

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1600 Norris Rd
Bakersfield CA 93308

ATTN: Bob O'Dell

Marshall A-#36

31-11s-17w Ellis,KS

Start Date: 2011.11.28 @ 20:10:08

End Date: 2011.11.29 @ 02:54:38

Job Ticket #: 46231 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

RECEIVED
JUN 28 2012
KCC WICHITA

Printed: 2011.12.07 @ 09:26:17

E&B Natural Resources Managemant Corp

31-11s-17w Ellis,KS

Marshall A-#36

DST # 1

Toronto

2011.11.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

E&B Natural Resources Management Corp

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46231

DST#: 1

ATTN: Bob O'Dell

Test Start: 2011.11.28 @ 20:10:08

GENERAL INFORMATION:

Formation: **Toronto**

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

Time Tool Opened: 22:03:08

Time Test Ended: 02:54:38

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **3268.00 ft (KB) To 3296.00 ft (KB) (TVD)**

Total Depth: **3296.00 ft (KB) (TVD)**

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

Reference Elevations: **2105.00 ft (KB)**

2100.00 ft (CF)

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

Serial #: 8321 Inside

Press@RunDepth: **27.21 psig @ 3269.00 ft (KB)**

Start Date: **2011.11.28**

End Date:

2011.11.29

Start Time: **20:10:09**

End Time:

02:53:38

Capacity: **8000.00 psig**

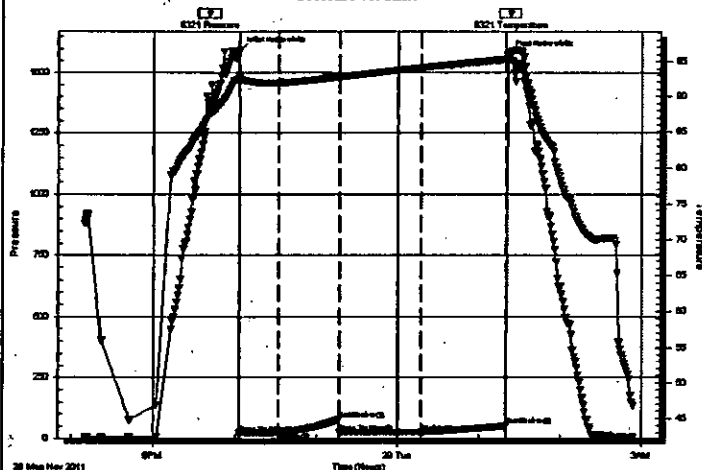
Last Calib.: **2011.11.29**

Time On Btm: **2011.11.28 @ 22:02:38**

Time Off Btm: **2011.11.29 @ 01:20:38**

TEST COMMENT: IFR-Weak blow built to 3/4 in
ISI-Dead no blow back
FFP-Dead no blow
FSI-Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.28	92.57	Initial Hydro-static
1	23.83	92.40	Open To Flow (1)
30	25.14	91.95	Shut-In(1)
74	78.31	92.79	End Shut-In(1)
75	26.11	92.79	Open To Flow (2)
135	27.21	94.11	Shut-In(2)
197	53.07	95.32	End Shut-In(2)
198	1574.99	95.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud with oil spots	0.01

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

E&B Natural Resources Management Corp

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46231

DST#: 1

ATTN: Bob O'Dell

Test Start: 2011.11.28 @ 20:10:08

Tool Information

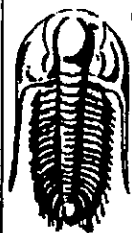
Drill Pipe:	Length: 3234.00 ft	Diameter: 3.80 inches	Volume: 45.36 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 48000.00 lb
		Total Volume: 45.51 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3268.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 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			3241.00	
Shut In Tool	5.00			3246.00	
Hydraulic tool	5.00			3251.00	
Jars	5.00			3256.00	
Safety Joint	3.00			3259.00	
Packer	4.00			3263.00	28.00 Bottom Of Top Packer
Packer	5.00			3268.00	
Stubb	1.00			3269.00	
Recorder	0.00	8321	Inside	3269.00	
Recorder	0.00	8737	Outside	3269.00	
Perforations	24.00			3293.00	
Bullnose	3.00			3296.00	28.00 Bottom Packers & Anchor

