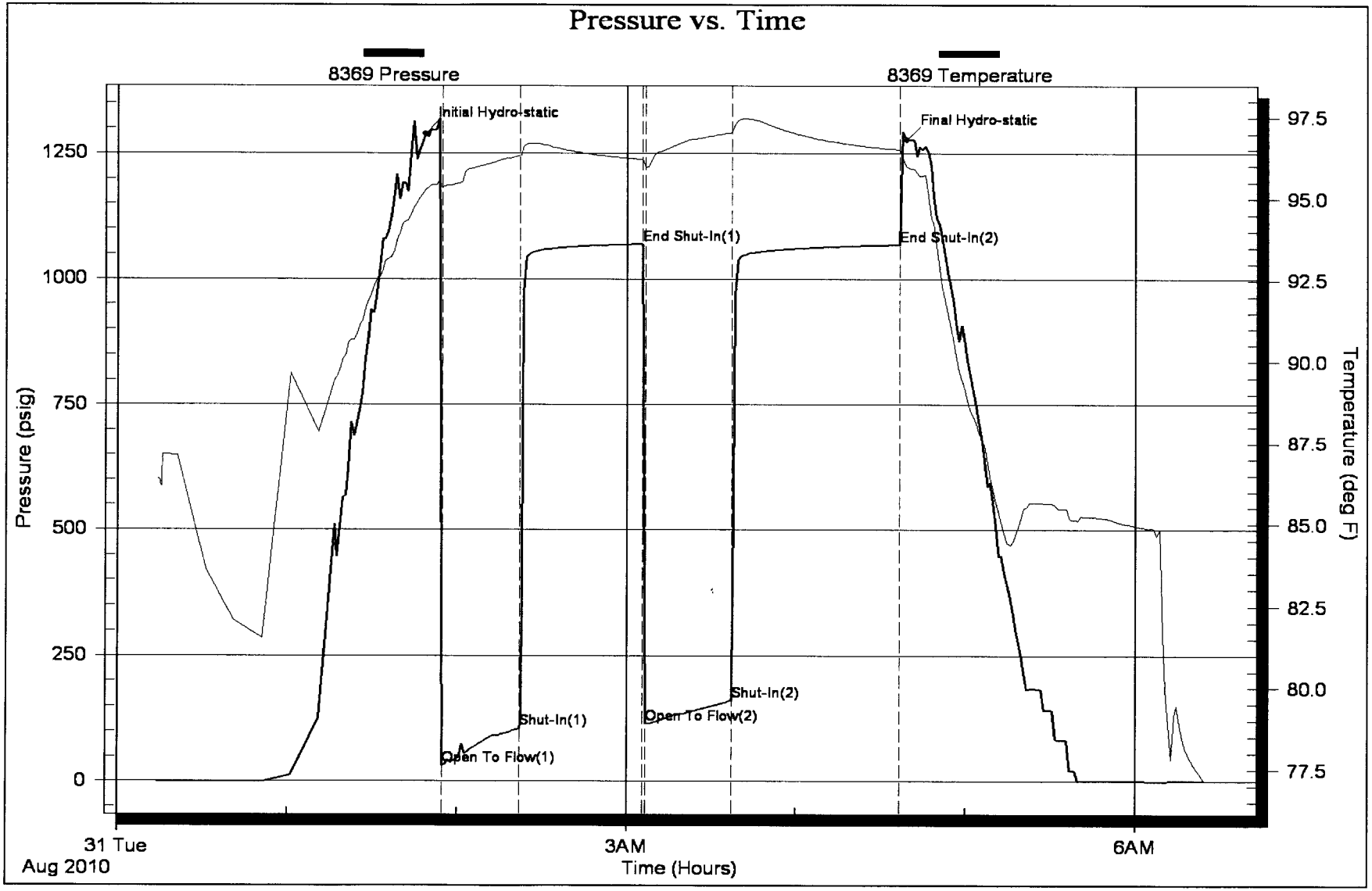
Length ft	Description	Volume bbl
120.00	SGO 5%G 95%O	0.590
280.00	SGO 15%G 85%O	2.789

Total Length: 400.00 ft Total Volume: 3.379 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8369 Pressure
8369 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Open To Flow(1)
Shut-In(2)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
1250
1000
750
500
250
0
97.5
95.0
92.5
90.0
87.5
85.0
82.5
80.0
77.5
31 Tue
Aug 2010
3AM
6AM
Time (Hours)