



DRILL STEM TEST REPORT

Prepared For: **E&B Natural Resources**

1600 Norris Rd.
Bakersfield, CA 93308

ATTN: Bob O'Dell

Marshall "A" #41

31-11s-17w Ellis,KS

Start Date: 2012.09.21 @ 00:05:30

End Date: 2012.09.21 @ 07:15:30

Job Ticket #: 47931 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.27 @ 10:06:20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

E&B Natural Resources

31-11s-17w Ellis,KS

1600 Norris Rd.
Bakersfield, CA 93308

Marshall "A" #41

Job Ticket: 47931

DST#: 1

ATTN: Bob O'Dell

Test Start: 2012.09.21 @ 00:05:30

Tool Information

Drill Pipe:	Length: 3327.00 ft	Diameter: 3.80 inches	Volume: 46.67 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	5000.00 lb
			<u>Total Volume: 46.81 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	37000.00 lb
Depth to Top Packer:	3363.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	55.00 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			3336.00	
Shut In Tool	5.00			3341.00	
Hydraulic tool	5.00			3346.00	
Jars	5.00			3351.00	
Safety Joint	3.00			3354.00	
Packer	5.00			3359.00	28.00 Bottom Of Top Packer
Packer	4.00			3363.00	
Stubb	1.00			3364.00	
Perforations	1.00			3365.00	
Recorder	0.00	8354	Inside	3365.00	
Recorder	0.00	8520	Outside	3365.00	
Perforations	22.00			3387.00	
Bullnose	3.00			3390.00	27.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

E&B Natural Resources

31-11s-17w Ellis,KS

1600 Norris Rd.
Bakersfield, CA 93308

Marshall "A" #41

Job Ticket: 47931

DST#: 1

ATTN: Bob O'Dell

Test Start: 2012.09.21 @ 00:05:30

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:

17500 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.44 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1071.00	95%Water/5%Mud	14.759
494.00	90%Water/10%Mud	6.930

Total Length: 1565.00 ft Total Volume: 21.689 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

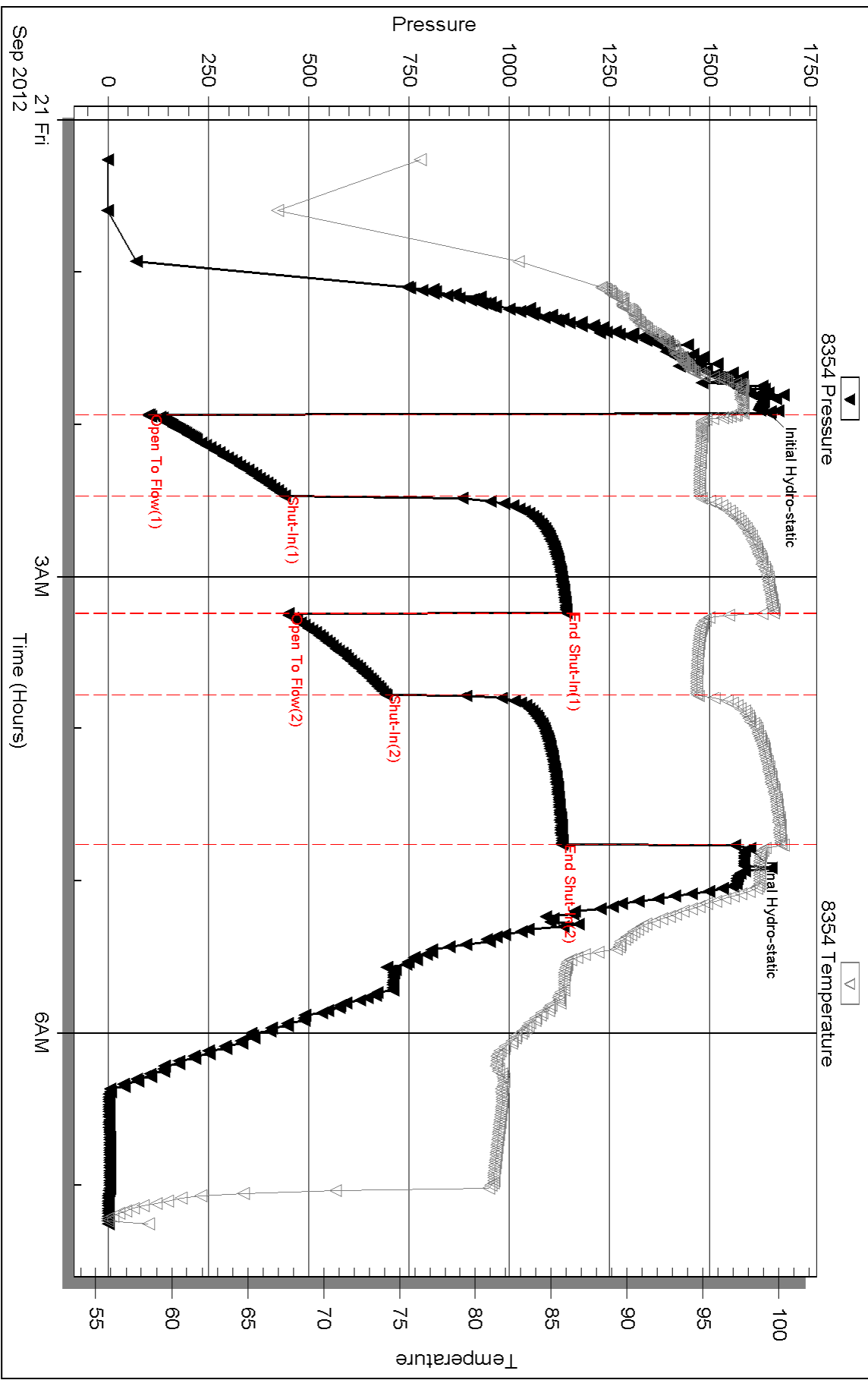
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

