

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1670 Broadway Ste.3300
Denver CO 80202

ATTN: Sam Gary

10--16s--11w

Redetzek Farms # 2-10

Start Date: 2005.08.31 @ 07:25:02

End Date: 2005.08.31 @ 14:44:02

Job Ticket #: 22139 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Sam Gary

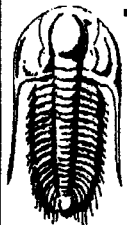
Redetzek Farms # 2-10

10--16s--11w

DST # 1

L.K.C.-F & G

2005.08.31



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary

1670 Broadway Ste.3300
Denver CO 80202

ATTN: Sam Gary

Redetzek Farms # 2-10

10-16s-11w

Job Ticket: 22139

DST#: 1

Test Start: 2005.08.31 @ 07:25:02

GENERAL INFORMATION:

Formation: **L.Kc.-F & G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:04:32

Time Test Ended: 14:44:02

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3094.00 ft (KB) To 3136.00 ft (KB) (TVD)**

Total Depth: 3136.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1884.00 ft (KB)

1879.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 64.72 psig @ 3098.00 ft (KB)

Start Date: 2005.08.31

End Date: 2005.08.31

Start Time: 07:25:07

End Time: 14:44:01

Capacity: 7000.00 psig

Last Calib.: 2005.08.31

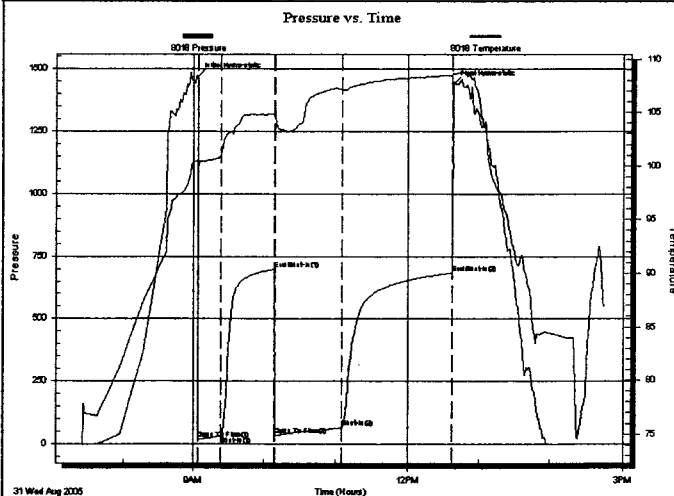
Time On Btm: 2005.08.31 @ 09:04:02

Time Off Btm: 2005.08.31 @ 12:38:02

TEST COMMENT: IF-Strong B.O.B.15 min.
FF-Strong B.O.B.17 min.

ISI-Dead

FSI-Very weak surf. blow back.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1468.29	100.46	Initial Hydro-static
1	19.12	100.08	Open To Flow (1)
20	30.45	100.94	Shut-In(1)
65	697.37	104.87	End Shut-In(1)
66	33.17	104.47	Open To Flow (2)
122	64.72	107.12	Shut-In(2)
214	683.86	108.46	End Shut-In(2)
214	1440.04	108.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	M.S.Water 35%M-65%W	0.84
40.00	OCM-15%O-85%M	0.56

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary

Redetzek Farms # 2-10

1670 Broadway Ste.3300
Denver CO 80202

10-16s-11w

Job Ticket: 22139

DST#: 1

ATTN: Sam Gary

Test Start: 2005.08.31 @ 07:25:02

Tool Information

Drill Pipe:	Length: 3096.00 ft	Diameter: 3.80 inches	Volume: 43.43 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	43.43 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3094.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 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			3067.00	
Shut In Tool	5.00			3072.00	
Hydraulic tool	5.00			3077.00	
Jars	5.00			3082.00	
Safety Joint	3.00			3085.00	
Packer	4.00			3089.00	28.00 Bottom Of Top Packer
Packer	5.00			3094.00	
Stubb	1.00			3095.00	
Perforations	2.00			3097.00	
Change Over Sub	1.00			3098.00	
Recorder	0.00	8018	Inside	3098.00	
Blank Spacing	31.00			3129.00	
Change Over Sub	1.00			3130.00	
Perforations	3.00			3133.00	
Recorder	0.00	13308	Outside	3133.00	
Bullnose	3.00			3136.00	42.00 Bottom Packers & Anchor
Total Tool Length:		70.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary

Redetzek Farms # 2-10

1670 Broadway Ste.3300
Denver CO 80202

10-16s-11w

Job Ticket: 22139

DST#: 1

ATTN: Sam Gary

Test Start: 2005.08.31 @ 07:25:02

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: 19000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	M.S.Water 35%M-65%W	0.842
40.00	OCM-15%O-85%M	0.561

Total Length: 100.00 ft

Total Volume: 1.403 bbl

Num Fluid Samples: 0

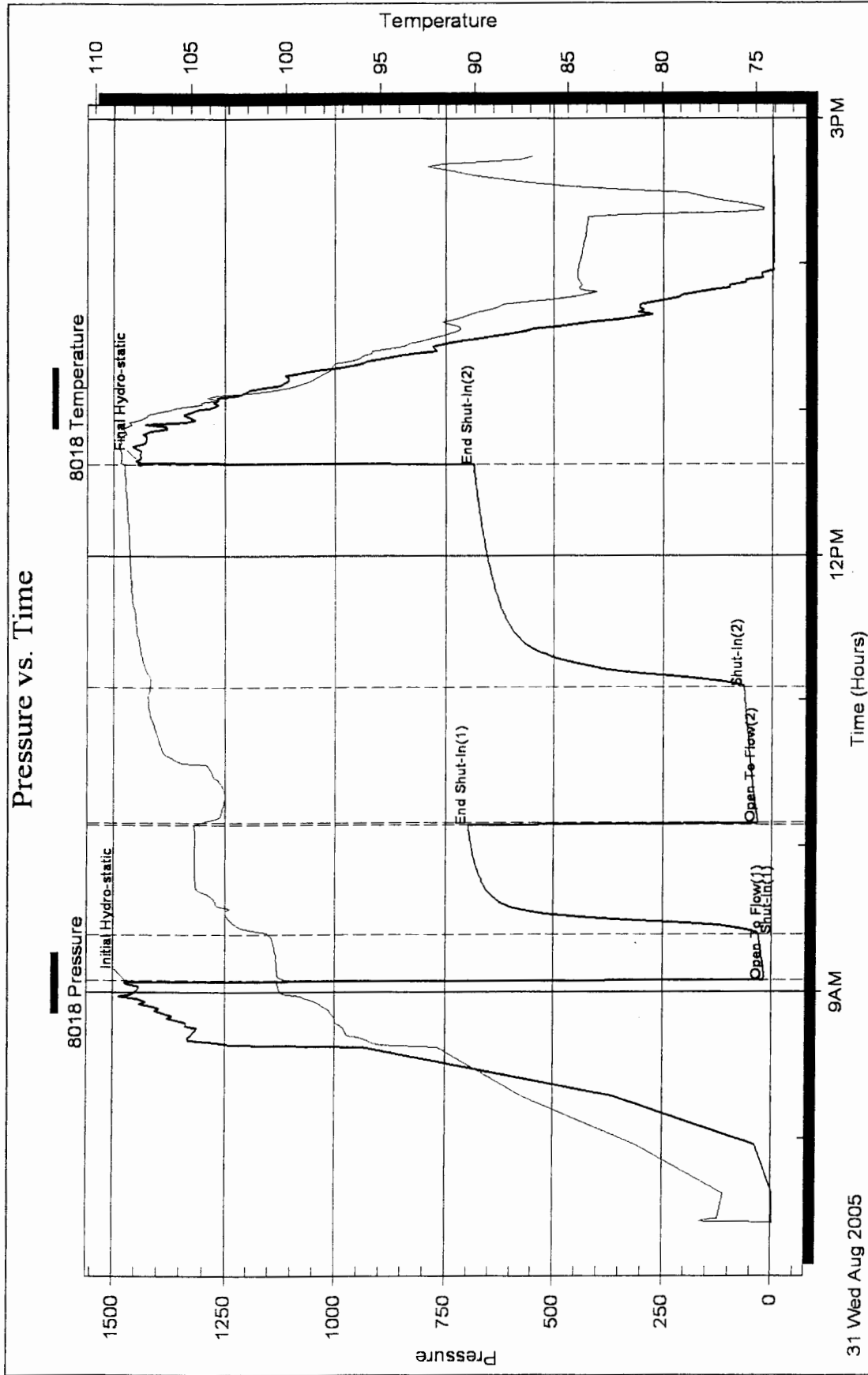
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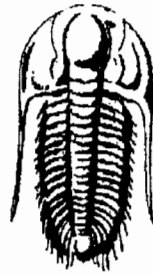
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1670 Broadway Ste.3300
Denver CO 80202

