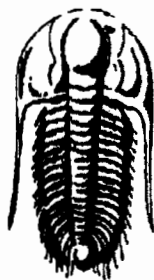


IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Agricultural Energy Services**

PO Box 1040
Liberal KS 67901

ATTN: Tom Williams

23 33 31 Seward KS

Don Thorp # 1

Start Date: 2008.06.30 @ 15:15:00

End Date: 2008.06.30 @ 19:18:00

Job Ticket #: 30976 DST #: 1

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 1040
Liberal KS 67901

ATTN: Tom Williams

Don Thorp # 1

23 33 31 Seward KS

Job Ticket: 30976

DST#: 1

Test Start: 2008.06.30 @ 15:15:00

GENERAL INFORMATION:

Formation: Council Grove

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 19:18:00

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: 2986.00 ft (KB) To 3138.00 ft (KB) (TVD)

Total Depth: 3138.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2762.00 ft (KB)

2751.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8355 Inside

Press@RunDepth: psig @ 2973.22 ft (KB)

Start Date: 2008.06.30

End Date:

2008.06.30

Capacity: 7000.00 psig

Last Calib.: 2008.07.01

Start Time: 15:15:01

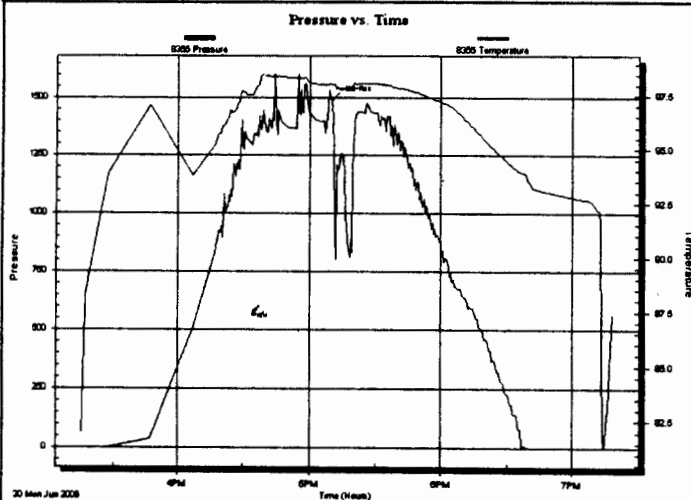
End Time:

19:18:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF Miss Run



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1492.30	98.06	--Miss-Run

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Agricultural Energy Services

Don Thorp # 1

PO Box 1040
Liberal KS 67901

23 33 31 Seward KS

Job Ticket: 30976

DST#: 1

ATTN: Tom Williams

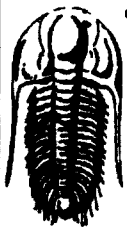
Test Start: 2008.06.30 @ 15:15:00

Tool Information

Drill Pipe:	Length: 2736.00 ft	Diameter: 3.80 inches	Volume: 38.38 bbl	Tool Weight:	2000.00 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	62000.00 lb
		Total Volume:	39.60 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.90 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	2986.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.34 ft				
Tool Length:	28.24 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
P.O. Sub	0.31			2964.41	
C.O. Sub	0.31			2964.72	
P.O. Sub	0.31			2965.03	
Recorder	1.80		Fluid	2966.83	
Conv. S.I. Tool	1.58			2968.41	
Sampler	0.91			2969.32	
HMV	2.10			2971.42	
Recorder	1.80	8355	Inside	2973.22	
Telemetry Tool	7.01			2980.23	
Jars	1.85			2982.08	
Safety Joint	0.72			2982.80	
Packer	1.78			2984.58	21.90 Bottom Of Top Packer
Packer	1.42			2986.00	
Stubb	0.36			2986.36	
Recorder Carrier	2.20			2988.56	
Recorder	0.00	6751	Outside	2988.56	
Perforations	3.00			2991.56	
Blank Spacing	0.00			2991.56	
Bullnose	0.78			2992.34	6.34 Bottom Packers & Anchor
Total Tool Length:		28.24			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

Don Thorp # 1

PO Box 1040
Liberal KS 67901

23 33 31 Seward KS

Job Ticket: 30976

DST#: 1

ATTN: Tom Williams

Test Start: 2008.06.30 @ 15:15:00

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.09 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8355

