



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1124912

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	E & B Natural Resources Management Corp.
Well Name	MARSHALL E 32
Doc ID	1124912

All Electric Logs Run

Gamma Ray/Caliper Log
Dual Compensated Porosity Log
Dual Induction Log
Microresistivity Log



## DRILL STEM TEST REPORT

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

1600 Norris Rd  
Bakersfield CA 93308

ATTN: Bob O'Dell

### **Marshall "E" #32**

#### **24-11s-18w Ellis,KS**

Start Date: 2012.08.24 @ 15:23:00

End Date: 2012.08.24 @ 20:47:00

Job Ticket #: 47646                      DST #: 1

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

Printed: 2012.08.28 @ 11:58:33



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

E & B Natural Resources

**24-11s-18w Ellis,KS**

1600 Norris Rd  
Bakersfield CA 93308

**Marshall "E" #32**

ATTN: Bob O'Dell

Job Ticket: 47646

**DST#: 1**

Test Start: 2012.08.24 @ 15:23:00

## GENERAL INFORMATION:

Formation: **LKC " I "**

Deviated: No Whipstock: 1892.00 ft (KB)

Time Tool Opened: 17:25:30

Time Test Ended: 20:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 58

**Interval: 3261.00 ft (KB) To 3280.00 ft (KB) (TVD)**

Reference Elevations: 1892.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1890.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 2.00 ft

**Serial #: 8674 Outside**

Press @ Run Depth: 22.40 psig @ 3262.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.24

End Date:

2012.08.24

Last Calib.: 2012.08.24

Start Time: 15:23:05

End Time:

20:45:40

Time On Btm: 2012.08.24 @ 17:25:20

Time Off Btm: 2012.08.24 @ 19:24:40

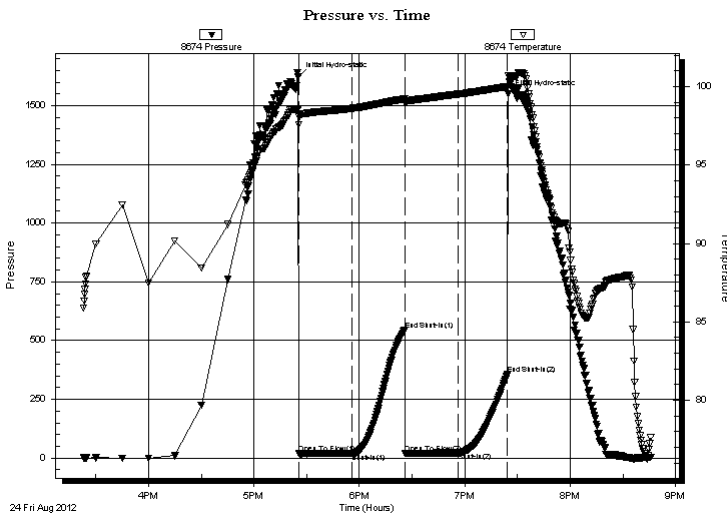
**TEST COMMENT:** 30-IFP- Weak Surface Blow Died in 4 min

30-ISIP- No Blow

30-FFP- No Blow

30-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.58	98.61	Initial Hydro-static
1	19.17	97.58	Open To Flow (1)
31	19.35	98.61	Shut-In(1)
61	545.08	99.21	End Shut-In(1)
61	20.53	98.98	Open To Flow (2)
91	22.40	99.51	Shut-In(2)
119	358.25	100.01	End Shut-In(2)
120	1548.78	100.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	MUD 100%	0.01

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

E & B Natural Resources

24-11s-18w Ellis, KS

1600 Norris Rd  
Bakersfield CA 93308

Marshall "E" #32

Job Ticket: 47646

DST#: 1

ATTN: Bob O'Dell

Test Start: 2012.08.24 @ 15:23:00

### GENERAL INFORMATION:

Formation: LKC "I"

Deviated: No Whipstock: 1892.00 ft (KB)

Time Tool Opened: 17:25:30

Time Test Ended: 20:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 58

Interval: 3261.00 ft (KB) To 3280.00 ft (KB) (TVD)

Reference Elevations: 1892.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1890.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 2.00 ft

Serial #: 8355 Inside

Press @ RunDepth: psig @ 3262.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.24

End Date:

2012.08.24

Last Calib.:

2012.08.24

Start Time: 15:22:20

End Time:

20:45:59

Time On Btm:

Time Off Btm:

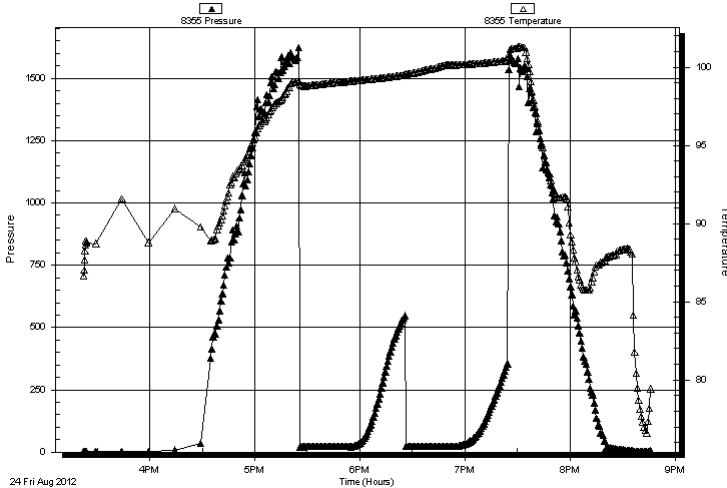
TEST COMMENT: 30-IFP- Weak Surface Blow Died in 4 min

30-ISIP- No Blow

30-FFP- No Blow

30-FSIP- No Blow

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
2.00	MUD 100%	0.01

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

E & B Natural Resources

**24-11s-18w Ellis,KS**

1600 Norris Rd  
Bakersfield CA 93308

**Marshall "E" #32**

Job Ticket: 47646

**DST#: 1**

ATTN: Bob O'Dell

Test Start: 2012.08.24 @ 15:23:00

## Tool Information

Drill Pipe:	Length: 3234.00 ft	Diameter: 3.80 inches	Volume: 45.36 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 45.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3261.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	47.00 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			3234.00	
Shut In Tool	5.00			3239.00	
Hydraulic tool	5.00			3244.00	
Jars	5.00			3249.00	
Safety Joint	3.00			3252.00	
Packer	5.00			3257.00	28.00 Bottom Of Top Packer
Packer	4.00			3261.00	
Stubb	1.00			3262.00	
Recorder	0.00	8355	Inside	3262.00	
Recorder	0.00	8674	Outside	3262.00	
Perforations	15.00			3277.00	
Bullnose	3.00			3280.00	19.00 Bottom Packers & Anchor

**Total Tool Length: 47.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

E & B Natural Resources

**24-11s-18w Ellis,KS**

1600 Norris Rd  
Bakersfield CA 93308

**Marshall "E" #32**

Job Ticket: 47646

**DST#: 1**

ATTN: Bob O'Dell

Test Start: 2012.08.24 @ 15:23:00

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	MUD 100%	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:

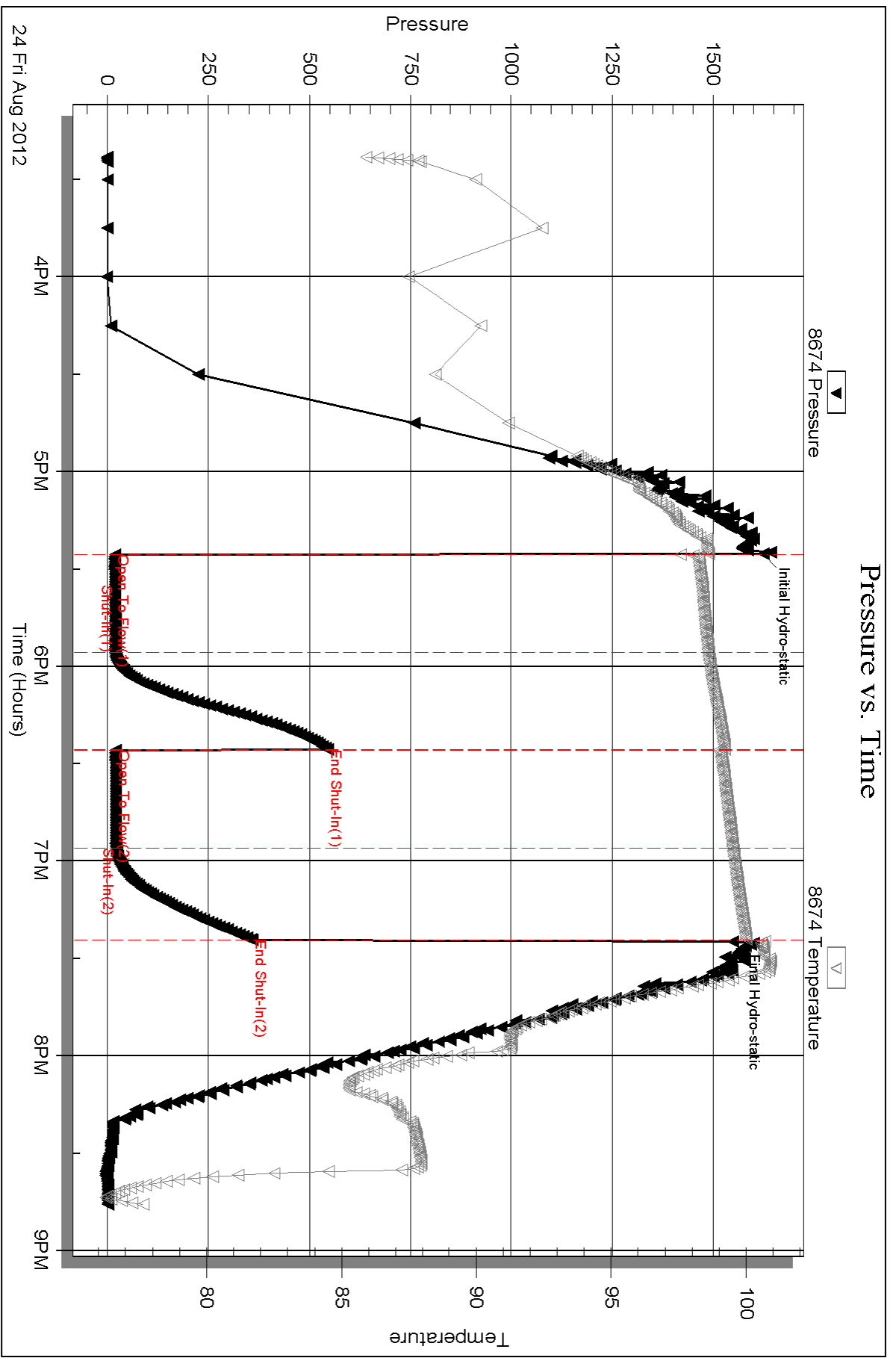


Serial #: 8674

Outside E & B Natural Resources

Marshall "E" #32

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 47646

Printed: 2012.08.28 @ 11:58:39

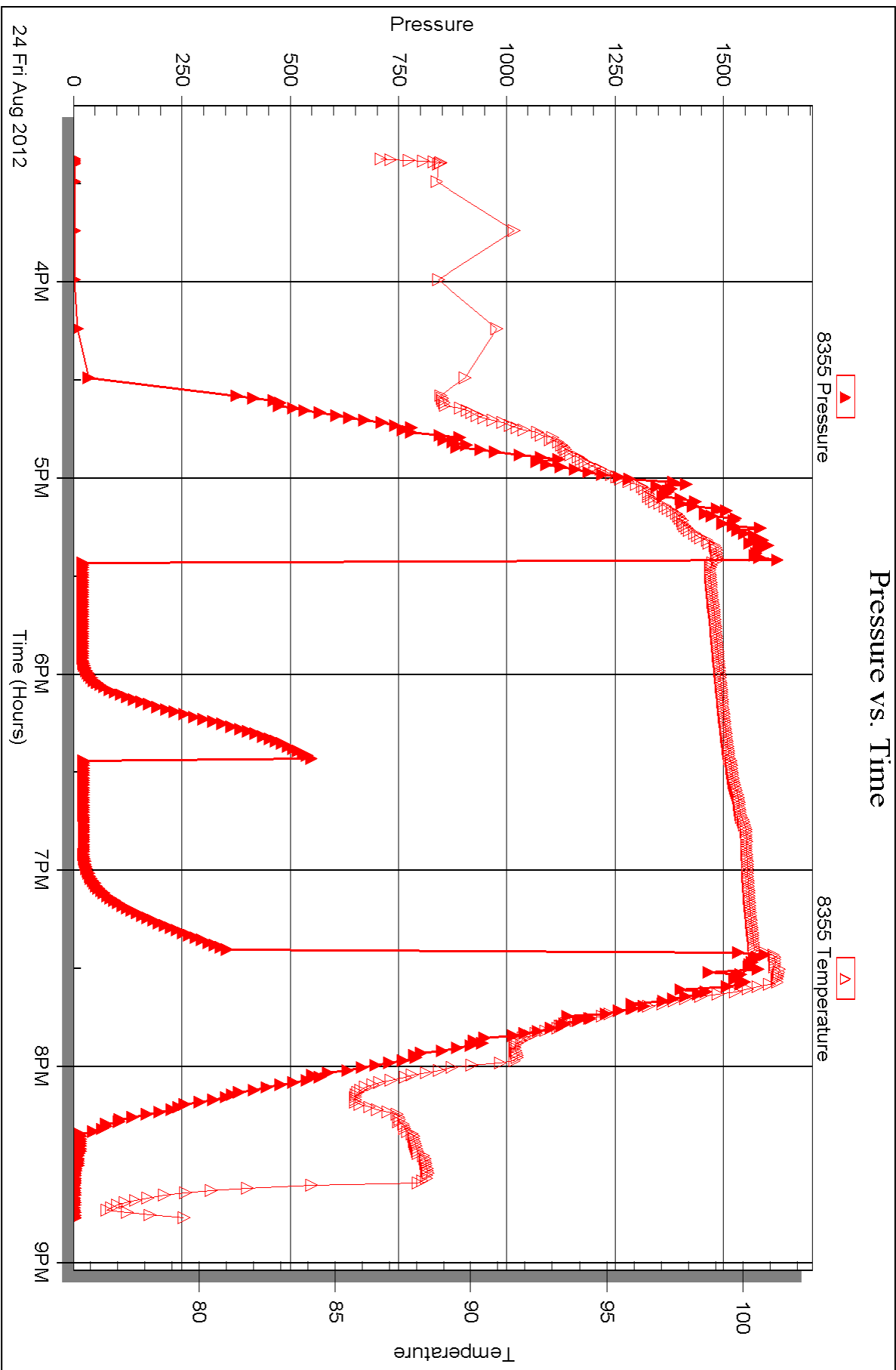
Serial #: 8355

Inside

E & B Natural Resources

Marshall "E" #32

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 "E" #32**

#### **24-11s-18w Ellis,KS**

Start Date: 2012.08.25 @ 10:31:00

End Date: 2012.08.25 @ 17:40:00

Job Ticket #: 47647                      DST #: 2

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

Printed: 2012.08.28 @ 11:57:23



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

E & B Natural Resources

**24-11s-18w Ellis,KS**

1600 Norris Rd  
Bakersfield CA 93308

**Marshall "E" #32**

ATTN: Bob O'Dell

Job Ticket: 47647

**DST#: 2**

Test Start: 2012.08.25 @ 10:31:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 1892.00 ft (KB)