Total Tool Length: 56.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

E&B Natural Resources Management Corp

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46231

DST#: 1

ATTN: Bob O'Dell

Test Start: 2011.11.28 @ 20:10:08

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud with oil spots	0.015

Total Length: 3.00 ft

Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

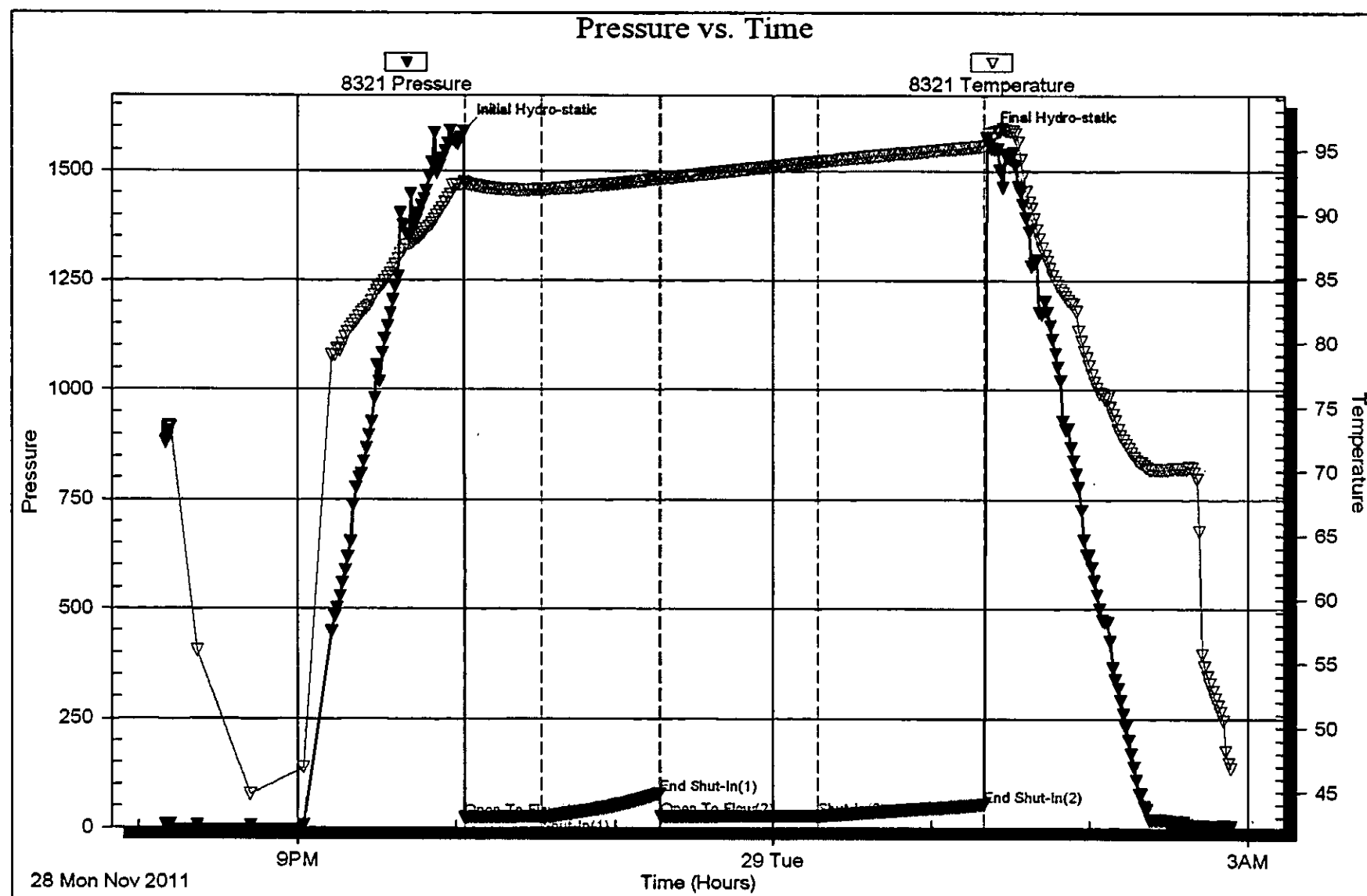
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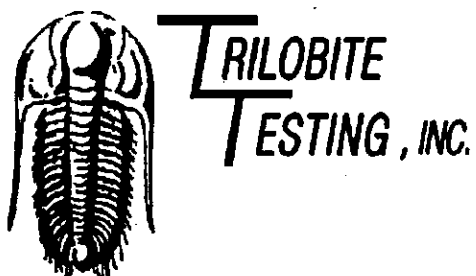
Inside

E&B Natural Resources Management Corp

Marshall A-#36

DST Test Number: 1





DRILL STEM TEST REPORT

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

1600 Norris Rd
Bakersfield CA 93308

ATTN: Bob O'Dell

Marshall A-#36

31-11s-17w Ellis,KS

Start Date: 2011.11.29 @ 13:50:38

End Date: 2011.11.29 @ 20:30:38

Job Ticket #: 46232 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.07 @ 09:26:37

E&B Natural Resources Managemant Corp

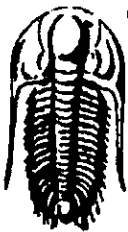
31-11s-17w Ellis,KS

Marshall A-#36

DST # 2

Lansing-E

2011.11.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

E&B Natural Resources Management Corp

1600 Norris Rd
Bakersfield CA 93308

ATTN: Bob O'Dell

31-11s-17w Ellis, KS

Marshall A-#36

Job Ticket: 46232

DST#: 2

Test Start: 2011.11.29 @ 13:50:38

GENERAL INFORMATION:

Formation: Lansing-E

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:25:08

Time Test Ended: 20:30:38

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3373.00 ft (KB) To 3392.00 ft (KB) (TVD)

Total Depth: 3392.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2105.00 ft (KB)

2100.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 8321

Inside

Press@RunDepth: 44.00 psig @ 3374.00 ft (KB)

Start Date: 2011.11.29

End Date:

2011.11.29

Capacity: 8000.00 psig

Last Calib.: 2011.11.29

Start Time: 13:50:39

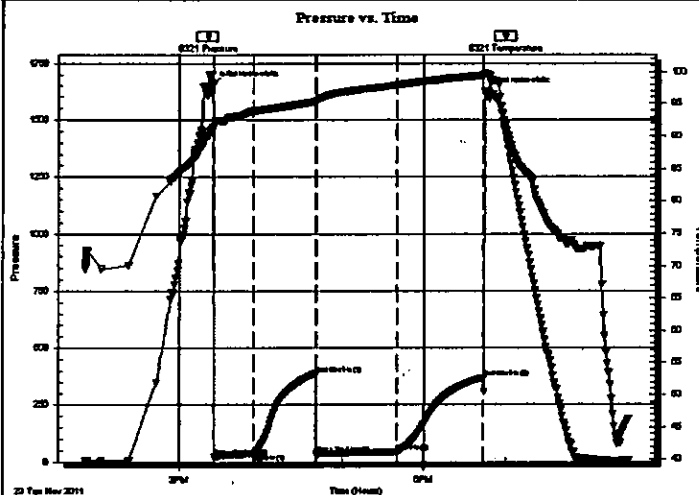
End Time:

20:30:38

Time On Btm 2011.11.29 @ 15:24:38

Time Off Btm 2011.11.29 @ 18:45:08

TEST COMMENT: IFP=Fair blow built to 6 in
IS=Weak surface blow died out in 8 min
FFP=Good blow BOB in 36 min
FS=Weak surface blow built to 1/4 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.43	91.42	Initial Hydro-static
1	23.65	91.42	Open To Flow (1)
30	36.45	93.92	Shut-In(1)
76	389.05	95.30	End Shut-In(1)
76	36.50	95.37	Open To Flow (2)
135	44.00	97.96	Shut-In(2)
199	371.19	99.41	End Shut-In(2)
201	1624.59	99.82	Final Hydro-static

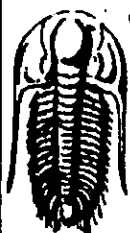
Recovery

Length (ft)	Description	Volume (bbl)
43.00	OCGM 5% G20% O75% M	0.33
7.00	Gassy Oil 10% G90% O	0.10
0.00	168-GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

E&B Natural Resources Management Corp

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46232

DST#: 2

ATTN: Bob O'Dell

Test Start: 2011.11.29 @ 13:50:38

Tool Information

Drill Pipe:	Length: 3329.00 ft	Diameter: 3.80 inches	Volume: 46.70 bbl	Tool Weight: 2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 48000.00 lb
		Total Volume: 46.85 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3373.00 ft			Final 45000.00 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
Change Over Sub	1.00			3346.00	
Shut In Tool	5.00			3351.00	
Hydraulic tool	5.00			3356.00	
Jars	5.00			3361.00	
Safety Joint	3.00			3364.00	
Packer	4.00			3368.00	28.00 Bottom Of Top Packer
Packer	5.00			3373.00	
Stubb	1.00			3374.00	
Recorder	0.00	8321	Inside	3374.00	
Recorder	0.00	8737	Outside	3374.00	
Perforations	15.00			3389.00	
Bullnose	3.00			3392.00	19.00 Bottom Packers & Anchor

Total Tool Length: 47.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

E&B Natural Resources Management Corp

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield, CA 93308

Marshall A-#36

Job Ticket: 46232

DST#: 2

ATTN: Bob O'Dell

Test Start: 2011.11.29 @ 13:50:38

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
43.00	OCGM 5%G20%O75%M	0.330
7.00	Gassy Oil 10%G90%O	0.098
0.00	168-GIP	0.000