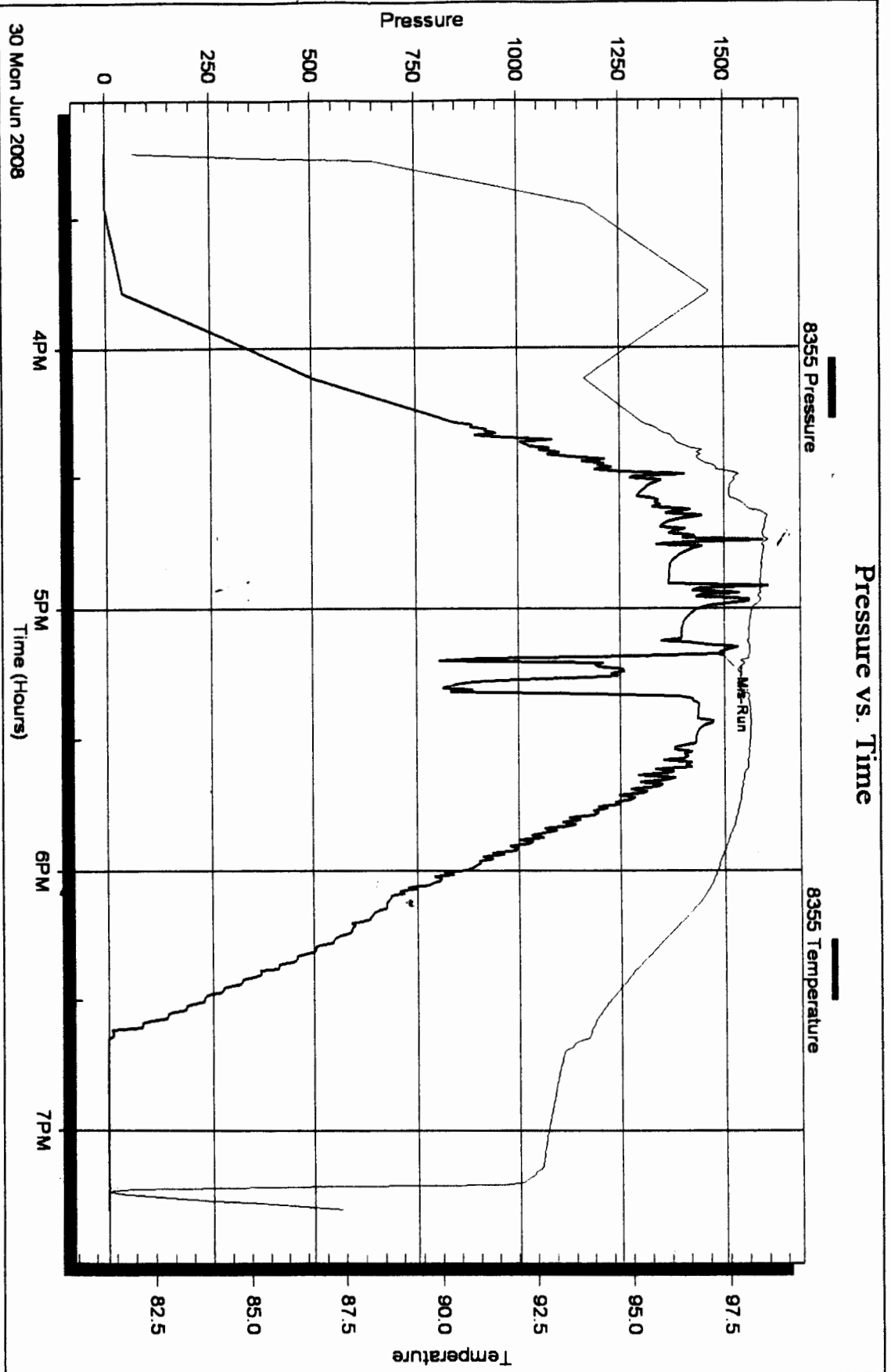
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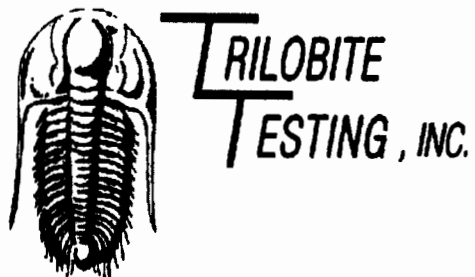
Agricultural Energy Services

23 33 31 Seward KS

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Agricultural Energy Services**

