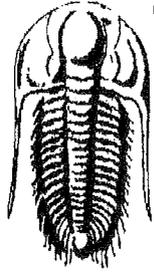


16-18s-27w

K65 ✓

K-101-20130000



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mak J Energy Kansas LLC**

1600 N Broadway Ste1740
Denver CO 80202

ATTN: Bruce Ard

16-18s-27w Lane, Ks

BSQ Stanley #13-16

Start Date: 2008.11.09 @ 22:25:05

End Date: 2008.11.10 @ 05:55:00

Job Ticket #: 33301 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Mak J Energy Kansas LLC

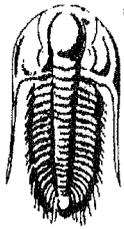
BSQ Stanley #13-16

16-18s-27w Lane, Ks

DST # 1

Ft Scott

2008.11.09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mak J Energy Kansas LLC

1600 N Broadway Ste1740
Denver CO 80202

ATTN: Bruce Ard

BSQ Stanley #13-16

16-18s-27w Lane, Ks

Job Ticket: 33301

DST#: 1

Test Start: 2008.11.09 @ 22:25:05

GENERAL INFORMATION:

Formation: **Ft Scott**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 00:50:15
 Time Test Ended: 05:55:00

Test Type: **Conventional Bottom Hole**
 Tester: **Shane McBride**
 Unit No: **40**

Interval: **4480.00 ft (KB) To 4525.00 ft (KB) (TVD)**
 Total Depth: **4525.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2704.00 ft (KB)**
2693.00 ft (CF)
 KB to GR/CF: **11.00 ft**

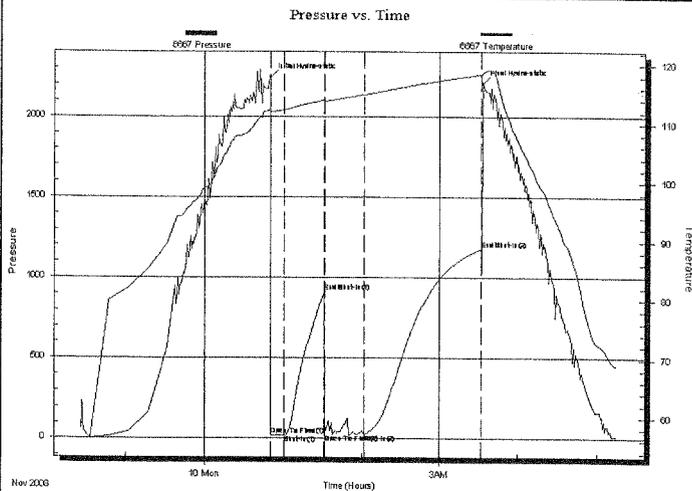
Serial #: 6667

Inside

Press@RunDepth: **23.74 psig @ 4481.00 ft (KB)**
 Start Date: **2008.11.09** End Date: **2008.11.10**
 Start Time: **22:25:05** End Time: **05:15:44**

Capacity: **7000.00 psig**
 Last Calib.: **2008.11.10**
 Time On Btm: **2008.11.10 @ 00:50:00**
 Time Off Btm: **2008.11.10 @ 03:33:15**

TEST COMMENT: Surface blow died in 8 min
 No return
 Bubble to open tool No blow
 No return



PRESSURE SUMMARY

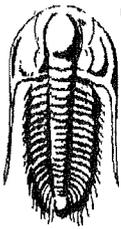
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.66	112.58	Initial Hydro-static
1	18.69	111.71	Open To Flow (1)
10	20.02	112.44	Shut-In(1)
41	910.59	114.12	End Shut-In(1)
42	27.14	113.86	Open To Flow(2)
71	23.74	115.01	Shut-In(2)
162	1177.97	118.50	End Shut-In(2)
164	2206.42	118.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% _m	0.02

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mak J Energy Kansas LLC
1600 N Broadway Ste1740
Denver CO 80202
ATTN: Bruce Ard

BSQ Stanley #13-16
16-18s-27w Lane, Ks
Job Ticket: 33301 **DST#: 1**
Test Start: 2008.11.09 @ 22:25:05

Tool Information

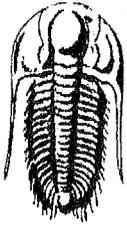
Drill Pipe:	Length: 4167.00 ft	Diameter: 3.80 inches	Volume: 58.45 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 307.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 59.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4480.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	72.00 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			4454.00	
Shut In Tool	5.00			4459.00	
Hydraulic tool	5.00			4464.00	
Jars	5.00			4469.00	
Safety Joint	2.00			4471.00	
Packer	5.00			4476.00	27.00 Bottom Of Top Packer
Packer	4.00			4480.00	
Stubb	1.00			4481.00	
Recorder	0.00	6667	Inside	4481.00	
Recorder	0.00	6771	Outside	4481.00	
Perforations	6.00			4487.00	
Change Over Sub	1.00			4488.00	
Drill Pipe	31.00			4519.00	
Change Over Sub	1.00			4520.00	
Bullnose	5.00			4525.00	45.00 Bottom Packers & Anchor