Time Tool Opened: 12:27:10

Time Test Ended: 17:40:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 58

**Interval: 3344.00 ft (KB) To 3408.00 ft (KB) (TVD)**

Reference Elevations: 1892.00 ft (KB)

Total Depth: 3408.00 ft (KB) (TVD)

1890.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 2.00 ft

**Serial #: 8674 Inside**

Press @ Run Depth: 51.87 psig @ 3345.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.25 End Date: 2012.08.25

Last Calib.: 2012.08.25

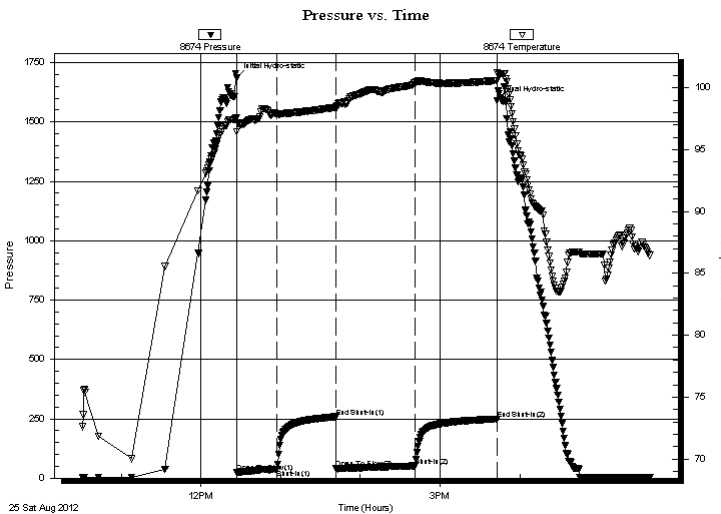
Start Time: 10:31:05 End Time: 17:38:20

Time On Btm: 2012.08.25 @ 12:27:00

Time Off Btm: 2012.08.25 @ 15:43:00

**TEST COMMENT:** 30-IFP- Surface Blow Building to 2"  
45-ISIP- No Blow  
60-FFP- Weak Surface Blow in 5 min No Build  
60-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.03	97.59	Initial Hydro-static
1	25.67	96.44	Open To Flow (1)
31	38.01	97.92	Shut-In(1)
75	258.29	98.42	End Shut-In(1)
75	39.84	98.33	Open To Flow (2)
134	51.87	100.40	Shut-In(2)
196	248.15	100.58	End Shut-In(2)
196	1588.84	101.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
66.00	Oil Speck Mud	0.66

\* Recovery from multiple tests

## 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

**24-11s-18w Ellis,KS**

**Marshall "E" #32**

Job Ticket: 47647

**DST#: 2**

Test Start: 2012.08.25 @ 10:31:00

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 1892.00 ft (KB)

Time Tool Opened: 12:27:10

Time Test Ended: 17:40:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 58

**Interval: 3344.00 ft (KB) To 3408.00 ft (KB) (TVD)**

Total Depth: 3408.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1892.00 ft (KB)

1890.00 ft (CF)

KB to GR/CF: 2.00 ft

**Serial #: 8355 Outside**

Press @ Run Depth: psig @ 3345.00 ft (KB)

Start Date: 2012.08.25

End Date:

2012.08.25

Capacity: 8000.00 psig

Last Calib.:

2012.08.25

Start Time: 10:31:05

End Time:

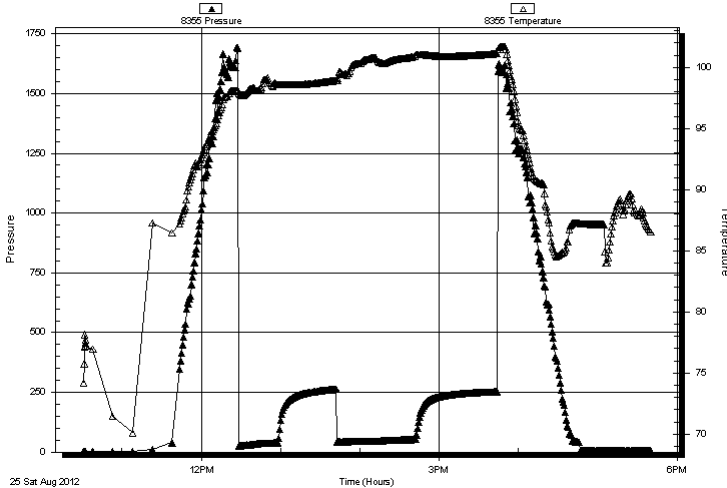
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Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30-IFP- Surface Blow Building to 2"  
45-ISIP- No Blow  
60-FFP- Weak Surface Blow in 5 min No Build  
60-FSIP- No Blow

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
66.00	Oil Speck Mud	0.66

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

E & B Natural Resources

**24-11s-18w Ellis,KS**

1600 Norris Rd  
Bakersfield CA 93308

**Marshall "E" #32**

Job Ticket: 47647

**DST#: 2**

ATTN: Bob O'Dell

Test Start: 2012.08.25 @ 10:31:00

## Tool Information

Drill Pipe:	Length: 3297.00 ft	Diameter: 3.80 inches	Volume: 46.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 46.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3344.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	92.00 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			3317.00	
Shut In Tool	5.00			3322.00	
Hydraulic tool	5.00			3327.00	
Jars	5.00			3332.00	
Safety Joint	3.00			3335.00	
Packer	5.00			3340.00	28.00 Bottom Of Top Packer
Packer	4.00			3344.00	
Stubb	1.00			3345.00	
Recorder	0.00	8674	Inside	3345.00	
Recorder	0.00	8355	Outside	3345.00	
Perforations	26.00			3371.00	
Change Over Sub	1.00			3372.00	
Blank Spacing	32.00			3404.00	
Change Over Sub	1.00			3405.00	
Bullnose	3.00			3408.00	64.00 Bottom Packers & Anchor

**Total Tool Length: 92.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

E & B Natural Resources

**24-11s-18w Ellis,KS**

1600 Norris Rd  
Bakersfield CA 93308

**Marshall "E" #32**

Job Ticket: 47647

**DST#: 2**

ATTN: Bob O'Dell

Test Start: 2012.08.25 @ 10:31:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
66.00	Oil Speck Mud	0.662