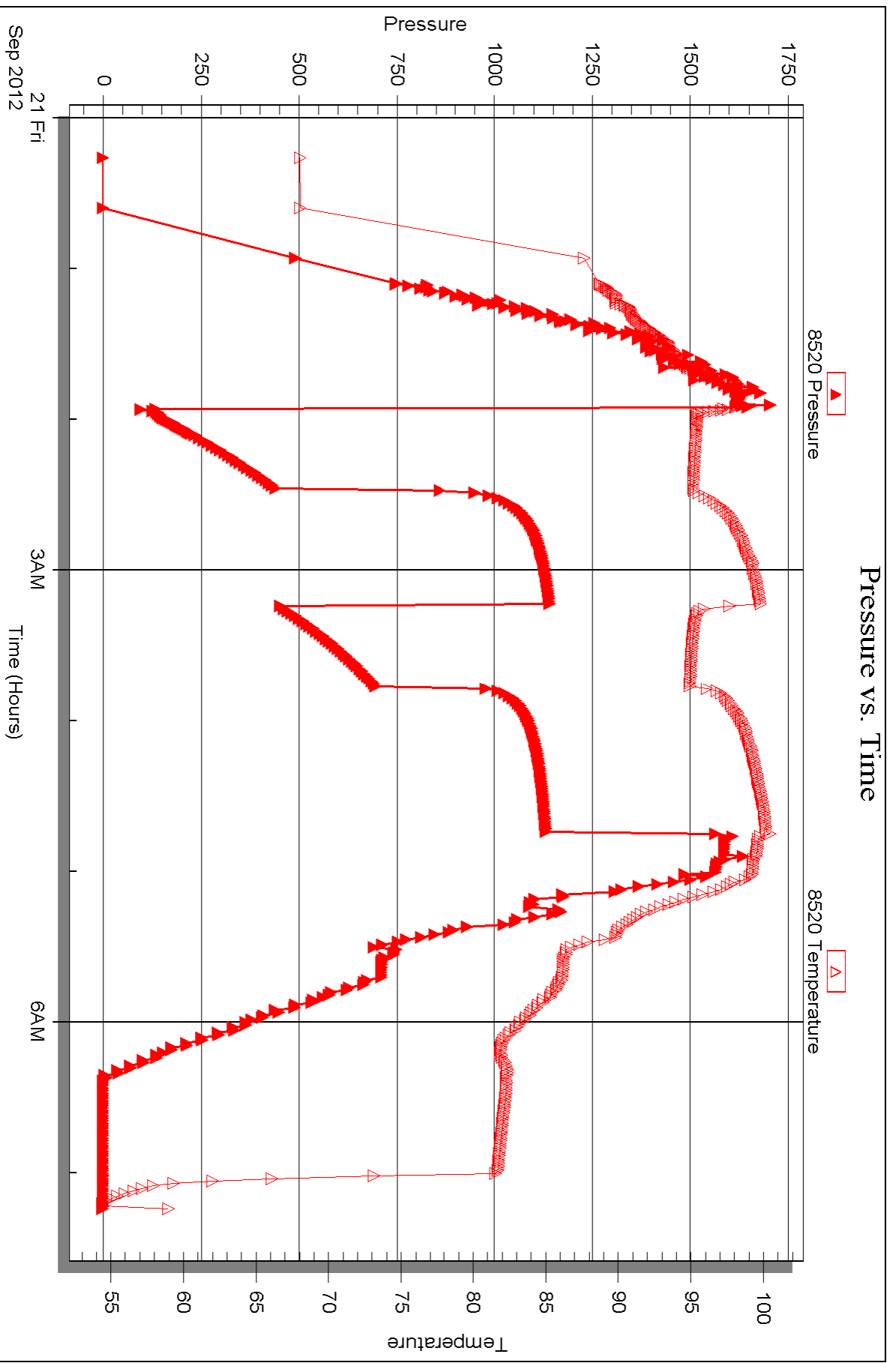


Serial #: 8520

Outside E&B Natural Resources

Marshall "A" #41

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **E&B Natural Resources**

1600 Norris Rd.
Bakersfield, CA 93308

ATTN: Bob O'Dell

Marshall "A" #41

31-11s-17w Ellis,KS

Start Date: 2012.09.21 @ 15:23:30

End Date: 2012.09.21 @ 21:53:00

Job Ticket #: 47932 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.27 @ 10:05:33

E&B Natural Resources
31-11s-17w Ellis,KS
Marshall "A" #41
DST # 2
Lansing "A-B"
2012.09.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

E&B Natural Resources

31-11s-17w Ellis,KS

1600 Norris Rd.
Bakersfield, CA 93308

Marshall "A" #41

Job Ticket: 47932

DST#: 2

ATTN: Bob O'Dell

Test Start: 2012.09.21 @ 15:23:30

Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.80 inches	Volume: 47.13 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	8000.00 lb
			<u>Total Volume: 47.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3394.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	51.00 ft				
Tool Length:	79.00 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			3367.00	
Shut In Tool	5.00			3372.00	
Hydraulic tool	5.00			3377.00	
Jars	5.00			3382.00	
Safety Joint	3.00			3385.00	
Packer	5.00			3390.00	28.00 Bottom Of Top Packer
Packer	4.00			3394.00	
Stubb	1.00			3395.00	
Perforations	5.00			3400.00	
Change Over Sub	1.00			3401.00	
Drill Pipe	32.00			3433.00	
Change Over Sub	1.00			3434.00	
Recorder	0.00	8354	Inside	3434.00	
Recorder	0.00	8520	Outside	3434.00	
Perforations	8.00			3442.00	
Bullnose	3.00			3445.00	51.00 Bottom Packers & Anchor
Total Tool Length:	79.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

E&B Natural Resources

31-11s-17w Ellis,KS

1600 Norris Rd.
Bakersfield, CA 93308

Marshall "A" #41

Job Ticket: 47932

DST#: 2

ATTN: Bob O'Dell

Test Start: 2012.09.21 @ 15:23:30

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:

19500 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.39 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
507.00	95%Water/5%Mud	6.848
378.00	80%Water/20%Mud	5.302