PO Box 1040
Liberal KS 67901

ATTN: Tom Williams

23 33 31 Seward KS

Don Thorp # 1

Start Date: 2008.06.30 @ 19:15:00

End Date: 2008.07.01 @ 03:10:15

Job Ticket #: 30977 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

Agricultural Energy Services

PO Box 1040
Liberal KS 67901

ATTN: Tom Williams

Don Thorp # 1

23 33 31 Seward KS

Job Ticket: 30977

DST#: 2

Test Start: 2008.06.30 @ 19:15:00

GENERAL INFORMATION:

Formation: Council Grove

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:25:45

Time Test Ended: 03:10:15

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: 2956.00 ft (KB) To 3138.00 ft (KB) (TVD)

Total Depth: 3138.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2762.00 ft (KB)

2751.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6751

Inside

Press@RunDepth: 419.72 psig @ 3119.00 ft (KB)

Start Date: 2008.06.30

End Date: 2008.07.01

Start Time: 19:15:01

End Time: 03:10:15

Capacity: 7000.00 psig

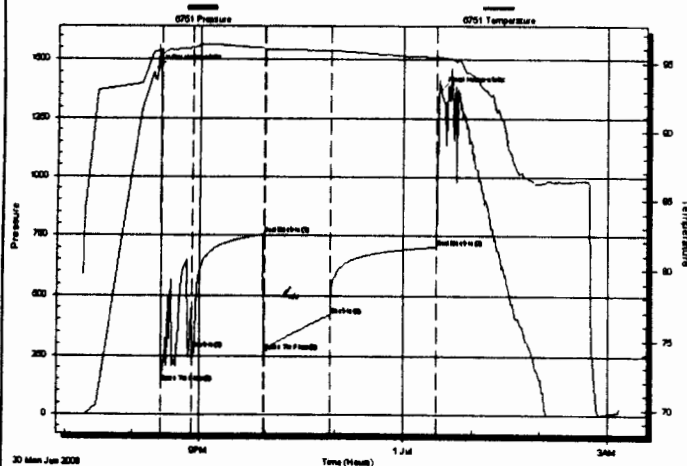
Last Calib.: 2008.07.01

Time On Btm: 2008.06.30 @ 20:21:45

Time Off Btm: 2008.07.01 @ 00:32:45

TEST COMMENT: IF Strong blow BOB ASAO NO GTS
ISI No blow back
FF Strong blow BOB 3 min NO GTS
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

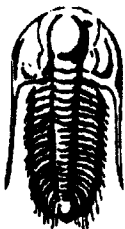
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1462.01	95.86	Initial Hydro-static
4	135.38	95.63	Open To Flow (1)
32	275.38	96.09	Shut-In (1)
96	754.28	96.05	End Shut-In (1)
97	267.24	95.94	Open To Flow (2)
154	419.72	95.85	Shut-In (2)
248	703.26	95.40	End Shut-In (2)
251	1371.82	95.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1350.00	100%W few Ospots	16.68

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Agricultural Energy Services

Don Thorp # 1

PO Box 1040

Liberal KS 67901

23 33 31 Seward KS

Job Ticket: 30977

DST#: 2

ATTN: Tom Williams

Test Start: 2008.06.30 @ 19:15:00

Tool Information

Drill Pipe:	Length: 2705.00 ft	Diameter: 3.80 inches	Volume: 37.94 bbl	Tool Weight: 2000.00 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	39.16 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	2956.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	182.00 ft			
Tool Length:	205.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			2938.00	
Hydraulic tool	5.00			2943.00	
Jars	5.00			2948.00	
Safety Joint	3.00			2951.00	
Packer	5.00			2956.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			2960.00	
Stubb	1.00			2961.00	
Perforations	1.00			2962.00	
Change Over Sub	1.00			2963.00	
Drill Pipe	155.00			3118.00	
Change Over Sub	1.00			3119.00	
Recorder	0.00	6751	Inside	3119.00	
Recorder	0.00	8355	Inside	3119.00	
Perforations	1.00			3120.00	
Perforations	14.00			3134.00	
Bullnose	4.00			3138.00	182.00 Anchor Tool
Total Tool Length:	205.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

Don Thorp # 1

PO Box 1040
Liberal KS 67901

23 33 31 Seward KS

Job Ticket: 30977

DST#: 2

ATTN: Tom Williams

Test Start: 2008.06.30 @ 19:15:00

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:

40000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.09 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1350.00	100%W few Ospots	16.678

Total Length: 1350.00 ft

Total Volume: 16.678 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6751

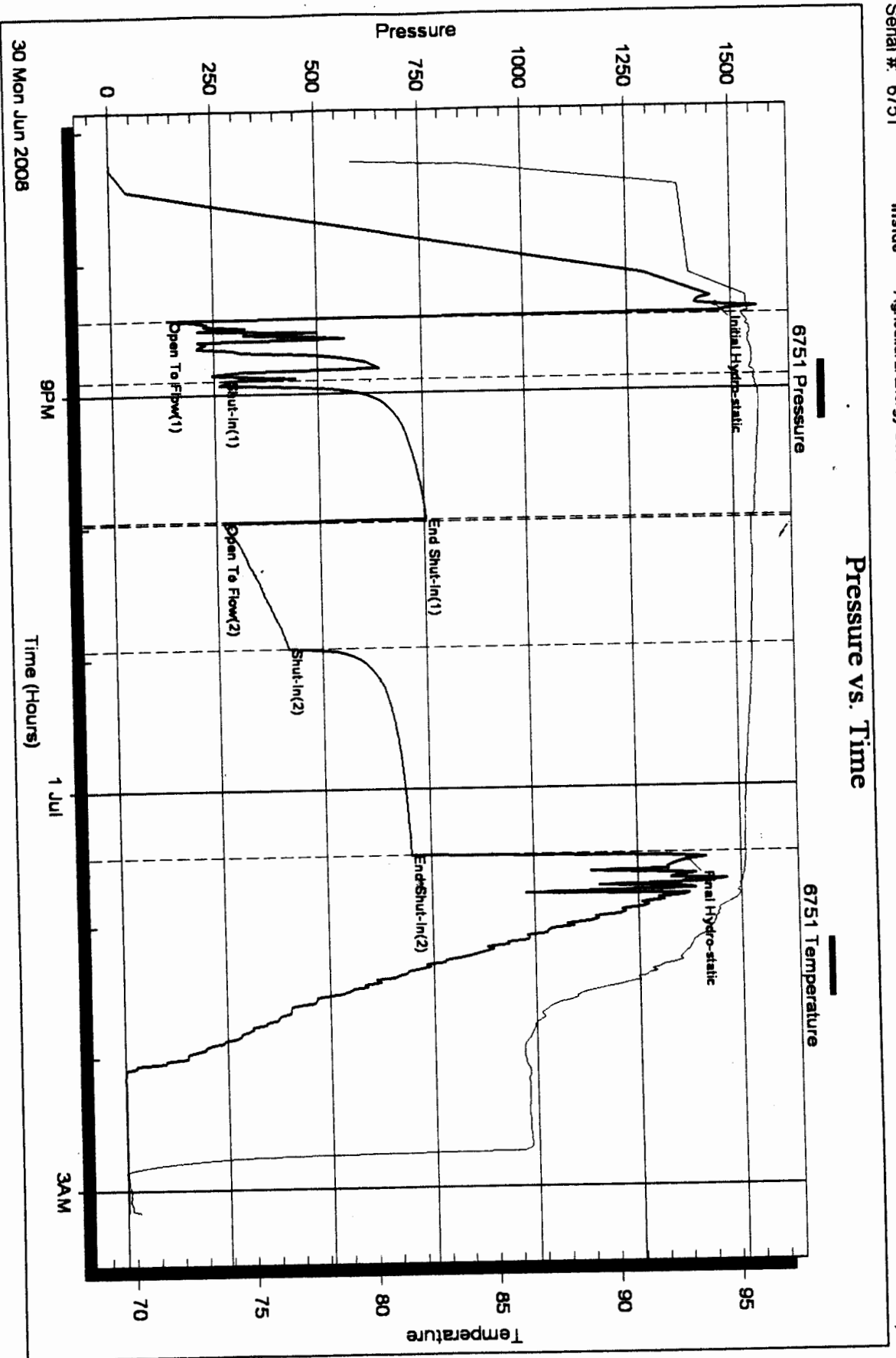
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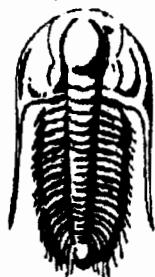
Agricultural Energy Services

23 33 31 Sew ard KS

DST Test Number: 2

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Agricultural Energy Services**