Total Length: 66.00 ft      Total Volume: 0.662 bbl

Num Fluid Samples: 0

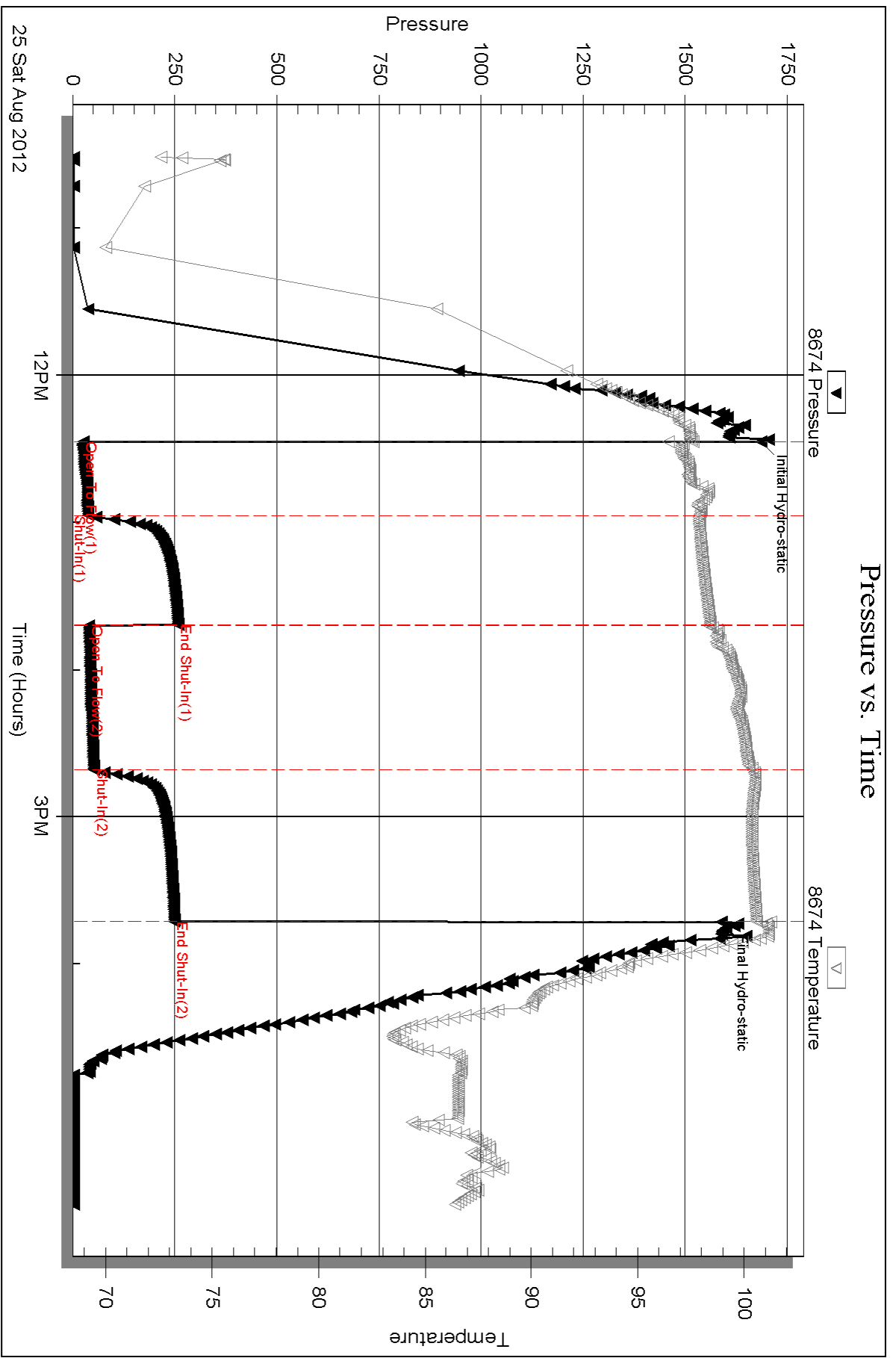
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



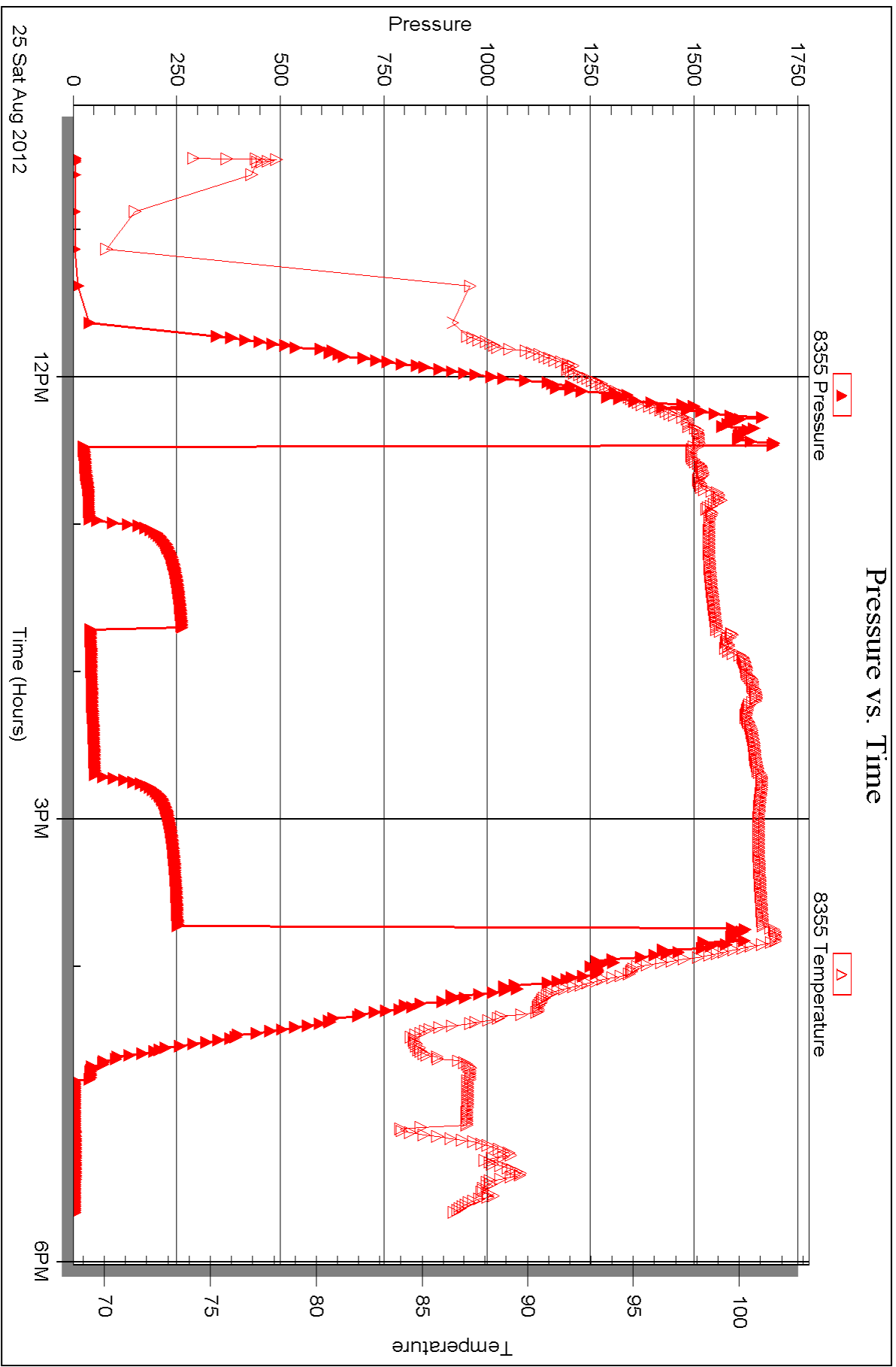


Serial #: 8355

Outside E & B Natural Resources

Marshall "E" #32

DST Test Number: 2





## DRILL STEM TEST REPORT

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

1600 Norris Rd  
Bakersfield CA 93308

ATTN: Bob O'Dell

### **Marshall "E" #32**

#### **24-11s-18w Ellis,KS**

Start Date: 2012.08.25 @ 23:03:00

End Date: 2012.08.26 @ 06:48:00

Job Ticket #: 47648                      DST #: 3

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

Printed: 2012.08.28 @ 11:54:35



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

E & B Natural Resources

**24-11s-18w Ellis,KS**

1600 Norris Rd  
Bakersfield CA 93308

**Marshall "E" #32**

ATTN: Bob O'Dell

Job Ticket: 47648

**DST#: 3**

Test Start: 2012.08.25 @ 23:03:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 1892.00 ft (KB)

Time Tool Opened: 00:54:10

Time Test Ended: 06:48:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 58

**Interval: 3409.00 ft (KB) To 3422.00 ft (KB) (TVD)**

Reference Elevations: 1892.00 ft (KB)

Total Depth: 3422.00 ft (KB) (TVD)

1890.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 2.00 ft

**Serial #: 8674 Inside**

Press @ Run Depth: 392.98 psig @ 3410.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.25