Total Length: 885.00 ft

Total Volume: 12.150 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

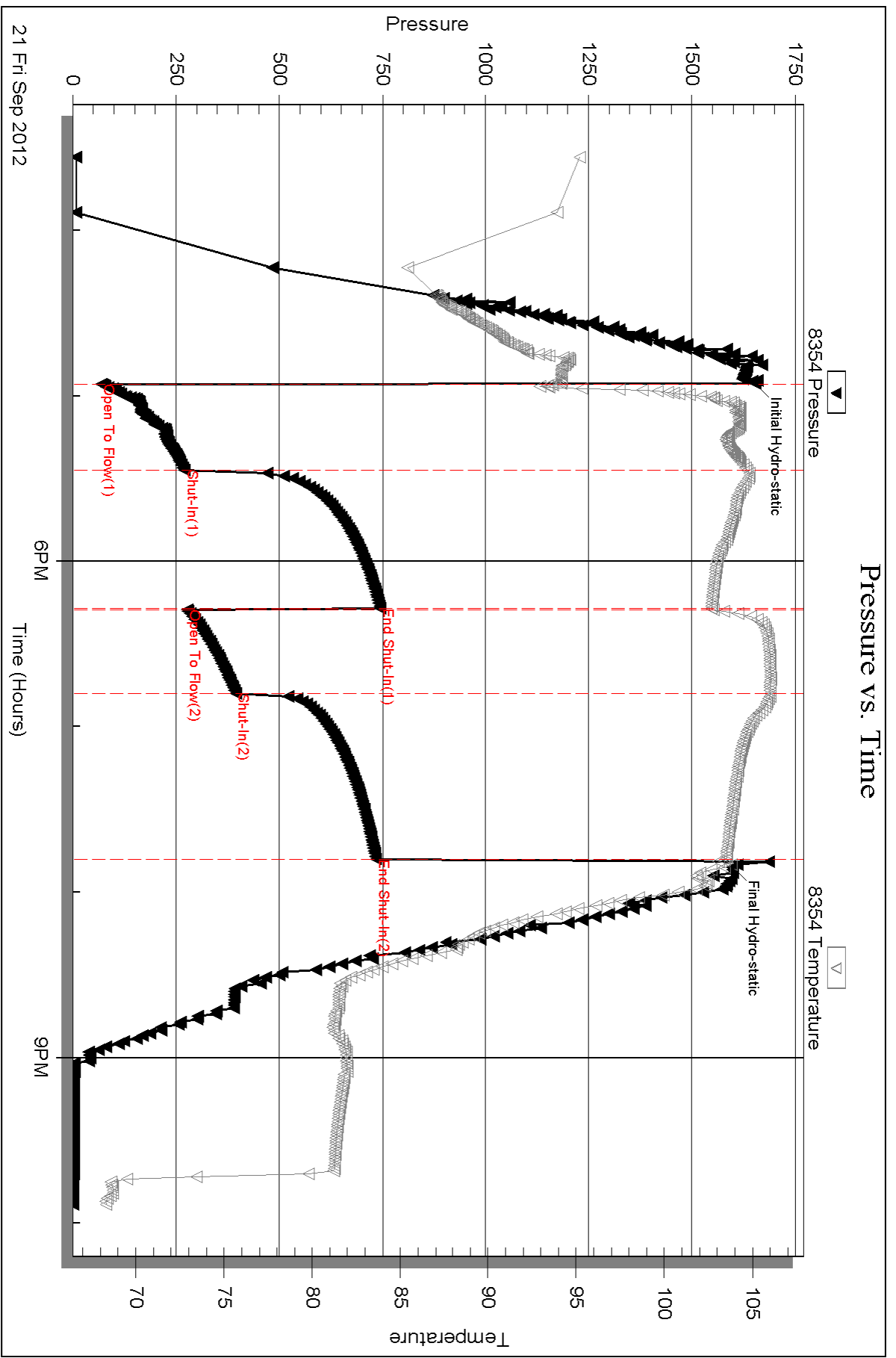
Serial #: 8354

Inside

E&B Natural Resources

Marshall "A" #41

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47932

Printed: 2012.09.27 @ 10:05:37

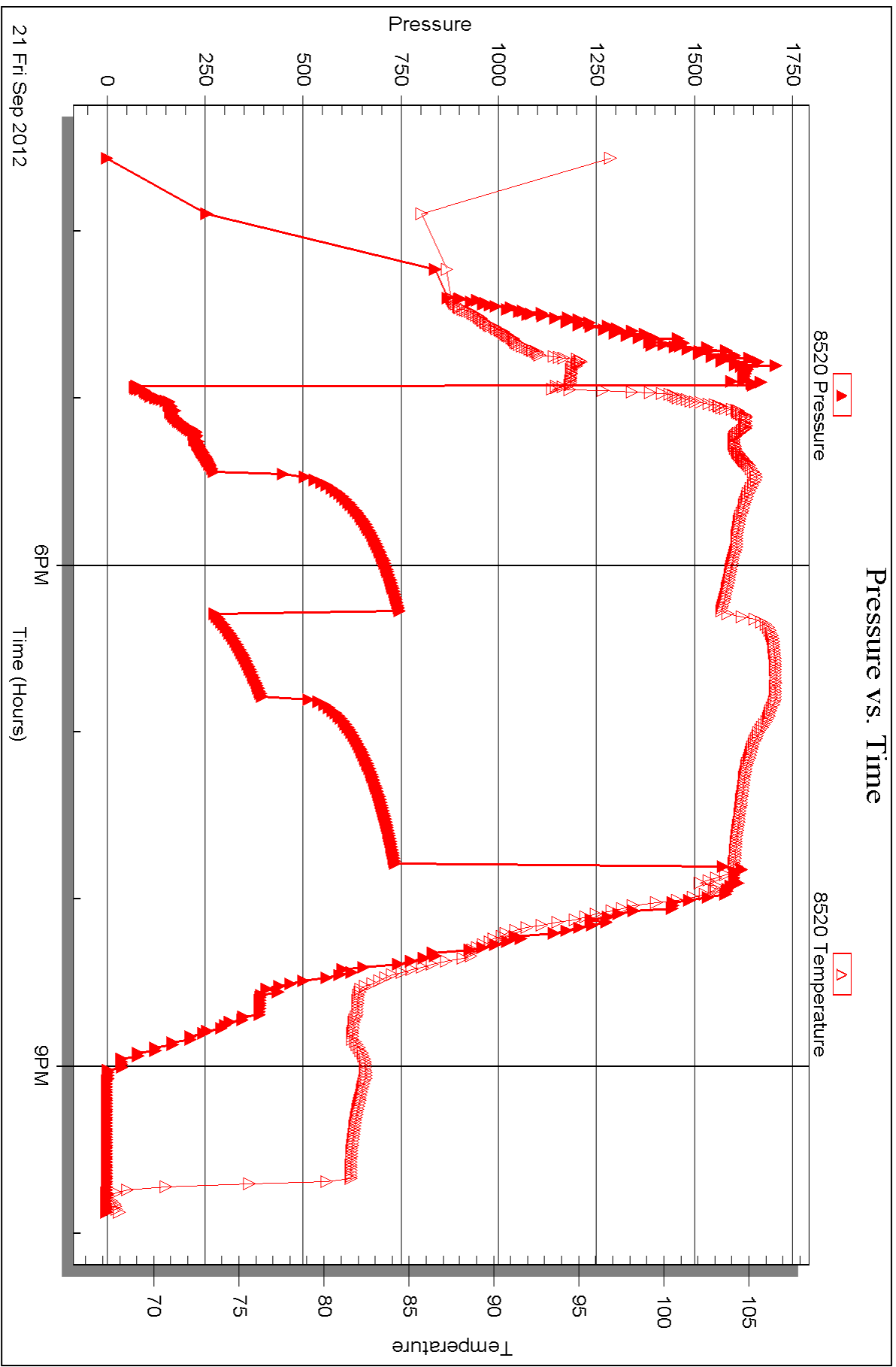
Serial #: 8520

Outside

E&B Natural Resources

Marshall "A" #41

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47932

Printed: 2012.09.27 @ 10:05:37



DRILL STEM TEST REPORT

Prepared For: **E&B Natural Resources**

1600 Norris Rd.
Bakersfield, CA 93308

ATTN: Bob O'Dell

Marshall "A" #41

31-11s-17w Ellis,KS

Start Date: 2012.09.22 @ 22:12:30

End Date: 2012.09.23 @ 04:25:30

Job Ticket #: 47933 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.27 @ 10:04:48



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

E&B Natural Resources
1600 Norris Rd.
Bakersfield, CA 93308
ATTN: Bob O'Dell

31-11s-17w Ellis,KS
Marshall "A" #41
Job Ticket: 47933 **DST#: 3**
Test Start: 2012.09.22 @ 22:12:30

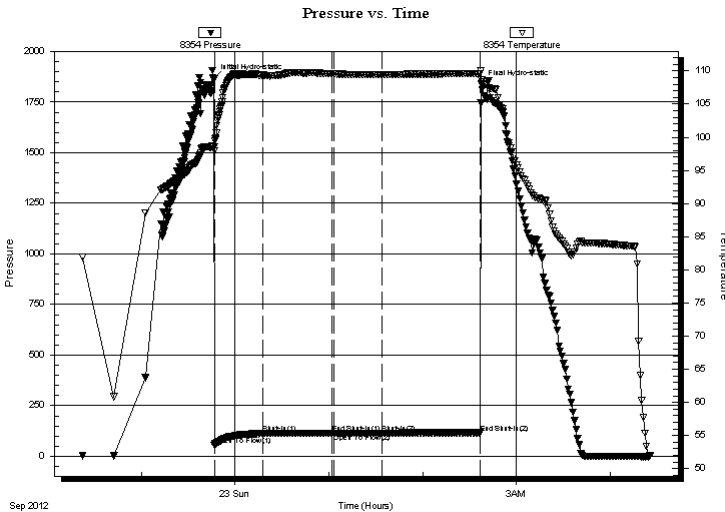
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:46:40
Time Test Ended: 04:25:30
Interval: **3688.00 ft (KB) To 3708.00 ft (KB) (TVD)**
Total Depth: 3708.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38
Reference Elevations: 2181.00 ft (KB)
2176.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8354 Inside
Press @ Run Depth: 114.92 psig @ 3690.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.09.22 End Date: 2012.09.23 Last Calib.: 2012.09.23
Start Time: 22:22:30 End Time: 04:25:30 Time On Btm: 2012.09.22 @ 23:46:30
Time Off Btm: 2012.09.23 @ 02:37:30