ATTN: Sam Gary

10-16s-11w

Redetzek Farms # 2-10

Start Date: 2005.09.01 @ 03:36:30

End Date: 2005.09.01 @ 09:45:30

Job Ticket #: 22140 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Sam Gary

Redetzek Farms # 2-10

10-16s-11w

DST # 2

L.Kc.-J

2005.09.01



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary
1670 Broadway Ste. 3300
Denver CO 80202
ATTN: Sam Gary

Redetzek Farms # 2-10
10-16s-11w
Job Ticket: 22140 **DST#: 2**
Test Start: 2005.09.01 @ 03:36:30

GENERAL INFORMATION:

Formation: **L.Kc.-J**

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

Time Tool Opened: 06:16:30

Time Test Ended: 09:45:30

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3190.00 ft (KB) To 3220.00 ft (KB) (TVD)**

Total Depth: **3120.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1884.00 ft (KB)**

1879.00 ft (CF)

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

Serial #: 8018

Inside

Press@RunDepth: **20.05 psig @ 3192.00 ft (KB)**

Start Date: **2005.09.01**

End Date: **2005.09.01**

Start Time: **03:36:35**

End Time: **09:45:29**

Capacity: **7000.00 psig**

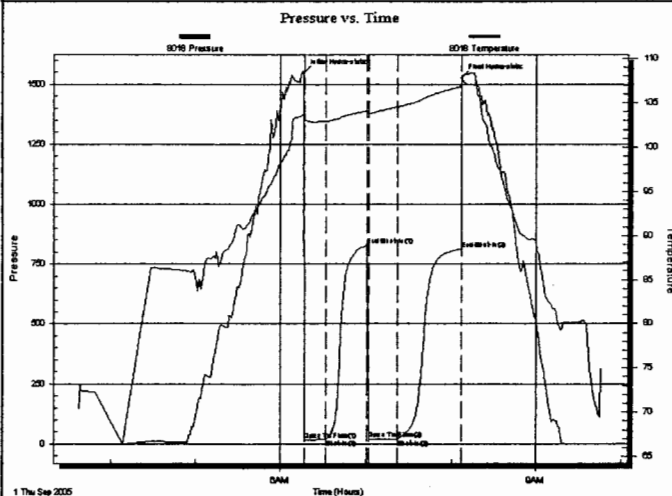
Last Calib.: **2005.09.01**

Time On Btm: **2005.09.01 @ 06:16:00**

Time Off Btm: **2005.09.01 @ 08:06:30**

TEST COMMENT: **IF-Weak Dead in 8 min.**
FF-Weak Surface blow.

ISI-Dead
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1547.93	103.72	Initial Hydro-static
1	16.16	103.06	Open To Flow (1)
16	17.97	102.95	Shut-In(1)
45	826.59	104.09	End Shut-In(1)
46	18.95	103.77	Open To Flow (2)
65	20.05	104.54	Shut-In(2)
110	813.11	106.85	End Shut-In(2)
111	1526.69	108.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	D.Mud w/ oil stain	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary

Redetzek Farms # 2-10

1670 Broadway Ste.3300
Denver CO 80202

10-16s-11w

Job Ticket: 22140

DST#: 2

ATTN: Sam Gary

Test Start: 2005.09.01 @ 03:36:30

Tool Information

Drill Pipe:	Length: 3191.00 ft	Diameter: 3.80 inches	Volume: 44.76 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 44.76 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3190.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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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Change Over Sub	1.00			3163.00	
Shut In Tool	5.00			3168.00	
Hydraulic tool	5.00			3173.00	
Jars	5.00			3178.00	
Safety Joint	3.00			3181.00	
Packer	4.00			3185.00	28.00 Bottom Of Top Packer
Packer	5.00			3190.00	
Stubb	1.00			3191.00	
Perforations	1.00			3192.00	
Recorder	0.00	8018	Inside	3192.00	
Perforations	25.00			3217.00	
Recorder	0.00	13308	Outside	3217.00	
Bullnose	3.00			3220.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



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FLUID SUMMARY

Sam Gary

Redetzek Farms # 2-10

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10-16s-11w

Job Ticket: 22140

DST#: 2

ATTN: Sam Gary

Test Start: 2005.09.01 @ 03:36:30

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: 42.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	D.Mud with oil stain	0.281