End Date:

2012.08.26

Last Calib.:

2012.08.26

Start Time: 23:03:05

End Time:

06:46:20

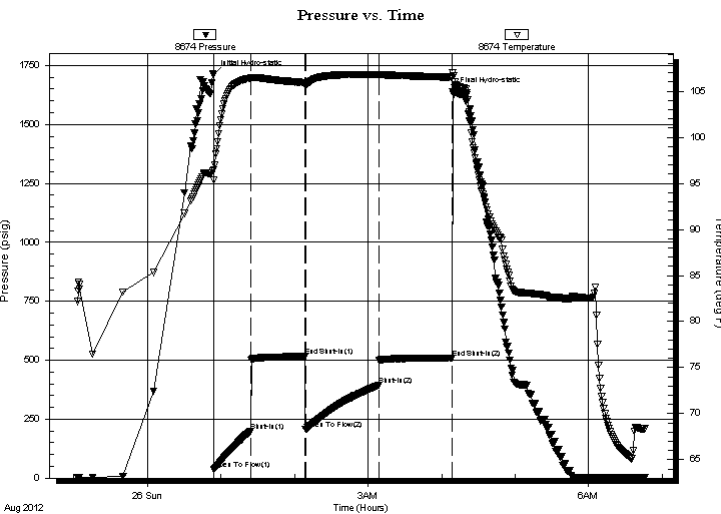
Time On Btm:

2012.08.26 @ 00:54:00

Time Off Btm:

2012.08.26 @ 04:09:00

**TEST COMMENT:** 30-IFP- BOB in 6 min  
45-ISIP- Surface Blow in 12min Died in 24 min  
60-FFP- BOB in 7 min  
60-FSIP- Surface Blow in 1min Died in 28 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.81	96.49	Initial Hydro-static
1	38.18	95.33	Open To Flow (1)
30	198.98	106.40	Shut-In(1)
75	516.21	105.91	End Shut-In(1)
75	206.01	105.72	Open To Flow (2)
135	392.98	106.78	Shut-In(2)
195	510.02	106.50	End Shut-In(2)
195	1640.66	107.03	Final Hydro-static

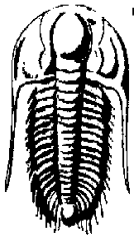
## Recovery

Length (ft)	Description	Volume (bbl)
568.00	O&MCW 2%o 3% m 95%w	7.70
124.00	O&MCW 10%o 20% m 70%w	1.74
124.00	GO&WCM 10%g 15%o 15%w 60% m	1.74
50.00	CO 100%o	0.70
0.00	60 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

E & B Natural Resources

**24-11s-18w Ellis,KS**

1600 Norris Rd  
Bakersfield CA 93308

**Marshall "E" #32**

ATTN: Bob O'Dell

Job Ticket: 47648

**DST#: 3**

Test Start: 2012.08.25 @ 23:03:00

## GENERAL INFORMATION:

**Formation:** **Arbuckle**  
**Deviated:** No **Whipstock:** 1892.00 ft (KB)  
**Time Tool Opened:** 00:54:10  
**Time Test Ended:** 06:48:00

**Interval:** **3409.00 ft (KB) To 3422.00 ft (KB) (TVD)**  
**Total Depth:** 3422.00 ft (KB) (TVD)  
**Hole Diameter:** 7.88 inches **Hole Condition:** Fair

**Test Type:** Conventional Bottom Hole (Reset)  
**Tester:** Jim Svaty  
**Unit No:** 58

**Reference Elevations:** 1892.00 ft (KB)  
 1890.00 ft (CF)  
**KB to GR/CF:** 2.00 ft

**Serial #: 8355**

**Outside**

**Press @ RunDepth:** psig @ 3410.00 ft (KB)

**Capacity:** 8000.00 psig

**Start Date:** 2012.08.25

**End Date:**

2012.08.26

**Last Calib.:**

2012.08.26

**Start Time:** 23:03:05

**End Time:**

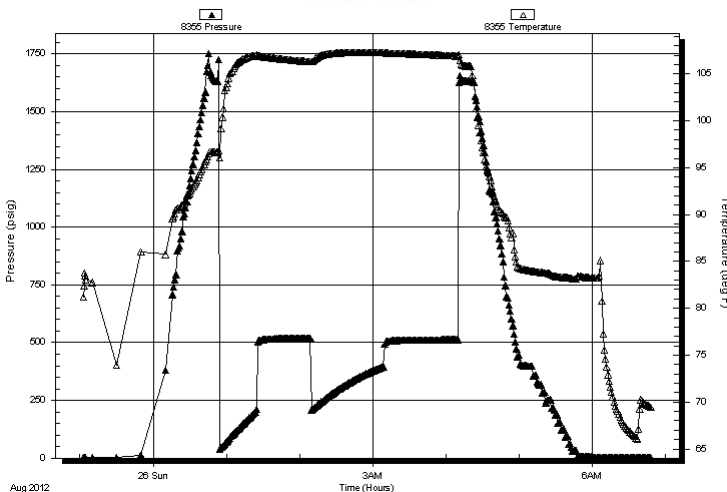
06:47:44

**Time On Btm:**

**Time Off Btm:**

**TEST COMMENT:** 30-IFP- BOB in 6 min  
 45-ISIP- Surface Blow in 12min Died in 24 min  
 60-FFP- BOB in 7 min  
 60-FSIP- Surface Blow in 1min Died in 28 min

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
568.00	O&MCW 2%o 3%m 95%w	7.70
124.00	O&MCW 10%o 20%m 70%w	1.74
124.00	GO&WCM 10%g 15%o 15%w 60%m	1.74
50.00	CO 100%o	0.70
0.00	60 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

E & B Natural Resources

**24-11s-18w Ellis,KS**

1600 Norris Rd  
Bakersfield CA 93308

**Marshall "E" #32**

Job Ticket: 47648

**DST#: 3**

ATTN: Bob O'Dell

Test Start: 2012.08.25 @ 23:03:00

## Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.80 inches	Volume: 47.13 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 47.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3409.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	41.00 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			3382.00	
Shut In Tool	5.00			3387.00	
Hydraulic tool	5.00			3392.00	
Jars	5.00			3397.00	
Safety Joint	3.00			3400.00	
Packer	5.00			3405.00	28.00 Bottom Of Top Packer
Packer	4.00			3409.00	
Stubb	1.00			3410.00	
Recorder	0.00	8674	Inside	3410.00	
Recorder	0.00	8355	Outside	3410.00	
Perforations	9.00			3419.00	
Bullnose	3.00			3422.00	13.00 Bottom Packers & Anchor

**Total Tool Length: 41.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

E & B Natural Resources

**24-11s-18w Ellis,KS**

1600 Norris Rd  
Bakersfield CA 93308

**Marshall "E" #32**

Job Ticket: 47648

**DST#: 3**

ATTN: Bob O'Dell

Test Start: 2012.08.25 @ 23:03:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

5100 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
568.00	O&MCW 2%o 3%m 95%w	7.703
124.00	O&MCW 10%o 20%m 70%w	1.739
124.00	GO&WCM 10%g 15%o 15%w 60%m	1.739
50.00	CO 100%o	0.701
0.00	60 GIP	0.000