TEST COMMENT: IF-Strong building blow . BOB in 4 minutes 15 seconds.
ISI-No Return.
FF-No Blow .
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1864.46	98.58	Initial Hydro-static
1	55.69	97.95	Open To Flow (1)
31	112.51	109.36	Shut-In(1)
76	114.86	109.62	End Shut-In(1)
77	114.82	109.61	Open To Flow (2)
108	114.92	109.42	Shut-In(2)
170	116.05	109.64	End Shut-In(2)
171	1838.98	108.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	90%Water/10%Mud	1.50
94.00	70%Water/30%Mud	1.32

Gas Rates

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



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DRILL STEM TEST REPORT

E&B Natural Resources

31-11s-17w Ellis,KS

1600 Norris Rd.
Bakersfield, CA 93308

Marshall "A" #41

Job Ticket: 47933

DST#: 3

ATTN: Bob O'Dell

Test Start: 2012.09.22 @ 22:12:30

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:46:40

Time Test Ended: 04:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3688.00 ft (KB) To 3708.00 ft (KB) (TVD)

Reference Elevations: 2181.00 ft (KB)

Total Depth: 3708.00 ft (KB) (TVD)

2176.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press @ Run Depth: psig @ 3690.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.22

End Date: 2012.09.23

Last Calib.: 2012.09.23

Start Time: 22:22:45

End Time: 04:25:15

Time On Btm:

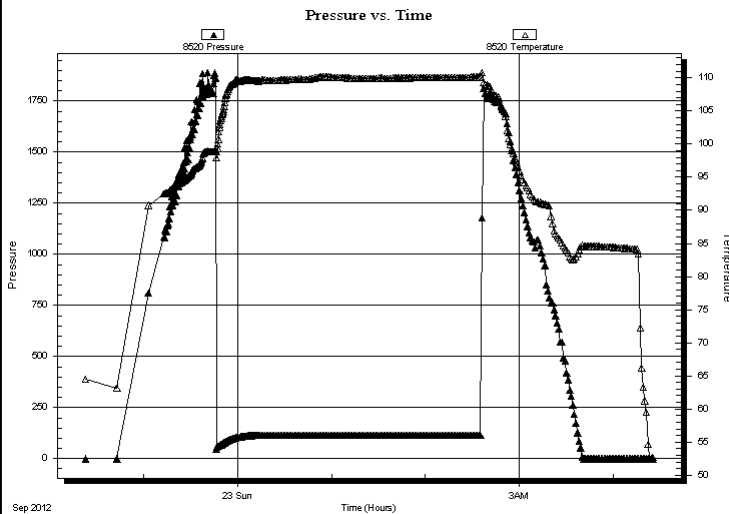
Time Off Btm:

TEST COMMENT: IF-Strong building blow . BOB in 4 minutes 15 seconds.

ISI-No Return.

FF-No Blow .

FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
126.00	90%Water/10%Mud	1.50
94.00	70%Water/30%Mud	1.32

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

E&B Natural Resources

31-11s-17w Ellis,KS

1600 Norris Rd.
Bakersfield, CA 93308

Marshall "A" #41

Job Ticket: 47933

DST#: 3

ATTN: Bob O'Dell

Test Start: 2012.09.22 @ 22:12:30

Tool Information

Drill Pipe:	Length: 3644.00 ft	Diameter: 3.80 inches	Volume: 51.12 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 51.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3688.00 ft			Final 39000.00 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
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Change Over Sub	1.00			3661.00	
Shut In Tool	5.00			3666.00	
Hydraulic tool	5.00			3671.00	
Jars	5.00			3676.00	
Safety Joint	3.00			3679.00	
Packer	5.00			3684.00	28.00 Bottom Of Top Packer
Packer	4.00			3688.00	
Stubb	1.00			3689.00	
Perforations	1.00			3690.00	
Recorder	0.00	8354	Inside	3690.00	
Recorder	0.00	8520	Outside	3690.00	
Perforations	15.00			3705.00	
Bullnose	3.00			3708.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

E&B Natural Resources

31-11s-17w Ellis,KS

1600 Norris Rd.
Bakersfield, CA 93308

Marshall "A" #41

Job Ticket: 47933

DST#: 3

ATTN: Bob O'Dell

Test Start: 2012.09.22 @ 22:12:30

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:

25000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: 0.42 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	90%Water/10%Mud	1.503
94.00	70%Water/30%Mud	1.319

Total Length: 220.00 ft Total Volume: 2.822 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

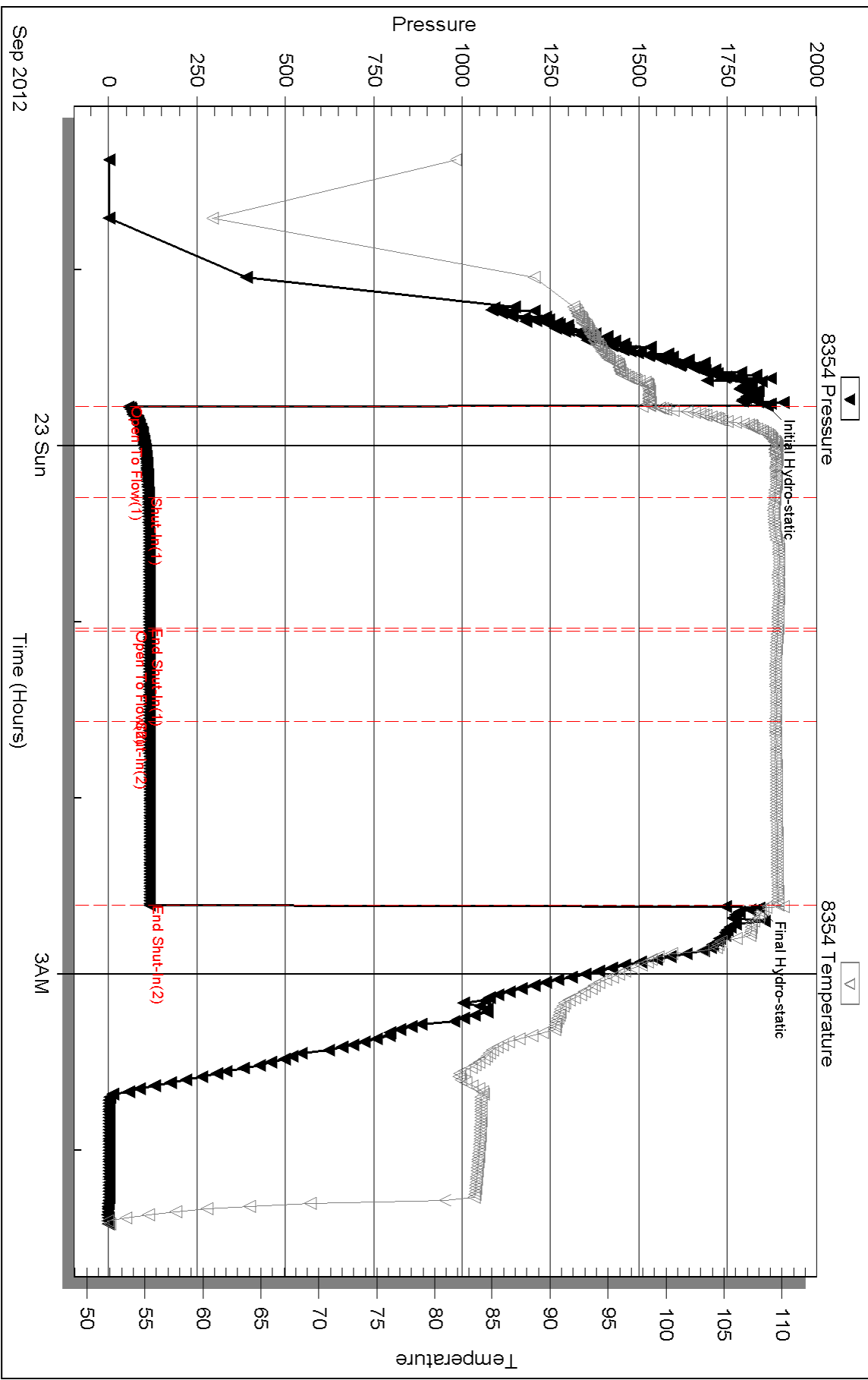
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