PO Box 1040
Liberal KS 67901

ATTN: Tom Williams

23 33 31 Seward KS

Don Thorp # 1

Start Date: 2008.07.03 @ 09:07:53

End Date: 2008.07.03 @ 17:09:52

Job Ticket #: 31007

DST #: 3

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 1040
Liberal KS 67901

ATTN: Tom Williams

Don Thorp # 1

23 33 31 Seward KS

Job Ticket: 31007

DST#: 3

Test Start: 2008.07.03 @ 09:07:53

GENERAL INFORMATION:

Formation: Toronto

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:02

Time Test Ended: 17:09:52

Interval: 4275.00 ft (KB) To 4330.00 ft (KB) (TVD)

Total Depth: 4330.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Reference Elevations: 2762.00 ft (KB)

2751.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6753

Inside

Press@RunDepth: 117.00 psig @ 4277.00 ft (KB)

Start Date: 2008.07.03 End Date: 2008.07.03

Start Time: 09:07:53 End Time: 17:09:52

Capacity: 7000.00 psig

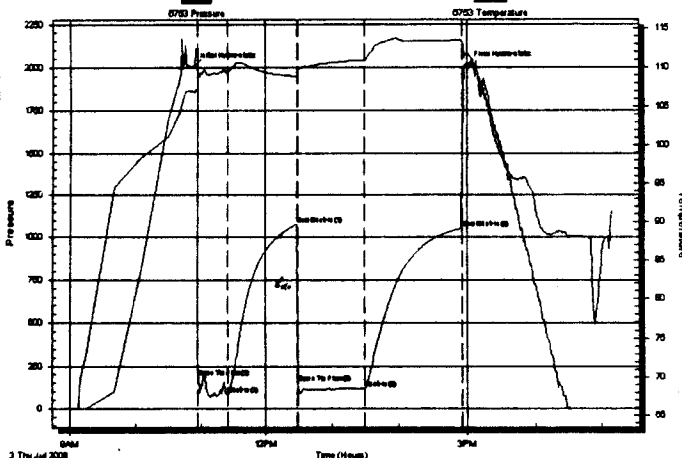
Last Calib.: 1899.12.30

Time On Btm: 2008.07.03 @ 10:53:02

Time Off Btm: 2008.07.03 @ 14:59:42

TEST COMMENT: IF BOB 1 min. strong steady blow
ISI No blow back
FF BOB ASAO strong steady blow
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2005.18	106.93	Initial Hydro-static
4	187.09	108.73	Open To Flow (1)
33	83.37	109.37	Shut-In (1)
96	1076.72	108.89	End Shut-In (1)
97	149.66	110.14	Open To Flow (2)
156	117.00	110.91	Shut-In (2)
243	1055.30	113.41	End Shut-In (2)
247	2012.19	111.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
217.00	GWM 5%G 45%W 50%M	1.07
62.00	GWM 10%G 20%W 70%M	0.87

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Agricultural Energy Services

Don Thorp # 1

PO Box 1040
Liberal KS 67901

23 33 31 Seward KS

Job Ticket: 31007

DST#: 3

ATTN: Tom Williams

Test Start: 2008.07.03 @ 09:07:53

Tool Information

Drill Pipe:	Length: 4040.00 ft	Diameter: 3.80 inches	Volume: 56.67 bbl	Tool Weight:	2000.00 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: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 57.74 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4275.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	83.00 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			4248.00	
Shut In Tool	5.00			4253.00	
Hydraulic tool	5.00			4258.00	
Jars	5.00			4263.00	
Safety Joint	3.00			4266.00	
Packer	5.00			4271.00	28.00 Bottom Of Top Packer
Packer	4.00			4275.00	
Stubb	1.00			4276.00	
Perforations	1.00			4277.00	
Recorder	0.00	8322	Inside	4277.00	
Recorder	0.00	6753	Inside	4277.00	
Perforations	17.00			4294.00	
Change Over Sub	1.00			4295.00	
Drill Pipe	31.00			4326.00	
Change Over Sub	1.00			4327.00	
Bullnose	3.00			4330.00	55.00 Bottom Packers & Anchor
Total Tool Length:		83.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

Don Thorp # 1

PO Box 1040
Liberal KS 67901

23 33 31 Seward KS

Job Ticket: 31007

DST#: 3

ATTN: Tom Williams

Test Start: 2008.07.03 @ 09:07:53

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:

4000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.67 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
217.00	GWM 5%G 45%W 50%M	1.067
62.00	GWM 10%G 20%W 70%M	0.870

Total Length: 279.00 ft

Total Volume:

1.937 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=1.135@91F=4000ppm

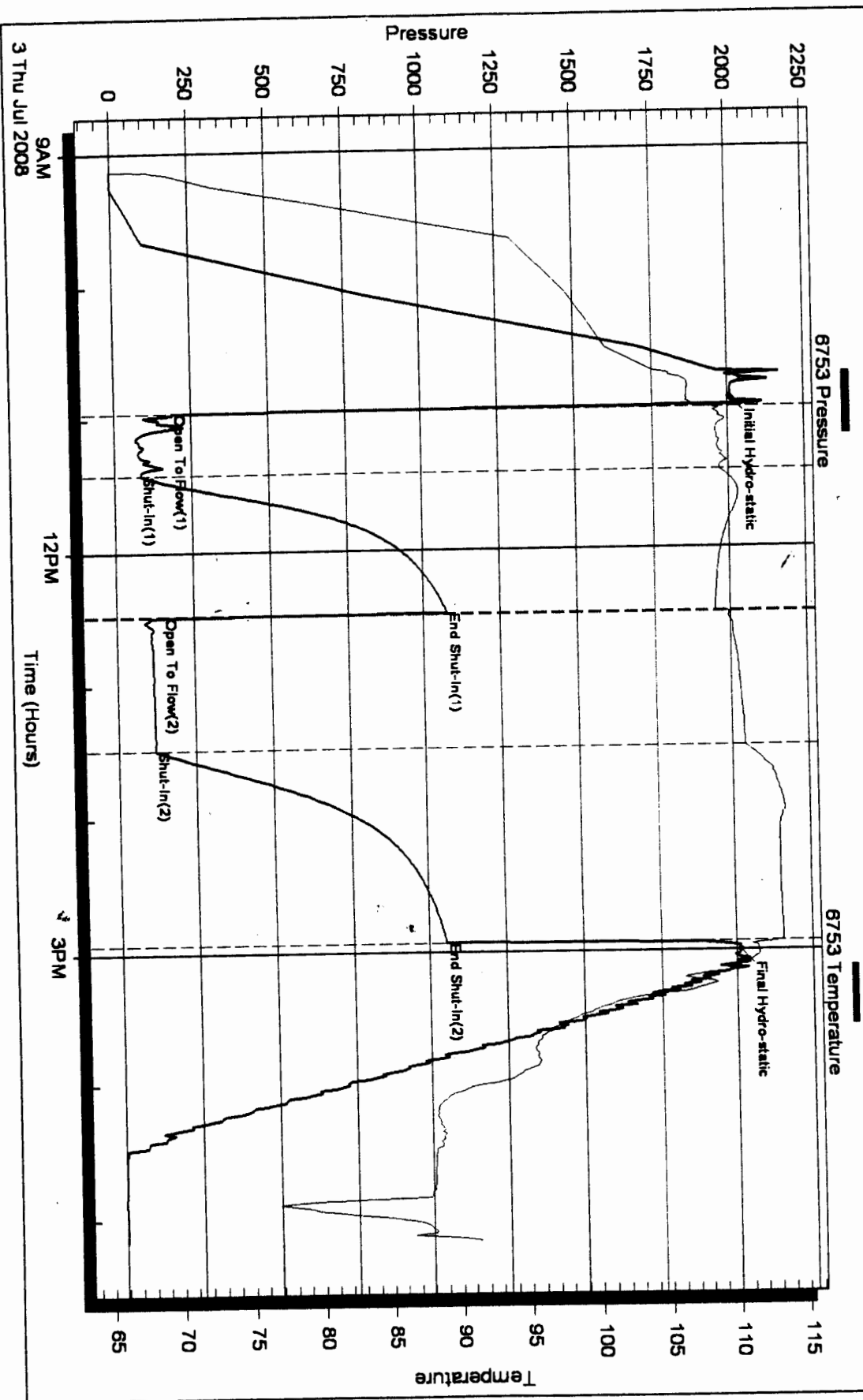
Serial #: 6753

Inside Agricultural Energy Services

23 33 31 Sew ard KS

DST Test Number: 3

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Agricultural Energy Services**