Total Tool Length: 72.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mak J Energy Kansas LLC

BSQ Stanley #13-16

1600 N Broadway Ste1740
Denver CO 80202

16-18s-27w Lane, Ks

Job Ticket: 33301

DST#: 1

ATTN: Bruce Ard

Test Start: 2008.11.09 @ 22:25:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 7.18 in³

Resistivity: 0.00 ohm.m

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 0 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6667

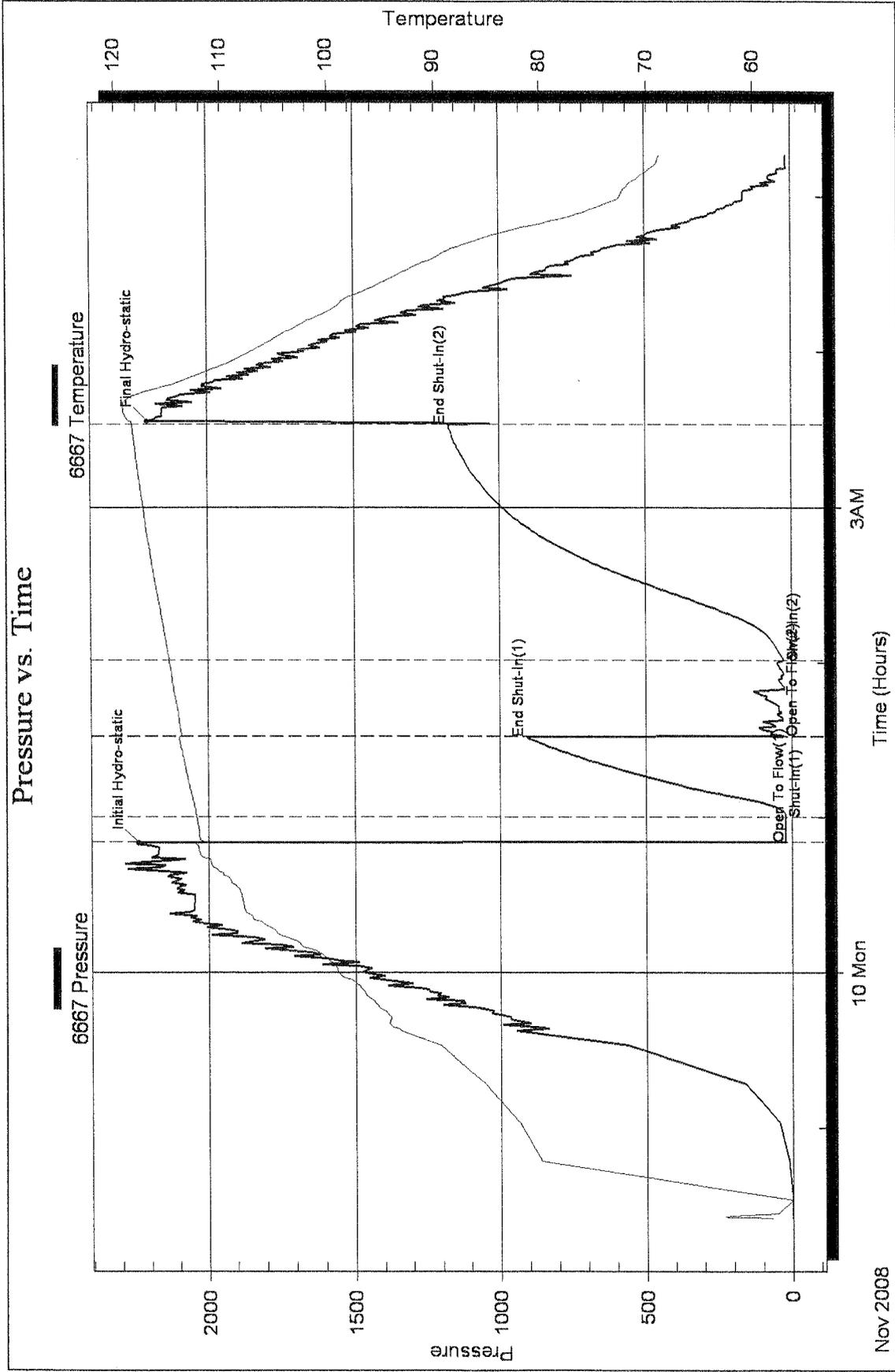
Inside

Mak J Energy Kansas LLC

16-18s-27w Lane, Ks

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mak J Energy Kansas LLC**

1600 N Broadway Ste1740
Denver CO 80202

ATTN: Bruce Ard

16-18s-27w Lane, Ks

BSQ Stanley #13-16

Start Date: 2008.11.10 @ 19:40:05

End Date: 2008.11.11 @ 03:15:00

Job Ticket #: 33302 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

Mak J Energy Kansas LLC
 1600 N Broadway Ste1740
 Denver CO 80202
 ATTN: Bruce Ard

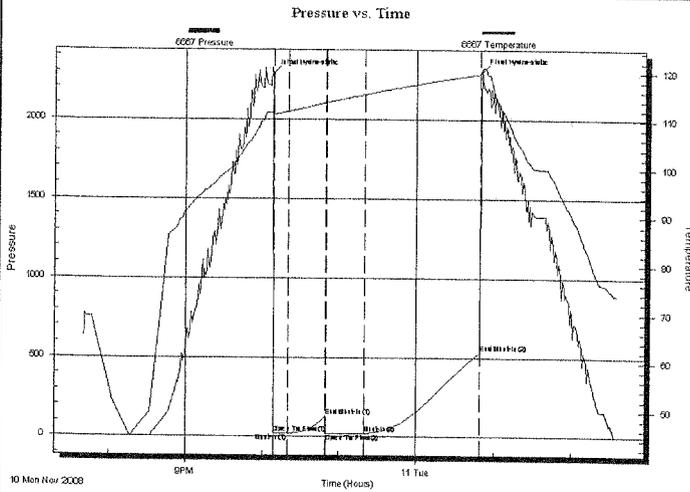
BSQ Stanley #13-16
16-18s-27w Lane, Ks
 Job Ticket: 33302 **DST#: 2**
 Test Start: 2008.11.10 @ 19:40:05

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:09:00
 Time Test Ended: 03:15:00
 Interval: **4570.00 ft (KB) To 4606.00 ft (KB) (TVD)**
 Total Depth: 4606.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 40
 Reference Elevations: 2704.00 ft (KB)
 2693.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6667 Inside
 Press@RunDepth: 18.88 psig @ 4571.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.11.10 End Date: 2008.11.11 Last Calib.: 2008.11.11
 Start Time: 19:40:05 End Time: 02:36:29 Time On Btm: 2008.11.10 @ 22:08:30
 Time Off Btm: 2008.11.11 @ 00:50:29

TEST COMMENT: Weak blow died in 9 1/2 min.
 No return
 Bubble to open tool No blow