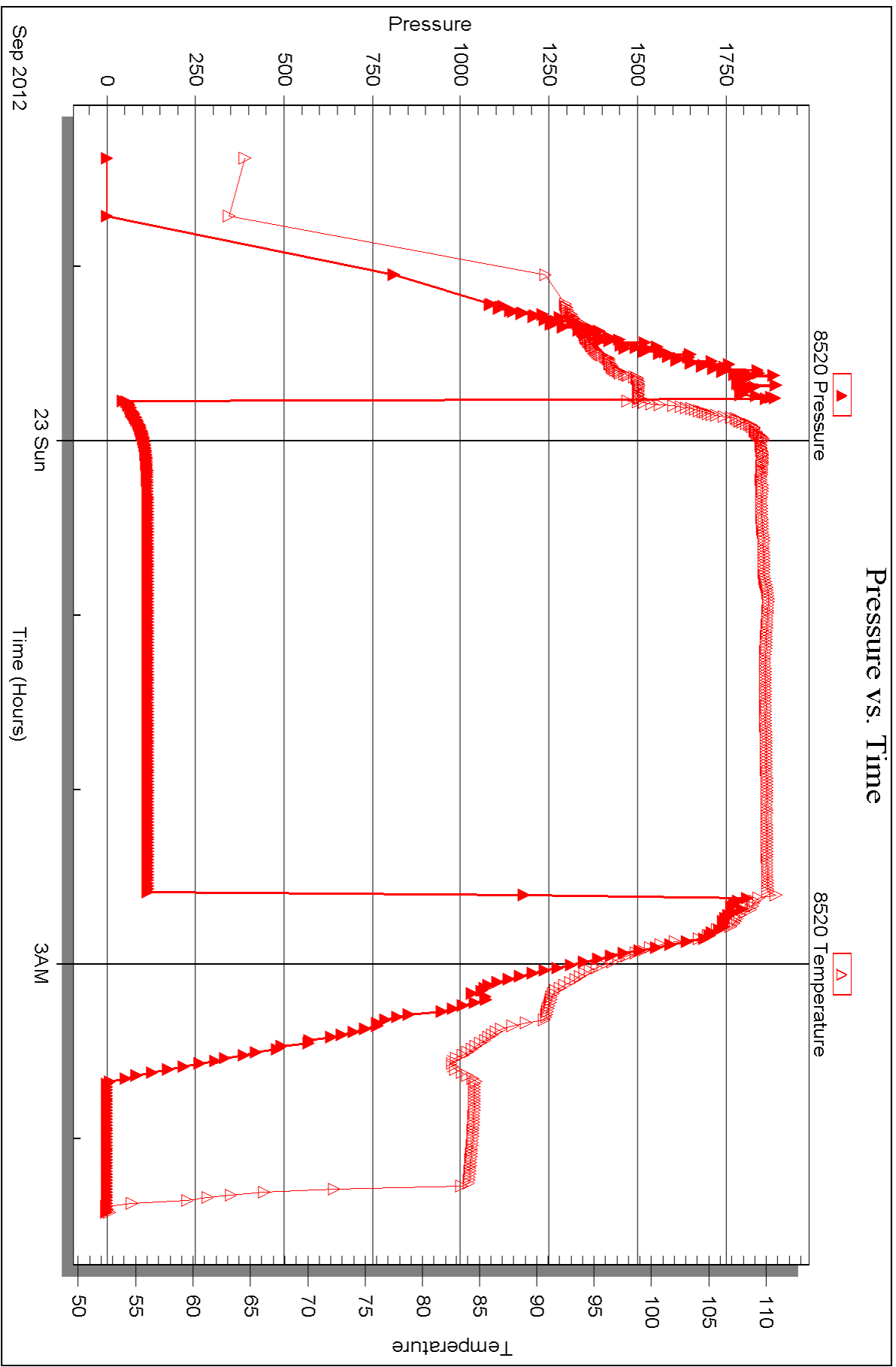


Serial #: 8520

Outside E&B Natural Resources

Marshall "A" #41

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **E&B Natural Resources**

1600 Norris Rd.
Bakersfield, CA 93308

ATTN: Bob O'Dell

Marshall "A" #41

31-11s-17w Ellis,KS

Start Date: 2012.09.23 @ 10:53:30

End Date: 2012.09.23 @ 19:21:30

Job Ticket #: 47934 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.27 @ 10:04:04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

E&B Natural Resources

31-11s-17w Ellis,KS

1600 Norris Rd.
Bakersfield, CA 93308

Marshall "A" #41

Job Ticket: 47934

DST#: 4

ATTN: Bob O'Dell

Test Start: 2012.09.23 @ 10:53:30

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:41:30

Time Test Ended: 19:21:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3709.00 ft (KB) To 3720.00 ft (KB) (TVD)

Reference Elevations: 2181.00 ft (KB)

Total Depth: 3720.00 ft (KB) (TVD)

2176.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 1038.79 psig @ 3711.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.23

End Date:

2012.09.23

Last Calib.:

2012.09.23

Start Time: 11:03:30

End Time:

19:21:30

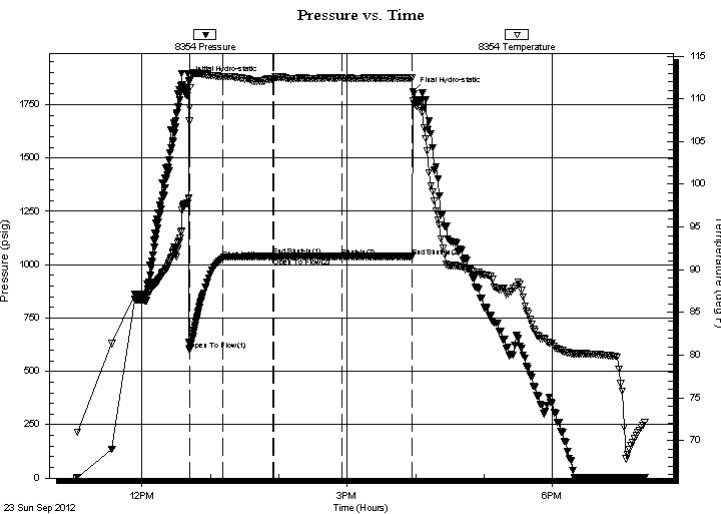
Time On Btm:

2012.09.23 @ 12:41:00

Time Off Btm:

2012.09.23 @ 15:58:00

TEST COMMENT: IF-Strong building blow . BOB in 45 seconds.
ISI-No Return.
FF-Weak building blow . Built to 10 inches.
FSI-Weak surging surface blow throughout.