Total Length: 866.00 ft

Total Volume: 11.882 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

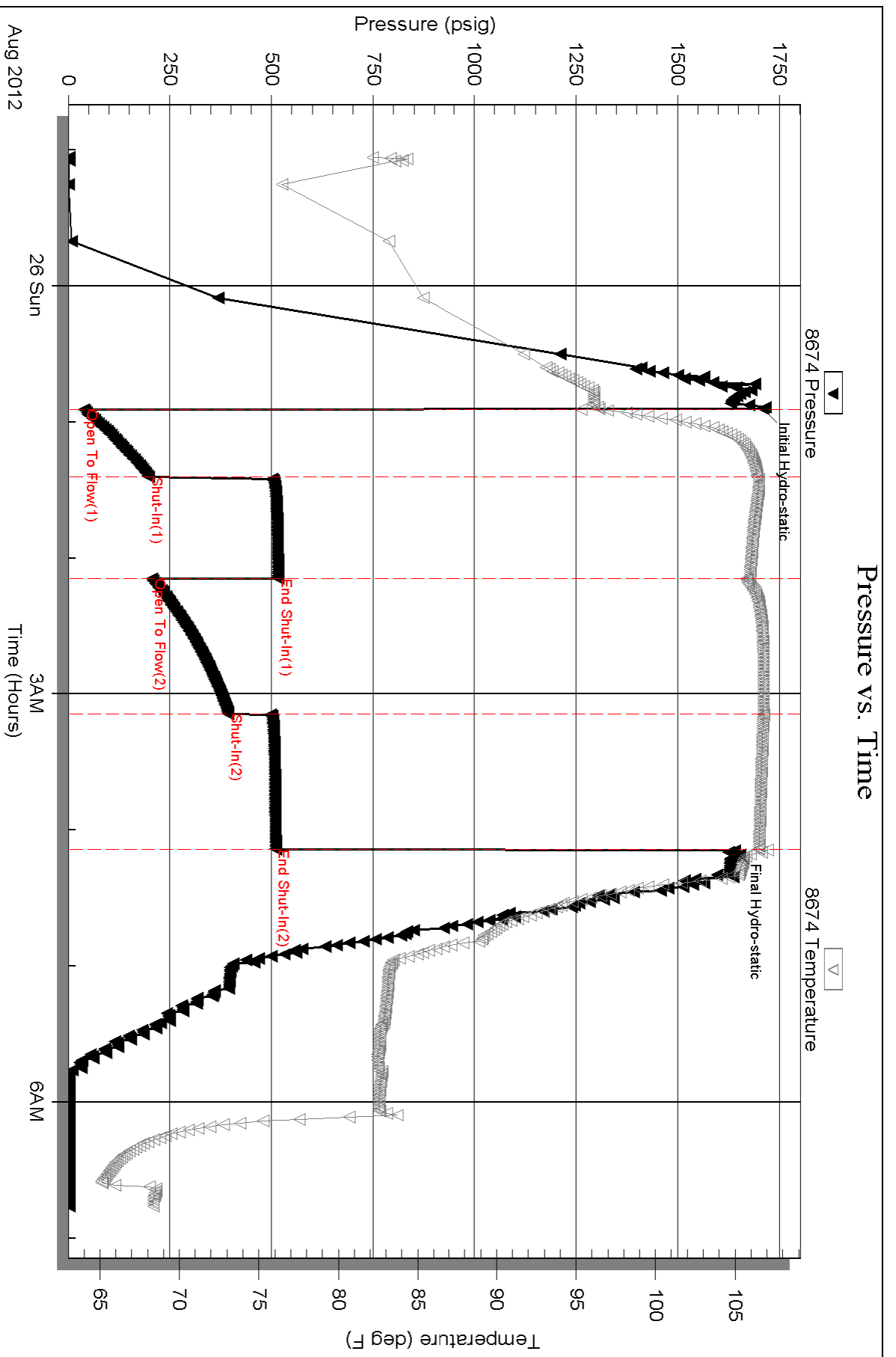
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1.26@67

### Pressure vs. Time

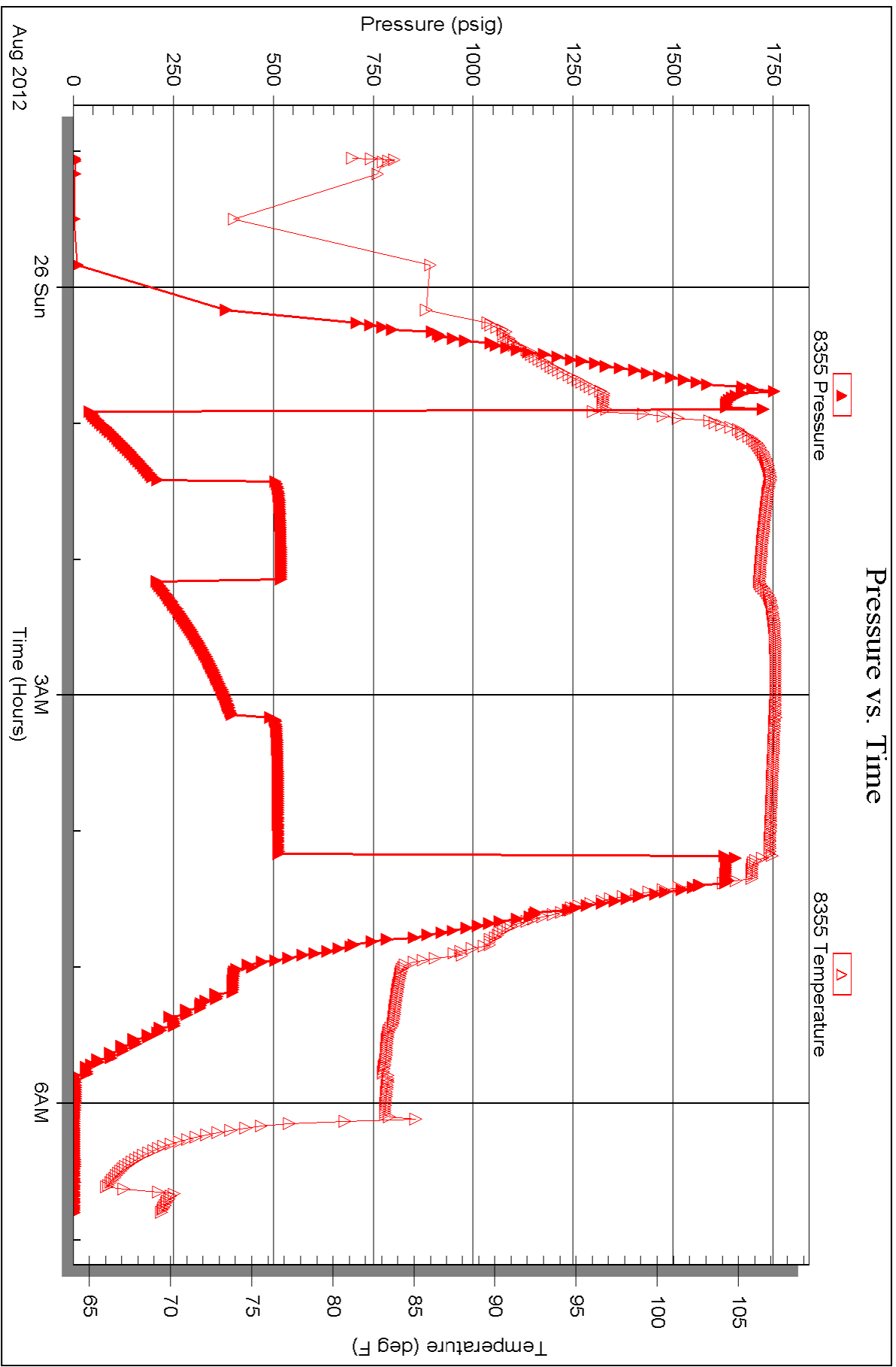


Serial #: 8355

Outside E & B Natural Resources

Marshall "E" #32

DST Test Number: 3







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47646

Well Name & No. Marshall "E" #32 Test No. 1 Date 8-24-12  
 Company E & B Natural Resources Elevation 1892 KB 1890 GL  
 Address 1600 Norris Rd Bakersfield CA 93308  
 Co. Rep / Geo. Bob O'Dell 316-7061553 Rig Murfin Rig # 16  
 Location: Sec. 24 Twp. 11<sup>s</sup> Rge. 18<sup>w</sup> Co. Ellis State KS