 No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2287.77	111.85	Initial Hydro-static
1	18.38	111.38	Open To Flow (1)
12	18.20	111.86	Shut-In (1)
41	128.39	113.72	End Shut-In (1)
42	18.77	113.71	Open To Flow (2)
72	18.88	115.43	Shut-In (2)
161	531.92	119.70	End Shut-In (2)
162	2296.44	120.34	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.01

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mak J Energy Kansas LLC

BSQ Stanley #13-16

1600 N Broadway Ste1740
Denver CO 80202

16-18s-27w Lane, Ks

Job Ticket: 33302

DST#: 2

ATTN: Bruce Ard

Test Start: 2008.11.10 @ 19:40:05

Tool Information

Drill Pipe:	Length: 4263.00 ft	Diameter: 3.80 inches	Volume: 59.80 bbl	Tool Weight: 1500.00 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: 307.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 61.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4570.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.00 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			4544.00	
Shut In Tool	5.00			4549.00	
Hydraulic tool	5.00			4554.00	
Jars	5.00			4559.00	
Safety Joint	2.00			4561.00	
Packer	5.00			4566.00	27.00 Bottom Of Top Packer
Packer	4.00			4570.00	
Stubb	1.00			4571.00	
Recorder	0.00	6667	Inside	4571.00	
Recorder	0.00	6771	Outside	4571.00	
Perforations	30.00			4601.00	
Bullnose	5.00			4606.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mak J Energy Kansas LLC

BSQ Stanley #13-16

1600 N Broadway Ste1740
Denver CO 80202

16-18s-27w Lane, Ks

Job Ticket: 33302

DST#: 2

ATTN: Bruce Ard

Test Start: 2008.11.10 @ 19:40:05

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:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	mud 100% _m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6667

Inside

Mak J Energy Kansas LLC

16-18s-27w Lane, Ks

DST Test Number: 2

Pressure vs. Time