PRESSURE SUMMARY

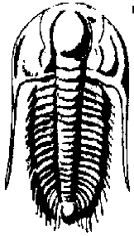
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1864.67	98.40	Initial Hydro-static
1	602.05	107.38	Open To Flow (1)
30	1027.85	112.59	Shut-In(1)
74	1039.20	112.31	End Shut-In(1)
75	1031.59	112.32	Open To Flow (2)
135	1038.79	112.42	Shut-In(2)
196	1038.96	112.41	End Shut-In(2)
197	1809.81	109.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1008.00	100%Water	13.88
852.00	15%Oil/85%Water	11.95
441.00	10%Gas/15%Oil/45%Water/30%Mud	6.19
60.00	10%Gas/90%Oil	0.84
0.00	90' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

E&B Natural Resources
1600 Norris Rd.
Bakersfield, CA 93308
ATTN: Bob O'Dell

31-11s-17w Ellis,KS
Marshall "A" #41
Job Ticket: 47934 **DST#: 4**
Test Start: 2012.09.23 @ 10:53:30

GENERAL INFORMATION:

Formation:	Arbuckle		Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock:	ft (KB)	Tester:	Dustin Rash
Time Tool Opened:	12:41:30		Unit No:	38
Time Test Ended:	19:21:30		Reference Elevations:	2181.00 ft (KB) 2176.00 ft (CF)
Interval:	3709.00 ft (KB) To 3720.00 ft (KB) (TVD)		KB to GR/CF:	5.00 ft
Total Depth:	3720.00 ft (KB) (TVD)			
Hole Diameter:	7.88 inches	Hole Condition: Fair		

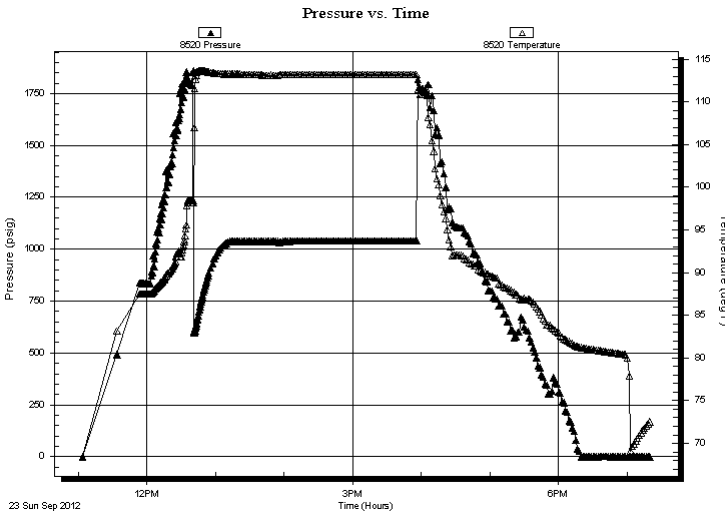
Serial #: 8520

Outside

Press @ RunDepth:	psig @ 3711.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2012.09.23	End Date:	2012.09.23
Start Time:	11:03:45	End Time:	19:20:45
		Last Calib.:	2012.09.23
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF-Strong building blow . BOB in 45 seconds.
ISI-No Return.
FF-Weak building blow . Built to 10 inches.
FSI-Weak surging surface blow throughout.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1008.00	100%Water	13.88
852.00	15%Oil/85%Water	11.95
441.00	10%Gas/15%Oil/45%Water/30%Mud	6.19
60.00	10%Gas/90%Oil	0.84
0.00	90' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

E&B Natural Resources

31-11s-17w Ellis,KS

1600 Norris Rd.
Bakersfield, CA 93308

Marshall "A" #41

Job Ticket: 47934

DST#: 4

ATTN: Bob O'Dell

Test Start: 2012.09.23 @ 10:53:30

Tool Information

Drill Pipe:	Length: 3677.00 ft	Diameter: 3.80 inches	Volume: 51.58 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	8000.00 lb
			<u>Total Volume: 51.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3709.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	39.00 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			3682.00	
Shut In Tool	5.00			3687.00	
Hydraulic tool	5.00			3692.00	
Jars	5.00			3697.00	
Safety Joint	3.00			3700.00	
Packer	5.00			3705.00	28.00 Bottom Of Top Packer
Packer	4.00			3709.00	
Stubb	1.00			3710.00	
Perforations	1.00			3711.00	
Recorder	0.00	8354	Inside	3711.00	
Recorder	0.00	8520	Outside	3711.00	
Perforations	6.00			3717.00	
Bullnose	3.00			3720.00	11.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

E&B Natural Resources

31-11s-17w Ellis,KS

1600 Norris Rd.
Bakersfield, CA 93308

Marshall "A" #41

Job Ticket: 47934

DST#: 4

ATTN: Bob O'Dell

Test Start: 2012.09.23 @ 10:53:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

20000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: 0.34 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1008.00	100%Water	13.875
852.00	15%Oil/85%Water	11.951
441.00	10%Gas/15%Oil/45%Water/30%Mud	6.186
60.00	10%Gas/90%Oil	0.842
0.00	90' G.I.P.	0.000