Interval Tested 3261 - 3280 Zone Tested LKC "I"  
 Anchor Length 19 Drill Pipe Run 3234 Mud Wt. 8.9  
 Top Packer Depth 3256 Drill Collars Run 29 Vis 51  
 Bottom Packer Depth 3261 Wt. Pipe Run 0 WL 7.2  
 Total Depth 3280 Chlorides 6900 ppm System LCM 3

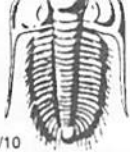
Blow Description IFP - Weak Surface Blow Died in 4mins  
ISIP - No Blow  
FFP - No Blow  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>mud</u>			<u>100</u>	

Rec Total 2 BHT 100 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1623</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>14:50</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>15:23</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>17:26</u>
(D) Initial Shut-In <u>545</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>19:26</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:47</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>34 RT</u> 52.70	Comments _____
(G) Final Shut-In <u>358</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1548</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1527.70</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1527.70</u>	

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. 47647

Well Name & No. Marshall "E" # 32 Test No. 2 Date 8-25-12  
 Company E + B Natural Resources Elevation 1892 KB 1890 GL  
 Address 1600 Norris Rd Bakersfield CA 93308  
 Co. Rep / Geo. Bob O'Dell Rig Muffin Rig # 16  
 Location: Sec. 24 Twp. 11<sup>00</sup> Rge. 18<sup>W</sup> Co. Ellis State KS

Interval Tested 3344 - 3408 Zone Tested Arbuckle  
 Anchor Length 64 Drill Pipe Run 3297 Mud Wt. 9.0  
 Top Packer Depth 3339 Drill Collars Run 29 Vis 50  
 Bottom Packer Depth 3344 Wt. Pipe Run 0 WL 7.6  
 Total Depth 3408 Chlorides 8700 ppm System LCM 6.0

Blow Description IFP - Surface Blow Building To 2 in.  
ISIP - No Blow  
FFP - Weak Surface Blow in 5 min. No Build.  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>66</u>	<u>Oil speck Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 66 BHT 100 Gravity 30 API RW @      ° F Chlorides      ppm

(A) Initial Hydrostatic <u>1685</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>10:14</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>10:31</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>12:28</u>
(D) Initial Shut-In <u>258</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>15:43</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:40</u>
(F) Second Final Flow <u>51</u>	<input checked="" type="checkbox"/> Mileage 52.70	Comments
(G) Final Shut-In <u>248</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1588</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1527.70

Sub Total 1527.70

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. 47648

Well Name & No. Marshall "E" #32 Test No. 3 Date 8-25-12  
 Company E & B Natural Resources Elevation 1892 KB 1890 GL  
 Address 1600 Norris Rd Bakersfield CA 93308  
 Co. Rep / Geo. Bob O'Dell Rig Murfin Rig #16  
 Location: Sec. 24 Twp. 11<sup>s</sup> Rge. 18<sup>w</sup> Co. Ellis State KS

Interval Tested 3409 - 3422 Zone Tested Arbuckle  
 Anchor Length 13 Drill Pipe Run 3360 Mud Wt. 9.0  
 Top Packer Depth 3404 Drill Collars Run 29 Vis 50  
 Bottom Packer Depth 3409 Wt. Pipe Run 0 WL 7.6  
 Total Depth 3422 Chlorides 8700 ppm System LCM 6.0

Blow Description I FP - BOB 6min  
ISIP - SURFACE Blow in 2min Dried in 24min.  
FFP - BOB 7min  
FSIP - SURFACE Blow in 1min Dried in 28min

Rec	Feet of	%gas	%oil	%water	%mud
<u>568</u>	<u>04 MCW</u>	<u>2</u>	<u>95</u>	<u>3</u>	
<u>124</u>	<u>04 MCW</u>	<u>10</u>	<u>70</u>	<u>20</u>	
<u>124</u>	<u>204 WCM</u>	<u>10</u>	<u>15</u>	<u>15</u>	<u>60</u>
<u>50</u>	<u>CO</u>	<u>100</u>			
<u>60</u>	<u>25 IP</u>				

Rec Total 866 BHT 106 Gravity 30 API RW 1.26 @ 67 °F Chlorides 5100 ppm

(A) Initial Hydrostatic 1710  Test 1150 T-On Location 22:38  
 (B) First Initial Flow 38  Jars 250 T-Started 23:03  
 (C) First Final Flow 198  Safety Joint 75 T-Open 00:55  
 (D) Initial Shut-In 516  Circ Sub \_\_\_\_\_ T-Pulled 04:10  
 (E) Second Initial Flow 206  Hourly Standby \_\_\_\_\_ T-Out 06:48  
 (F) Second Final Flow 392  Mileage 52.70 Comments \_\_\_\_\_  
 (G) Final Shut-In 510  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1640  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

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

Sub Total 1527.70 Total 1527.70 MP/DST Disc't \_\_\_\_\_  
 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.



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE Invoice # 252641  
-----  
Invoice Date: 09/11/2012 Terms: 10/10/30,n/30 Page 1  
-----

E & B NATURAL RESOURCES  
MANAGEMENT CORPORATION  
P.O. BOX 784  
HAYS KS 67601  
(661) 679-1700

MARSHALL E #32  
37125  
24-11-18  
09-04-2012  
KS

Sublet Performed Description Total  
9995-130 CEMENT EQUIPMENT DISCOUNT -184.50

Description	Hours	Unit Price	Total
399 CEMENT PUMP (SURFACE)	1.00	1695.00	1695.00
399 EQUIPMENT MILEAGE (ONE WAY)	30.00	5.00	150.00

Amount 1,660.50  
Co. 36  
Acct. # \_\_\_\_\_  
Project # 12 DR 3182  
Cost Center 510501  
Approval \_\_\_\_\_  
*K.F. 9-13-12*

Amount Due 1845.00 if paid after 10/11/2012

-----

Parts:	.00	Freight:	.00	Tax:	.00	AR	1660.5
Labor:	.00	Misc:	.00	Total:	1660.50		
Sublt:	-184.50	Supplies:	.00	Change:	.00		

-----

Signed \_\_\_\_\_ Date \_\_\_\_\_



TICKET NUMBER 37125  
 LOCATION Oakley, KS  
 FOREMAN Kelly Geibel

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-4-12	2708	Marshal E #32	24	11	18	Ellis KS

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
E-63 Natural Res. Hays N to Selma River Rd 2 E 25 E into	399	Jerry Y		
	528	DeMora M		
	460	Mike M		

CITY	STATE	ZIP CODE

JOB TYPE ann squeeze HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5 1/2  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING 2 7/8 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: safety meeting, rigged up on well, loaded ~~truck~~ peckside & pressured to 500#, loaded tubing & tried to get injection rate but couldn't, rigged down left location

I thank you Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<del>541013</del>	1	PUMP CHARGE	1685 <sup>00</sup>	1685 <sup>00</sup>
54100	30 mi	MILEAGE	5 <sup>00</sup>	150 <sup>00</sup>
			1845 <sup>00</sup>	1845 <sup>00</sup>
			184 <sup>50</sup>	184 <sup>50</sup>
			1166 <sup>50</sup>	1166 <sup>50</sup>
SALES TAX				
ESTIMATED TOTAL			11660.50	11660.50

Ravin 3737

AUTHORIZATION David Jensen TITLE Prod Sup DATE 9-4-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