PO Box 1040
Liberal KS 67901

ATTN: Tom Williams

23 33 31 Seward KS

Don Thorp # 1

Start Date: 2008.07.04 @ 13:29:00

End Date: 2008.07.04 @ 21:58:50

Job Ticket #: 31351

DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRIBOLITE
TESTING, INC.**

DRILL STEM TEST REPORT

Agricultural Energy Services

Don Thorp # 1

PO Box 1040
Liberal KS 67901

23 33 31 Seward KS

Job Ticket: 31351

DST#: 4

ATTN: Tom Williams

Test Start: 2008.07.04 @ 13:29:00

GENERAL INFORMATION:

Formation: **Lansing 'A'**

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

Time Tool Opened: 15:31:50

Time Test Ended: 21:58:50

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4442.00 ft (KB) To 4463.00 ft (KB) (TVD)**

Total Depth: **4463.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Good**

Reference Elevations: **2762.00 ft (KB)**

2751.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **8017**

Inside

Press@RunDepth: **30.81 psig @ 4443.00 ft (KB)**

Start Date: **2008.07.04**

End Date: **2008.07.04**

Capacity: **7000.00 psig**

Last Calib.: **2008.07.04**

Start Time: **13:29:01**

End Time: **21:58:50**

Time On Btm: **2008.07.04 @ 15:31:40**

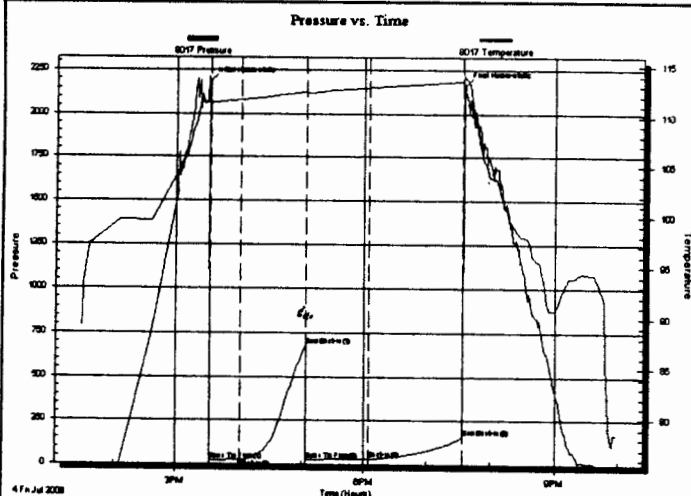
Time Off Btm: **2008.07.04 @ 19:36:00**

TEST COMMENT: IF Surface blow died @ 16 min.

ISI No return

FF No blow

FSI No return



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2187.62	112.02	Initial Hydro-static
1	19.36	111.28	Open To Flow (1)
30	25.19	111.69	Shut-In(1)
92	676.96	112.50	End Shut-In(1)
93	26.56	112.33	Open To Flow (2)
153	30.81	112.89	Shut-In(2)
243	156.48	113.52	End Shut-In(2)
245	2164.57	113.83	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

Agricultural Energy Services

Don Thorp # 1

PO Box 1040
Liberal KS 67901

23 33 31 Seward KS

Job Ticket: 31351

DST#: 4

ATTN: Tom Williams

Test Start: 2008.07.04 @ 13:29:00

Tool Information

Drill Pipe:	Length: 4204.00 ft	Diameter: 3.80 inches	Volume: 58.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 60.04 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4442.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 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			4415.00	
Shut In Tool	5.00			4420.00	
Hydraulic tool	5.00			4425.00	
Jars	5.00			4430.00	
Safety Joint	3.00			4433.00	
Packer	5.00			4438.00	28.00 Bottom Of Top Packer
Packer	4.00			4442.00	
Stubb	1.00			4443.00	
Recorder	0.00	8017	Inside	4443.00	
Recorder	0.00	8351	Inside	4443.00	
Inside	15.00			4458.00	
Bullnose	5.00			4463.00	21.00 Bottom Packers & Anchor

Total Tool Length: 49.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

Don Thorp # 1

PO Box 1040
Liberal KS 67901

23 33 31 Seward KS

Job Ticket: 31351

DST#: 4

ATTN: Tom Williams

Test Start: 2008.07.04 @ 13:29:00

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:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.68 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 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:

Serial #: 8017 Inside Agricultural Energy Services

23 33 31 Sew ard KS

DST Test Number: 4

Pressure vs. Time