Total Length: 2361.00 ft

Total Volume: 32.854 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

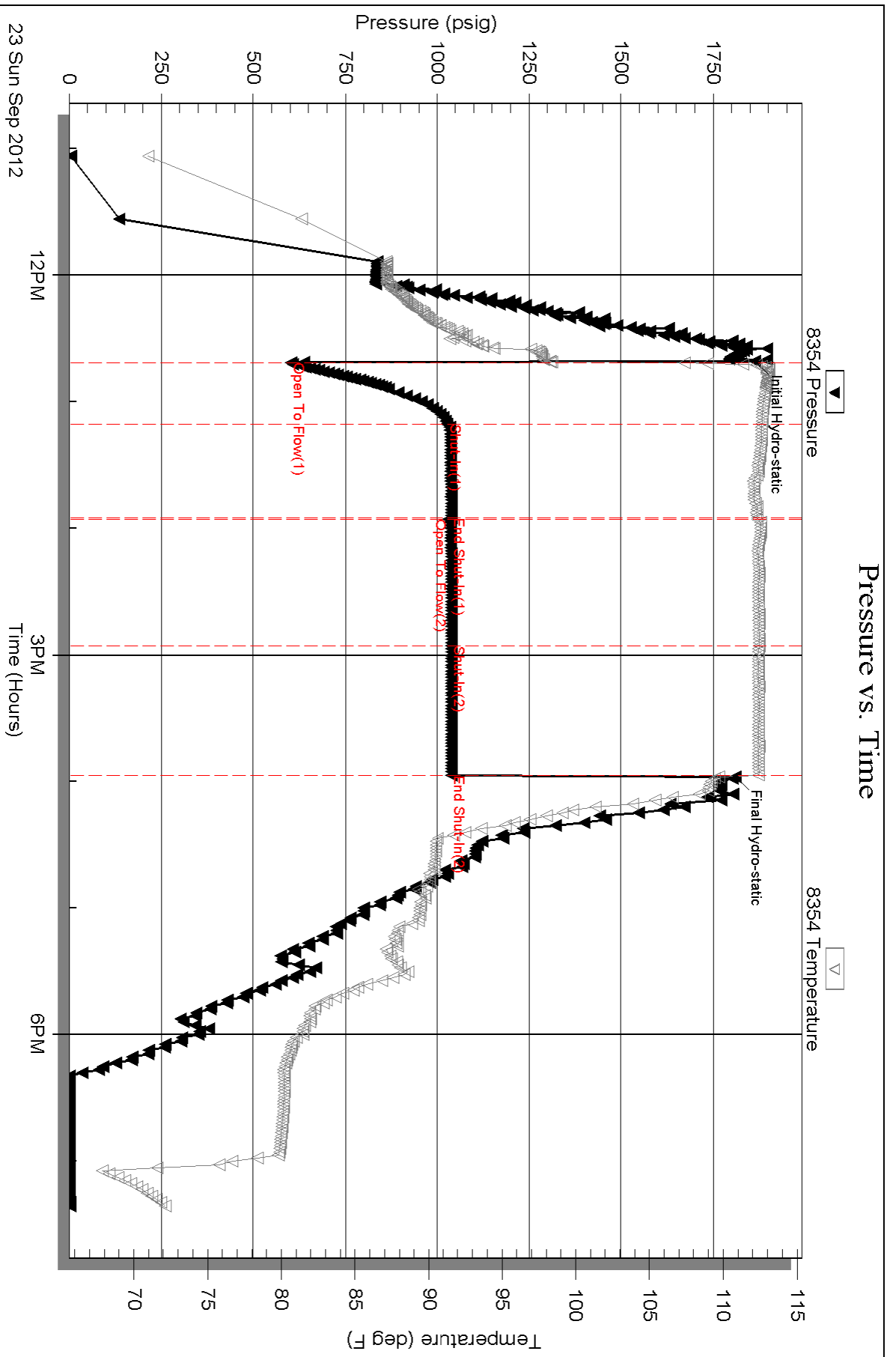
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



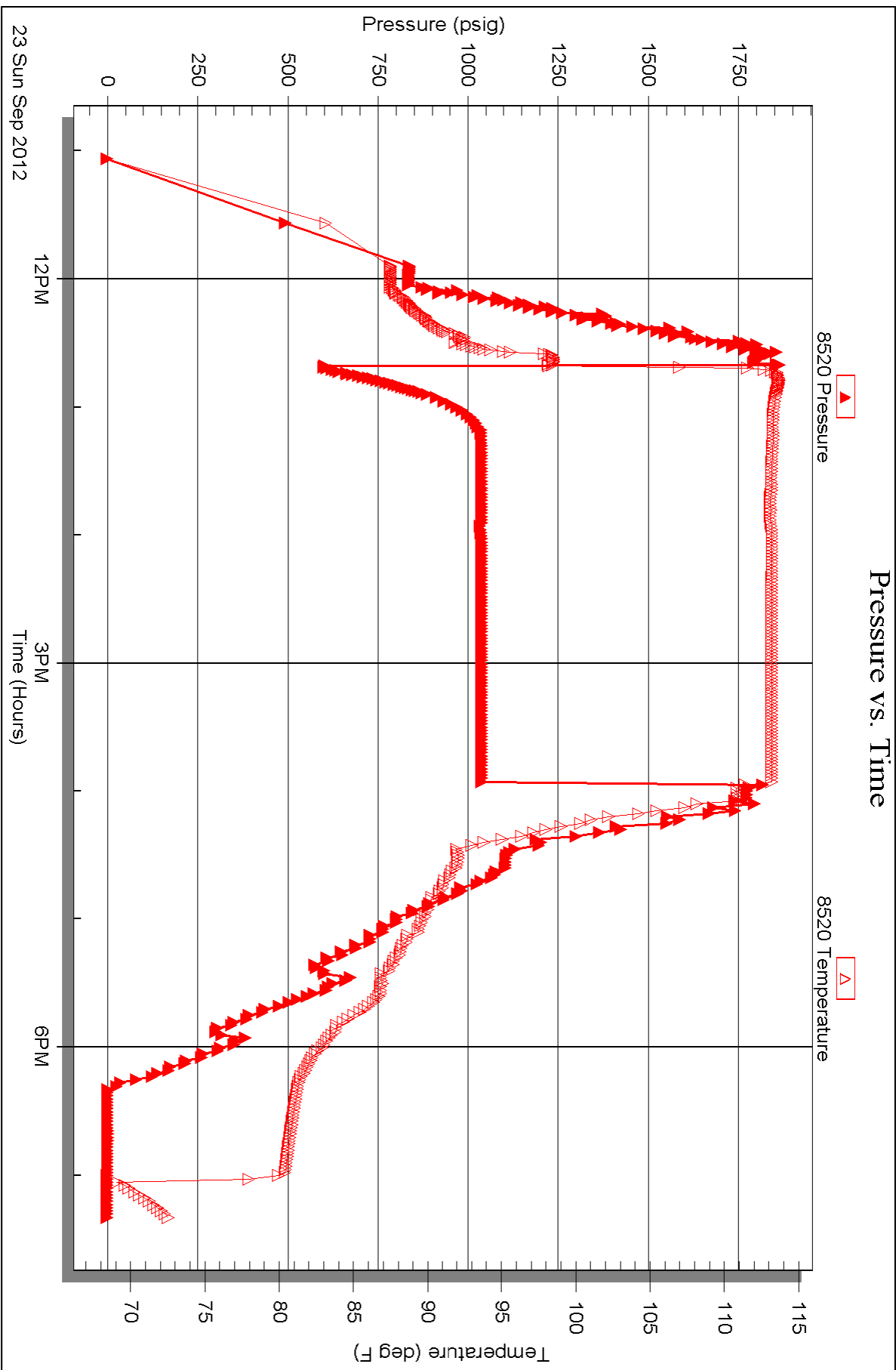
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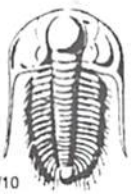
Outside

E&B Natural Resources

Marshall "A" #41

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47931

Well Name & No. Marshall "A" #41 Test No. 1 Date 9-20-12
 Company E&B Natural Resources Elevation 2181 KB 2176 GL
 Address 1600 Norris Rd. Bakersfield, CA 93308
 Co. Rep / Geo. Bob O'Dell Rig Murphy 16
 Location: Sec. 31 Twp. 11S Rge. 17W Co. Ellis State KS