Total Length: 50.00 ft

Total Volume: 0.428 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

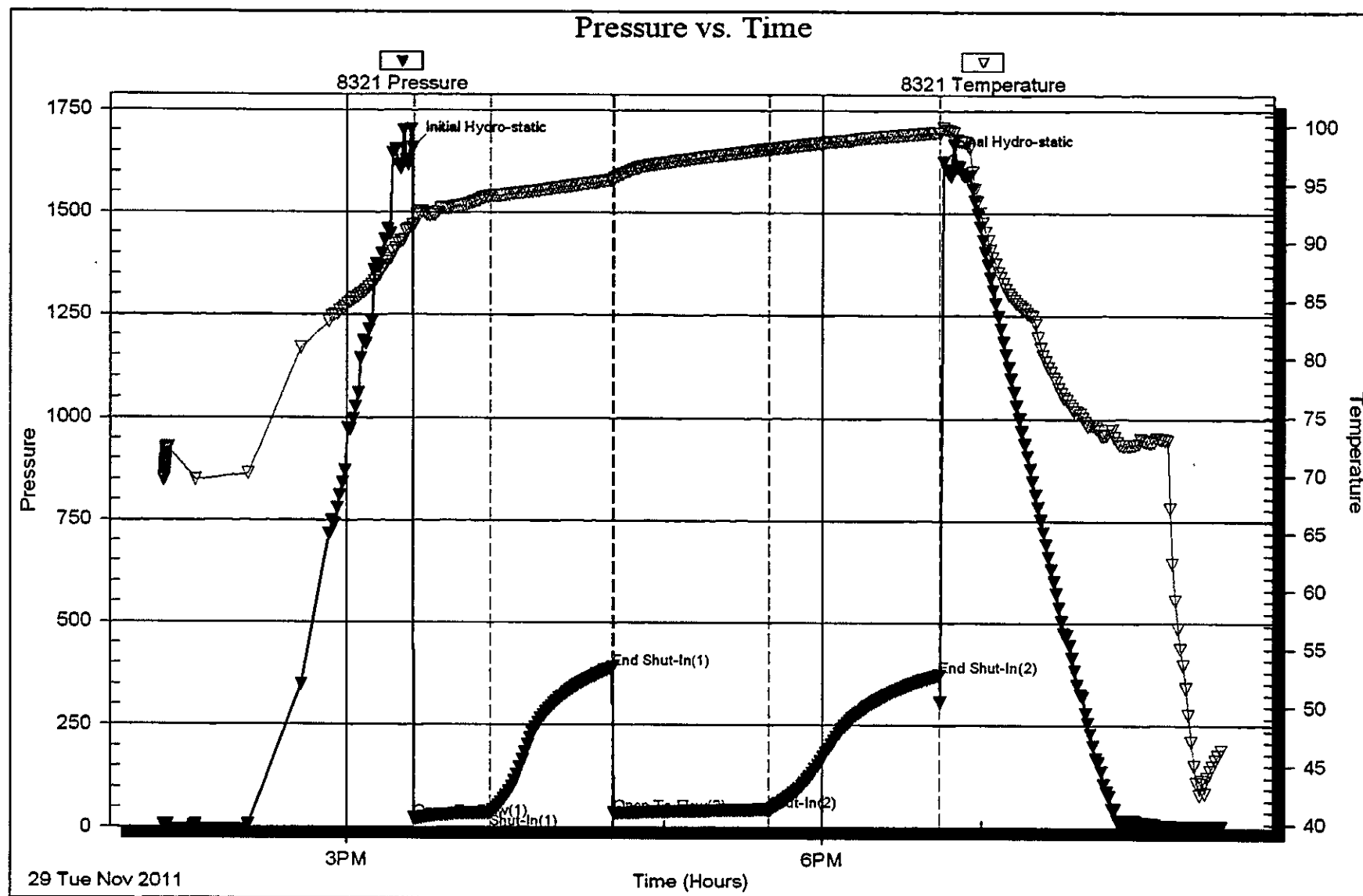
Serial #: 8321

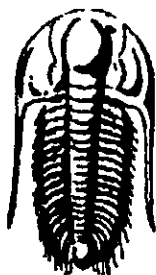
Inside

E&B Natural Resources Management Corp

Marshall A-#36

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1600 Norris Rd
Bakersfield CA 93308

ATTN: Bob O'Dell

Marshall A-#36

31-11s-17w Ellis,KS

Start Date: 2011.11.30 @ 11:26:00

End Date: 2011.11.30 @ 18:25:00

Job Ticket #: 46233 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.07 @ 09:26:51

E&B Natural Resources Managemant Corp

31-11s-17w Ellis,KS

Marshall A-#36

DST # 3

KC "H-K"

2011.11.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

E&B Natural Resources Management Corp

31-11s-17w Eills,KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46233

DST#: 3

ATTN: Bob O'Dell

Test Start: 2011.11.30 @ 11:26:00

GENERAL INFORMATION:

Formation: **KC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:30

Time Test Ended: 18:25:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 44

Interval: **3433.00 ft (KB) To 3530.00 ft (KB) (TVD)**

Total Depth: 3530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2105.00 ft (KB)

2100.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8737 Outside

Press@RunDepth: 90.70 psig @ 3503.00 ft (KB)

Start Date: 2011.11.30

End Date:

2011.11.30

Start Time: 11:26:01

End Time:

18:25:00

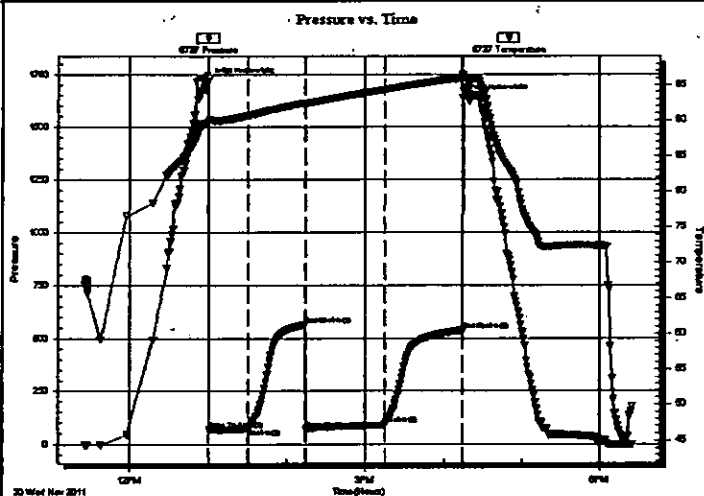
Capacity: 8000.00 psig

Last Calib.: 2011.11.30

Time On Btm: 2011.11.30 @ 13:00:00

Time Off Btm: 2011.11.30 @ 16:15:00

TEST COMMENT: 30 - IF- B.O.B. in 13 Mn.
45 - IS- No blow back
60 - FF- B.O.B. in 3 Mn.
60 - FS- Surface blow, died in 17 Mn.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.01	89.84	Initial Hydro-static
1	67.14	89.76	Open To Flow (1)
30	72.93	90.62	Shut-In(1)
74	564.46	92.40	End Shut-In(1)
75	67.83	92.33	Open To Flow (2)
135	90.70	94.31	Shut-In(2)
195	539.27	95.99	End Shut-In(2)
195	1638.50	96.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	5%M, 20%O, 75%G	0.59
45.00	20%O, 20%G, 60%M	0.63
0.00	465' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

E&B Natural Resources Management Corp

31-11s-17w Ellis,KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46233

DST#: 3

ATTN: Bob O'Dell

Test Start: 2011.11.30 @ 11:26:00

Tool Information

Drill Pipe:	Length: 3394.00 ft	Diameter: 3.80 inches	Volume: 47.61 bbl	Tool Weight: 2200.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 47.76 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3433.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	97.00 ft			
Tool Length:	125.00 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			3406.00	
Shut In Tool	5.00			3411.00	
Hydraulic tool	5.00			3416.00	
Jars	5.00			3421.00	
Safety Joint	3.00			3424.00	
Packer	4.00			3428.00	28.00 Bottom Of Top Packer
Packer	5.00			3433.00	
Stubb	1.00			3434.00	
Perforations	5.00			3439.00	
Change Over Sub	1.00			3440.00	
Drill Pipe	62.00			3502.00	
Change Over Sub	1.00			3503.00	
Recorder	0.00	8321	Inside	3503.00	
Recorder	0.00	8737	Outside	3503.00	
Perforations	24.00			3527.00	
Bullnose	3.00			3530.00	97.00 Bottom Packers & Anchor
Total Tool Length:	125.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

E&B Natural Resources Management Corp.

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46233

DST#: 3

ATTN: Bob O'Dell

Test Start: 2011.11.30 @ 11:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 18.00 sec/qt

Water Loss: 6.79 in³

Resistivity: ohm.m

Salinity: 5700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	5%M, 20%O, 75%G	0.587
45.00	20%O, 20%G, 60%M	0.631
0.00	465' of G.I.P.	0.000

Total Length: 107.00 ft

Total Volume: 1.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

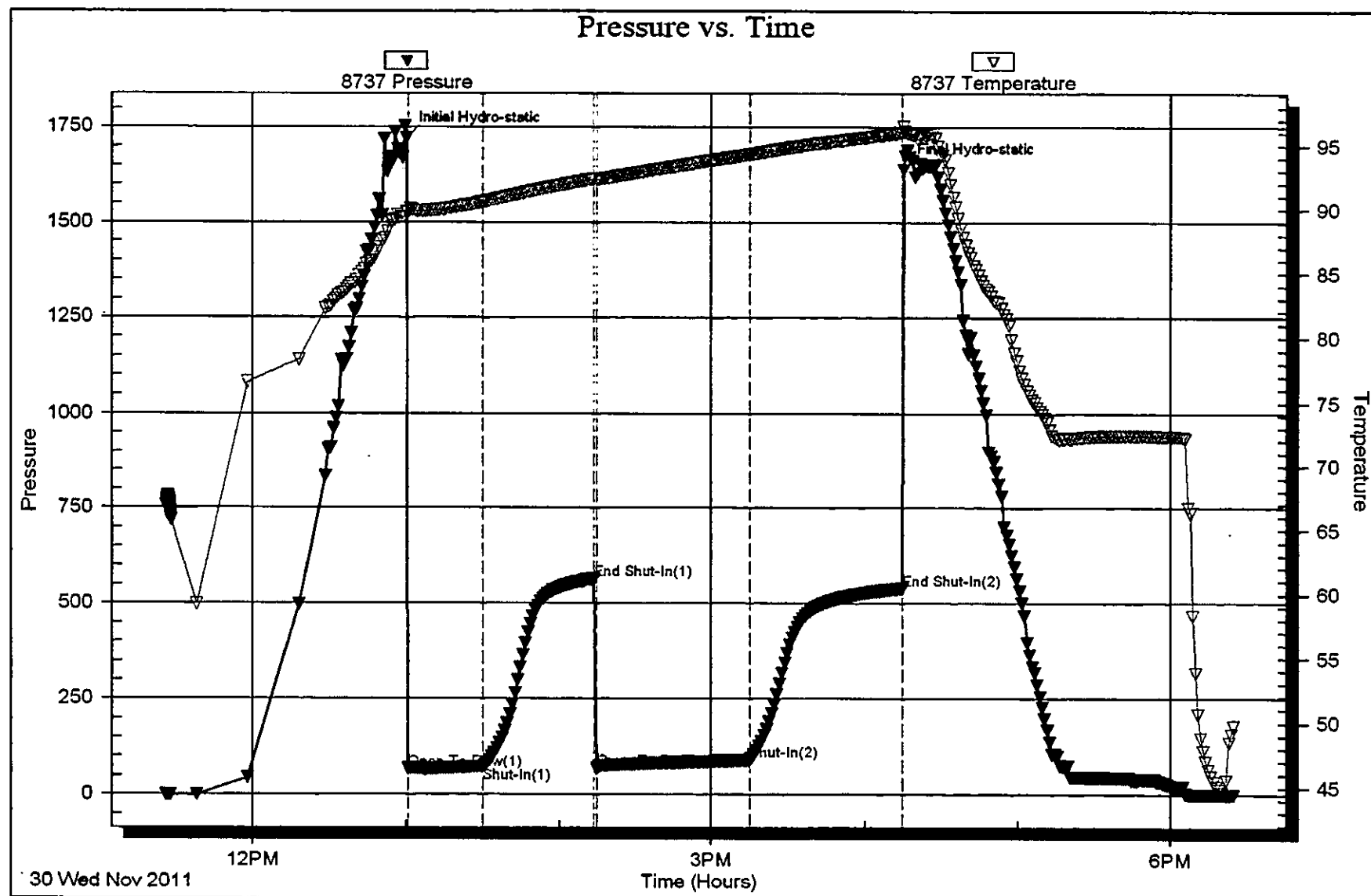
Recovery Comments:

Serial #: 8737

Outside E&B Natural Resources Management Corp

Marshall A-#36

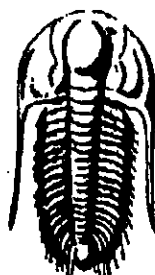
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 46233

Printed: 2011.12.07 @ 09:26:53



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

1600 Norris Rd
Bakersfield CA 93308

ATTN: Bob O'Dell

Marshall A-#36

31-11s-17w Ellis,KS

Start Date: 2011.12.01 @ 04:18:00

End Date: 2011.12.01 @ 11:42:30

Job Ticket #: 46326 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.07 @ 09:27:08

E&B Natural Resources Managemant Corp

31-11s-17w Ellis,KS

Marshall A-#36

DST # 4

Artbuckle

2011.12.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

E&B Natural Resources Management Corp

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46326

DST#: 4

ATTN: Bob O'Dell

Test Start: 2011.12.01 @ 04:18:00

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 06:21:00

Time Test Ended: 11:42:30

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Cody Bloedorn**

Unit No: **44**

Interval: **3568.00 ft (KB) To 3605.00 ft (KB) (TVD)**

Total Depth: **3605.00 ft (KB) (TVD)**

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

Reference Elevations: **2105.00 ft (KB)**

2100.00 ft (CF)

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

Serial #: **8737** Outside

Press@RunDepth: **68.44 psig @ 3569.00 ft (KB)**

Start Date: **2011.12.01**

End Date:

2011.12.01

Start Time: **04:18:01**

End Time:

11:42:30

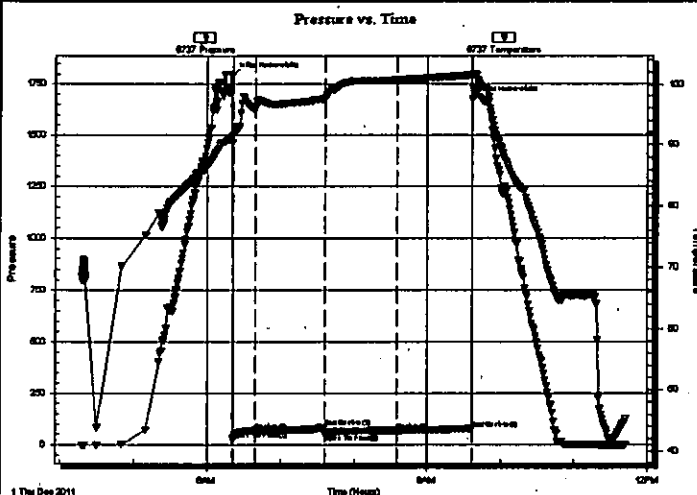
Capacity: **8000.00 psig**

Last Calib.: **2011.12.01**

Time On Btm: **2011.12.01 @ 06:20:30**

Time Off Btm: **2011.12.01 @ 09:37:00**

TEST COMMENT: 30 - IF- 7" blow
45 - IS- No blow back
60 - FF- 5" blow in 18 Mn. died to 1 1/4"
60 - FS- No blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.88	91.31	Initial Hydro-static
1	24.58	90.38	Open To Flow (1)
19	67.97	95.85	Shut-In(1)
75	84.09	97.51	End Shut-In(1)
76	52.03	97.64	Open To Flow (2)
135	68.44	100.67	Shut-In(2)
196	77.66	101.49	End Shut-In(2)
197	1674.88	101.64	Final Hydro-static

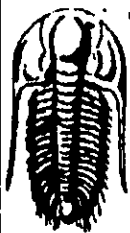
Recovery

Length (ft)	Description	Volume (bbl)
62.00	GVSOCCMM, 5%O, 5%G, 10%W, 80%M	0.60
52.00	GSOCCM, 10%O, 10%G, 80%M	0.73
10.00	GO, 10%G, 90%O	0.14