252641



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 252357

Invoice Date: 08/27/2012 Terms: 10/10/30,n/30

Page 1

E & B NATURAL RESOURCES  
MANAGEMENT CORPORATION  
P.O. BOX 784  
HAYS KS 67601  
(661) 679-1700

MARSHALL E #32  
37118  
24-11-18  
08-27-2012  
KS

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	125.00	22.5500	2818.75
1131	60/40 POZ MIX	575.00	15.1000	8682.50
1118B	PREMIUM GEL / BENTONITE	3956.00	.2500	989.00
1110A	KOL SEAL (50# BAG)	625.00	.5600	350.00
1107	FLO-SEAL (25#)	142.00	2.8200	400.44
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	413.0000	413.00
4130	CENTRALIZER 5 1/2"	7.00	58.0000	406.00
4104	CEMENT BASKET 5 1/2"	5.00	276.0000	1380.00
4283	DV TOOL W/ LATCH DOWN	1.00	3850.0000	3850.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1978.97
9995-130	CEMENT EQUIPMENT DISCOUNT	-522.50

Description	Hours	Unit Price	Total
399 CEMENT PSI CHARGES	1.00	2700.00	2700.00
399 EQUIPMENT MILEAGE (ONE WAY)	45.00	5.00	225.00
566 TON MILEAGE DELIVERY	1.00	2299.95	2299.95

Amount 23,635.25

Co. 36

Acct. # \_\_\_\_\_

Project # 12DR 3182

Cost Center 510501

Approval \_\_\_\_\_

Amount Due 26261.40 if paid after 09/26/2012

Parts:	19789.69	Freight:	.00	Tax:	1122.08	AR	23635.25
Labor:	.00	Misc:	.00	Total:	23635.25		
Sublt:	-2501.47	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_

Date \_\_\_\_\_



**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 37118  
LOCATION Oakley, KS  
FOREMAN Kelly Gabe

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
8-27-12	2700	Marshall E #32	24	11	18	Ellis	
CUSTOMER <u>E &amp; B Natural Res</u>		Mailing Address <u>Hayes N to saline River Rd 2 E 35 E into</u>		TRUCK #	DRIVER	TRUCK #	DRIVER
CITY		STATE	ZIP CODE	<u>399</u>	<u>Jerry Y</u>		
				<u>566</u>	<u>Wes F</u>		
				<u>528</u>	<u>Mike</u>		

JOB TYPE 2-5400 HOLE SIZE 7 7/8 HOLE DEPTH 3500 CASING SIZE & WEIGHT 5 1/2 15.5#  
CASING DEPTH 3428 DRILL PIPE \_\_\_\_\_ TUBING 2 7/8 @ 2707 OTHER DV top # 20  
SLURRY WEIGHT 11.2-12.5 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 11.02'  
DISPLACEMENT 83-64 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting, ran float equipment #5 cent, 2, 4, 8, 11, 14, 17, 20 Baskets 3, 20, 21, 44, 47 DV top #20, rigged up on Murtin drilling Rig #16, hooked up to circulate for 1 1/2 hrs. Pump 5 bbl water mud flush 5 bbl water, mixed 125 sks OWC 5# Kol-seal pr sk, wash pump released plug, displaced with 20 bbl water 62 1/2 bbl mud 75# lift plug landed @ 1250#, dropped DV bomb, tool opened @ 1100#, circulated 30 min, mixed 30 sks RH 15 sks MH, mixed 75 sks 60/40 Poz 80 gel 4# Flo-seal washed pumps & lines, released plug, displaced with 62 1/2 bbl water, 75# lift pressure plug landed @ 500# cement did circulate APPROX 50 bbl top it. Thank you Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401P	1	PUMP CHARGE	2700.00	2700.00
5406	415	MILEAGE	5.00	2250.00
1126	125 sks	OWC	22.55	2818.75
1131	575 sks	60/40 Poz	15.10	8682.50
1118B	3956 #	Bentonite	.25	989.00
1110A	625 #	Kol-seal	.56	350.00
1107	142 #	Flo-seal	2.83	400.44
5407A	30.6	Ton mileage delivery	1.67	2299.95
1144G	500 gal	Mud flush	1.00	500.00
4115C	1	5 1/2 AFU float shoe (I)	413.00	413.00
41130	7	5 1/2 centralizer (I)	58.00	406.00
41104	5	5 1/2 Basket (w)	276.00	1380.00
4283	1	5 1/2 DV Tool / latchdown (I)	3850.00	3850.00
				25,014.64
		Lead 1090 disc		2501.77
				22,513.19
		SALES TAX		1122.08
		ESTIMATED TOTAL		23635.25

Ravin 3737 **6:30 AM**  
AUTHORIZATION David Jensen TITLE \_\_\_\_\_ DATE 8-27-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

252357



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 252217

Invoice Date: 08/22/2012 Terms: 10/10/30,n/30 Page 1

E & B NATURAL RESOURCES  
MANAGEMENT CORPORATION  
P.O. BOX 784  
HAYS KS 67601  
(661) 679-1700

MARSHALL E-32  
37043  
24-11-18  
08-20-2012  
KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	165.00	17.6500	2912.25
1102	CALCIUM CHLORIDE (50#)	465.00	.8900	413.85
1118B	PREMIUM GEL / BENTONITE	310.00	.2500	77.50

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-340.36
9995-130	CEMENT EQUIPMENT DISCOUNT	-180.34

Description	Hours	Unit Price	Total
460 TON MILEAGE DELIVERY	1.00	518.40	518.40
463 CEMENT PUMP (SURFACE)	1.00	1085.00	1085.00
463 EQUIPMENT MILEAGE (ONE WAY)	40.00	5.00	200.00

Amount 4,879.28  
Co. 36  
Acct. # \_\_\_\_\_  
Project # 120R3182  
Cost Center 570501  
Approval \_\_\_\_\_  
KR. 8-27-12

Amount Due 5421.42 if paid after 09/21/2012

Parts:	3403.60	Freight:	.00	Tax:	192.98	AR	4879.28
Labor:	.00	Misc:	.00	Total:	4879.28		
Sublt:	-520.70	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_ Date \_\_\_\_\_

BARTLESVILLE, OK  
918/338-0808

EL DORADO, KS  
316/322-7022

EUREKA, KS  
620/583-7664

PONCA CITY, OK  
580/762-2303

OAKLEY, KS  
785/672-2227

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

GILLETTE, WY  
307/686-4914





**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

TICKET NUMBER 37043

LOCATION Oakley, Ks

FOREMAN Walt Dunkel

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-20-12	2906	Marshall E-32	24	11 <sup>s</sup>	18 <sup>w</sup>	Ellis
CUSTOMER <u>E+B Natural Resources</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			463	Josh Gurdle		
CITY			460	Calin		Hardenbrook
STATE						
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 260' CASING SIZE & WEIGHT 8 5/8 -  
 CASING DEPTH 259' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 15'-20'  
 DISPLACEMENT 15 1/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 BPM

REMARKS: Safety Meeting, rig upon Martin #16, circ casing on bottom  
MIX 165 SKS COM, 3% ACC - 2% Gel, Displace 15 1/4 BBL H<sub>2</sub>O @ 150<sup>PPH</sup>, Shut in  
Cement Trial Circ

Approx 6 BBL to RT

Thank You  
Walt + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1,085 <sup>00</sup>	1,085 <sup>00</sup>
5406	40	MILEAGE	5 <sup>00</sup>	200 <sup>00</sup>
11045	165 SKS	Class A Cement	17 <sup>65</sup>	2,912 <sup>25</sup>
1102	465 #	Calcium Chloride	.89	413 <sup>85</sup>
1188	310 #	Gel	.25	77 <sup>50</sup>
5407A	7.76	Ton Mileage Delivery	167	518 <sup>40</sup>
				5,207 <sup>00</sup>
<u>Loss 10% Disc</u>				520 <sup>70</sup>
				4,686 <sup>30</sup>
SALES TAX				192.98
ESTIMATED TOTAL				4879.28

**Estimated**

Ravin 3737 AUTHORIZATION Ag Ahl TITLE T.P DATE \_\_\_\_\_

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252217