Total Length: 20.00 ft

Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

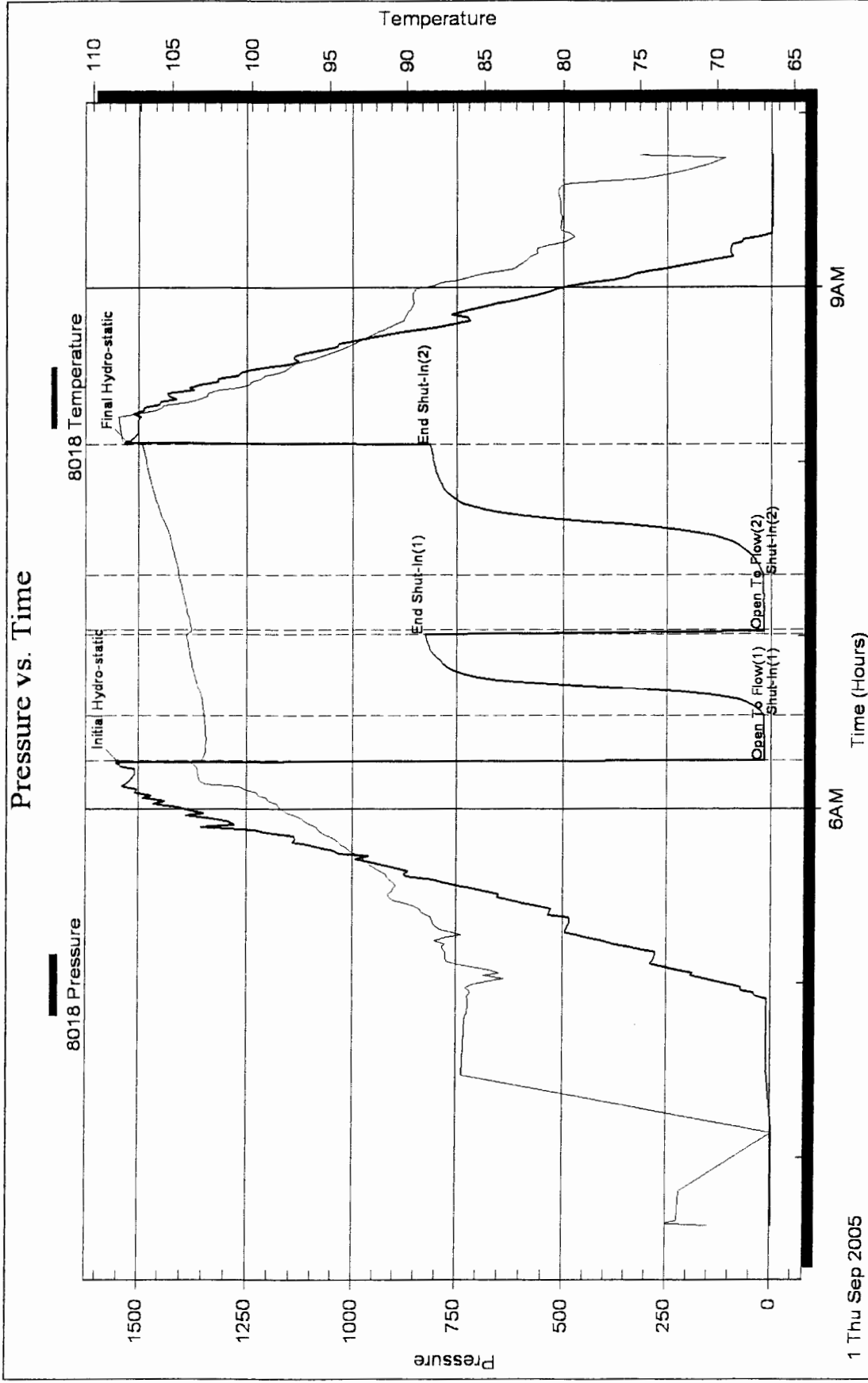
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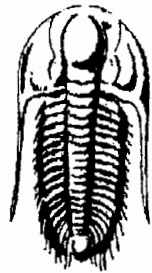
Inside

Sam Gary

10--16s--11w

DST Test Number: 2





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DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1670 Broadway Ste.3300
Denver CO 80202

ATTN: Sam Gary

10-16s-11w

Redetzek Farms # 2-10

Start Date: 2005.09.02 @ 08:56:15

End Date: 2005.09.02 @ 15:50:15

Job Ticket #: 22141 DST #: 3

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



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DRILL STEM TEST REPORT

Sam Gary

1670 Broadway Ste. 3300
Denver CO 80202

ATTN: Sam Gary

Redetzek Farms # 2-10

10-16s-11w

Job Ticket: 22141

DST#: 3

Test Start: 2005.09.02 @ 08:56:15

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:28:15

Time Test Ended: 15:50:15

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3301.00 ft (KB) To 3344.00 ft (KB) (TVD)