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

E&B Natural Resources Management Corp

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46326

DST#: 4

ATTN: Bob O'Dell

Test Start: 2011.12.01 @ 04:18:00

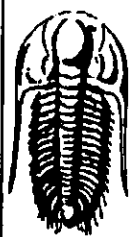
Tool Information

Drill Pipe:	Length: 3520.00 ft	Diameter: 3.80 inches	Volume: 49.38 bbl	Tool Weight: 2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 49.53 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3568.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	65.00 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			3541.00	
Shut In Tool	5.00			3546.00	
Hydraulic tool	5.00			3551.00	
Jars	5.00			3556.00	
Safety Joint	3.00			3559.00	
Packer	4.00			3563.00	28.00 Bottom Of Top Packer
Packer	5.00			3568.00	
Stubb	1.00			3569.00	
Recorder	0.00	8321	Inside	3569.00	
Recorder	0.00	8737	Outside	3569.00	
Perforations	33.00			3602.00	
Bullnose	3.00			3605.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

E&B Natural Resources Management Corp

31-11s-17w Ellis,KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46326

DST#: 4

ATTN: Bob O'Dell

Test Start: 2011.12.01 @ 04:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
62.00	GVSOCMM, 5%O, 5%G, 10%W, 80%M	0.596
52.00	GSOCM, 10%O, 10%G, 80%M	0.729
10.00	GO, 10%G, 90%O	0.140

Total Length: 124.00 ft

Total Volume: 1.465 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

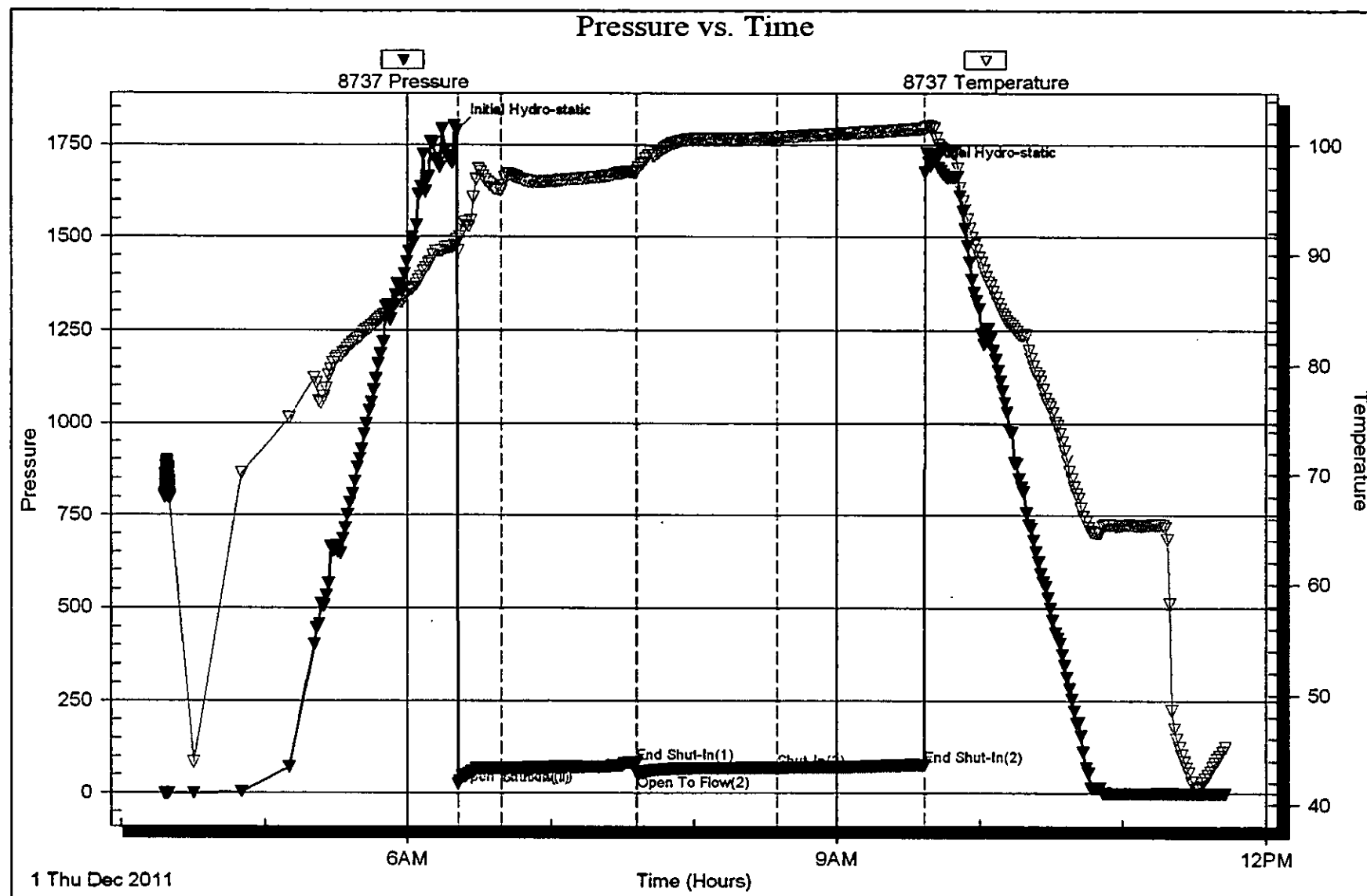
Recovery Comments: Gravity: 28 @ 50 Degrees