Interval Tested 3363-3390 Zone Tested Toronto
 Anchor Length 27' Drill Pipe Run 3327 Mud Wt. 8.8
 Top Packer Depth 3358 Drill Collars Run 29.06 Vis 65
 Bottom Packer Depth 3363 Wt. Pipe Run 0 WL 7.2
 Total Depth 3390 Chlorides 3700 ppm System LCM 4.0

Blow Description FF- Strong building blow, BOB in 2 minutes
FSI- No Return,
FF- Strong building blow, BOB in 2 minutes,
FSI- No Return,

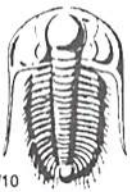
Rec	Feet of	%gas	%oil	%water	%mud
<u>494</u>	<u>Muddy Water</u>			<u>90</u>	<u>10</u>
<u>1071</u>	<u>Muddy Water</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1565 BHT 100 Gravity 46.50 API RW 440 @ 58 ° F Chlorides 17500 ppm

(A) Initial Hydrostatic 1649 Test 1150 T-On Location 2200
 (B) First Initial Flow 100 Jars 250 T-Started 0015
 (C) First Final Flow 439 Safety Joint 75 T-Open 0156
 (D) Initial Shut-In 1143 Circ Sub T-Pulled 0445
 (E) Second Initial Flow 449 Hourly Standby T-Out 0715
 (F) Second Final Flow 692 Mileage 15X2 46.50 Comments Batt- 0005
 (G) Final Shut-In 1132 Sampler
 (H) Final Hydrostatic 1600 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1521.50
 Accessibility MP/DST Disc't
 Sub Total 1521.50

Approved By _____ Our Representative [Signature]

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47932

Well Name & No. Marshall "A" #41 Test No. 2 Date 9-24-72
 Company E&B Natural Resources Elevation 2181 KB 2176 GL
 Address 1600 Norris Rd. Bakersfield, CA 93308
 Co. Rep / Geo. Bob O'Dell Rig Mudwin 16
 Location: Sec. 31 Twp. 11S Rge. 17W Co. Ellis State KS

Interval Tested 3394 - 3445 Zone Tested Lansing "A-B"
 Anchor Length 51' Drill Pipe Run 3360 Mud Wt. 8.8
 Top Packer Depth 3389 Drill Collars Run 29.06 Vis 50
 Bottom Packer Depth 3394 Wt. Pipe Run 0 WL 8.0
 Total Depth 3445 Chlorides 4500 ppm System LCM 4.0#

Blow Description IF - Strong building blow, BOB in 2 minutes 45 seconds,
ISI - No Return,
FF - Strong building blow, BOB in 3 minutes 30 seconds,
FSE - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>378</u>	<u>Muddy Water</u>		<u>80</u>	<u>20</u>	
<u>507</u>	<u>Muddy Water</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 885 BHT 106 Gravity _____ API RW .394 @ 61 °F Chlorides 19500 ppm

(A) Initial Hydrostatic <u>1653</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1445</u>
(B) First Initial Flow <u>69</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1530</u>
(C) First Final Flow <u>270</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1656</u>
(D) Initial Shut-In <u>744</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1945</u>
(E) Second Initial Flow <u>277</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2200</u>
(F) Second Final Flow <u>394</u>	<input checked="" type="checkbox"/> Mileage <u>15X2</u> 46.50	Comments <u>Bart-1523</u>
(G) Final Shut-In <u>733</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1599</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1521.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1521.50</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47933

Well Name & No. Marshall "A" #41 Test No. 3 Date 9-22-12
 Company E+B Natural Resources Elevation 2181 KB 2176 GL
 Address 1600 Norris Rd. Bakersfield, CA 93308
 Co. Rep / Geo. Bob O'Dell Rig Murphy 16
 Location: Sec. 31 Twp. 11S Rge. 17W Co. Ellis State KS

Interval Tested 3688-3708 Zone Tested Aubuckle
 Anchor Length 20' Drill Pipe Run 3644 Mud Wt. 9.2
 Top Packer Depth 3683 Drill Collars Run 29.06 Vis 50
 Bottom Packer Depth 3688 Wt. Pipe Run 0 WL 8.4
 Total Depth 3708 Chlorides 4900 ppm System LCM 8.0#

Blow Description IF-Strong building blow. BOB in 4 minutes 15 seconds.
ISI- No Return,
FF- No Blow,
FSI- No Return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>94</u>	<u>Muddy Water</u>			<u>70%</u>	<u>30</u>
<u>126</u>	<u>Muddy Water</u>			<u>90%</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 220 BHT 110 Gravity 46.50 API RW 424 @ 45 °F Chlorides 25000 ppm

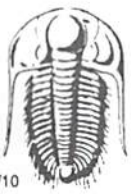
(A) Initial Hydrostatic 1864 Test 1150 T-On Location 2145
 (B) First Initial Flow 56 Jars 250 T-Started 2230
 (C) First Final Flow 113 Safety Joint 75 T-Open 2347
 (D) Initial Shut-In 115 Circ Sub T-Pulled 0235
 (E) Second Initial Flow 115 Hourly Standby T-Out 0430
 (F) Second Final Flow 115 Mileage 15X2 46.50 Comments Barr-2212
 (G) Final Shut-In 116 Sampler
 (H) Final Hydrostatic 1839 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60

Sub Total 1521.50
 Total 1521.50
 MP/DST Disc't [Signature]

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47934

Well Name & No. Marshall "A" #41 Test No. 4 Date 9-23-12
 Company ETB Natural Resources Elevation 2181 KB 2176 GL
 Address 1600 Norris Rd. Bakersfield, CA 93308
 Co. Rep / Geo. Bob O'Dell Rig Marlin 16
 Location: Sec. 31 Twp. 11S Rge. 17W Co. Ellis State KS

Interval Tested 3709-3720 Zone Tested Ambuckle
 Anchor Length 11' Drill Pipe Run 3677 Mud Wt. 9.2
 Top Packer Depth 3704 Drill Collars Run 29.06 Vis 50
 Bottom Packer Depth 3709 Wt. Pipe Run 0 WL 8.4
 Total Depth 3720 Chlorides 4900 ppm System LCM 8.0#

Blow Description IF-Strong building blow. BOB in 45 seconds.
~~IST- No Return.~~
FF- Weak building blow. Built to 10 inches.
~~FST- Weak surging surface blow throughout.~~

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Gassy Oil</u>	<u>10</u>	<u>90</u>		
<u>441</u>	<u>Gassy OCWMA</u>	<u>10</u>	<u>15</u>	<u>45</u>	<u>30</u>
<u>852</u>	<u>OCW</u>		<u>15</u>	<u>85</u>	
<u>1008</u>	<u>Water</u>			<u>100</u>	
	<u>90' G.I.P.</u>				

Rec Total 2361 BHT 113 Gravity 28 API RW 345 @ 68 °F Chlorides 20,000 ppm

(A) Initial Hydrostatic <u>1865</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1030</u>
(B) First Initial Flow <u>602</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1100</u>
(C) First Final Flow <u>1028</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1241</u>
(D) Initial Shut-In <u>1039</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1555</u>
(E) Second Initial Flow <u>1032</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1915</u>
(F) Second Final Flow <u>1039</u>	<input checked="" type="checkbox"/> Mileage <u>15X2</u> 46.50	Comments <u>BOB-1053</u>
(G) Final Shut-In <u>1039</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1810</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1521.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1521.50</u>	

Approved By _____ Our Representative D. Rash

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