Total Depth: 3344.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1884.00 ft (KB)

1879.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 196.77 psig @ 3304.00 ft (KB)

Start Date: 2005.09.02

End Date: 2005.09.02

Start Time: 08:56:20

End Time: 15:50:14

Capacity: 7000.00 psig

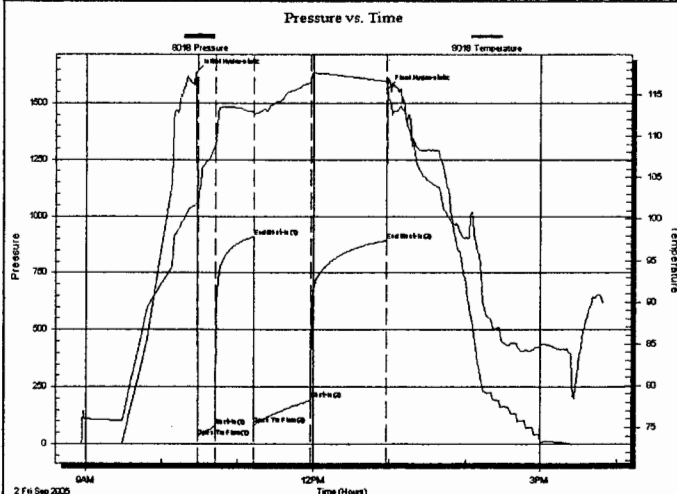
Last Calib.: 2005.09.02

Time On Btm: 2005.09.02 @ 10:27:15

Time Off Btm: 2005.09.02 @ 12:58:15

TEST COMMENT: IF-Strong B.O.B. 6 min.
FF-Strong B.O.B. 10 min.

ISI-Weak Surface blow back.
FSI-Weak Surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1634.45	101.92	Initial Hydro-static
1	30.56	101.67	Open To Flow (1)
15	77.92	108.92	Shut-In(1)
46	910.70	112.87	End Shut-In(1)
46	83.72	112.52	Open To Flow (2)
90	196.77	116.49	Shut-In(2)
150	892.74	116.60	End Shut-In(2)
151	1562.25	116.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	OMCW-4%O-10%M-86%W	0.81
200.00	HMMCO-34%M-16%W-50%O	2.81
190.00	Gassy oil-5%G-95%oil	2.67
0.00	120 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary

Redetzek Farms # 2-10

1670 Broadway Ste. 3300
Denver CO 80202

10-16s-11w

Job Ticket: 22141

DST#: 3

ATTN: Sam Gary

Test Start: 2005.09.02 @ 08:56:15

Tool Information

Drill Pipe: Length: 3287.00 ft Diameter: 3.80 inches Volume: 46.11 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 2.70 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl
Total Volume: 46.11 bbl

Tool Weight: 2800.00 lb
Weight set on Packer: 25000.00 lb
Weight to Pull Loose: 50000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 46000.00 lb
Final 48000.00 lb

Drill Pipe Above KB: 14.00 ft
Depth to Top Packer: 3301.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 43.00 ft
Tool Length: 71.00 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			3274.00	
Shut In Tool	5.00			3279.00	
Hydraulic tool	5.00			3284.00	
Jars	5.00			3289.00	
Safety Joint	3.00			3292.00	
Packer	4.00			3296.00	28.00 Bottom Of Top Packer
Packer	5.00			3301.00	
Stubb	1.00			3302.00	
Perforations	1.00			3303.00	
Change Over Sub	1.00			3304.00	
Recorder	0.00	8018	Inside	3304.00	
Blank Spacing	31.00			3335.00	
Change Over Sub	1.00			3336.00	
Perforations	5.00			3341.00	
Recorder	0.00	13308	Outside	3341.00	
Bullnose	3.00			3344.00	43.00 Bottom Packers & Anchor
Total Tool Length:	71.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

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Redetzek Farms # 2-10

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Denver CO 80202

10-16s-11w

Job Ticket: 22141

DST#: 3

ATTN: Sam Gary

Test Start: 2005.09.02 @ 08:56:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	OMCW-4%O-10%M-86%W	0.814
200.00	HMMCO-34%M-16%W-50%O	2.805
190.00	Gassy oil-5%G-95%oil	2.665
0.00	120 gas in pipe	0.000

Total Length: 448.00 ft

Total Volume: 6.284 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