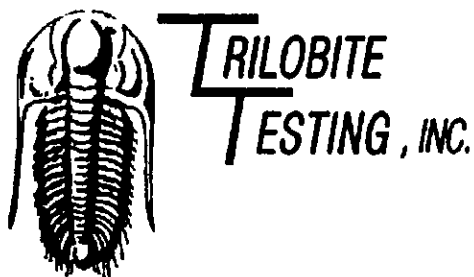
Serial #: 8737

Outside E&B Natural Resources Management Corp

Marshall A-#36

DST Test Number: 4





DRILL STEM TEST REPORT

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

1600 Norris Rd
Bakersfield CA 93308

ATTN: Bob O'Dell

Marshall A-#36

31-11s-17w Ellis,KS

Start Date: 2011.12.01 @ 20:34:00

End Date: 2011.12.02 @ 03:13:00

Job Ticket #: 46327 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.07 @ 09:27:23

E&B Natural Resources Managemant Corp

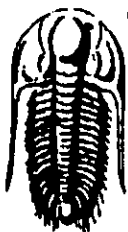
31-11s-17w Ellis,KS

Marshall A-#36

DST # 5

Arbuckle

2011.12.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

E&B Natural Resources Management Corp

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46327

DST#: 5

ATTN: Bob O'Dell

Test Start: 2011.12.01 @ 20:34:00

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 22:10:30

Time Test Ended: 03:13:00

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Cody Bloedorn**

Unit No: **44**

Interval: **3630.00 ft (KB) To 3636.00 ft (KB) (TVD)**

Total Depth: **3636.00 ft (KB) (TVD)**

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

Reference Elevations: **2105.00 ft (KB)**

2100.00 ft (CF)

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

Serial #: **8737**

Outside

Press@RunDepth: **38.74 psig @ 3631.00 ft (KB)**

Start Date: **2011.12.01**

End Date:

2011.12.02

Capacity: **8000.00 psig**

Last Calib.: **2011.12.02**

Start Time: **20:34:01**

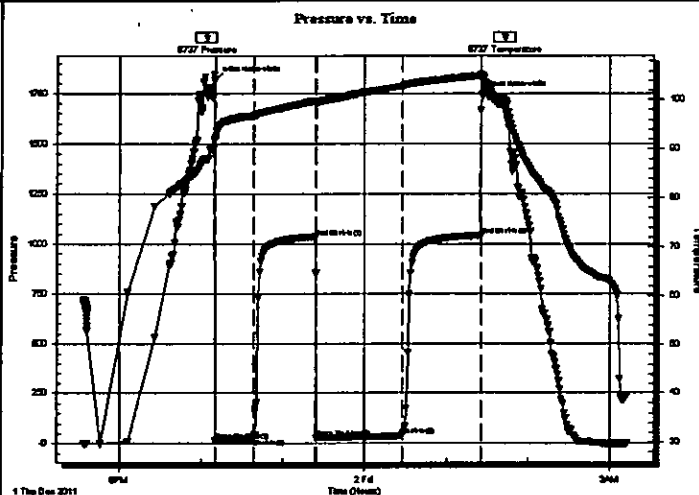
End Time:

03:13:00

Time On Btm: **2011.12.01 @ 22:10:00**

Time Off Btm: **2011.12.02 @ 01:26:00**

TEST COMMENT: 30 - IF- 2 1/2" blow
45 - IS- Weak surface blow, died in 20 Min.
60 - FF- 1 1/4" blow
60 - FS- Weak surface blow, died in 43 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.23	91.74	Initial Hydro-static
1	16.33	92.40	Open To Flow (1)
29	27.54	96.77	Shut-In(1)
74	1035.81	99.68	End Shut-In(1)
75	29.40	99.50	Open To Flow (2)
138	38.74	102.76	Shut-In(2)
195	1043.55	104.96	End Shut-In(2)
196	1742.62	104.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	SOOMV, 20%M, 10%O, 70%W	0.15

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

E&B Natural Resources Management Corp

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46327

DST#: 5

ATTN: Bob O'Dell

Test Start: 2011.12.01 @ 20:34:00

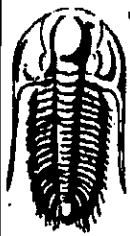
Tool Information

Drill Pipe:	Length: 3582.00 ft	Diameter: 3.80 inches	Volume: 50.25 bbl.	Tool Weight:	2200.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	54000.00 lb
			Total Volume: 50.40 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3630.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	34.00 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			3603.00	
Shut In Tool	5.00			3608.00	
Hydraulic tool	5.00			3613.00	
Jars	5.00			3618.00	
Safety Joint	3.00			3621.00	
Packer	4.00			3625.00	28.00 Bottom Of Top Packer
Packer	5.00			3630.00	
Stubb	1.00			3631.00	
Recorder	0.00	8321	Inside	3631.00	
Recorder	0.00	8737	Outside	3631.00	
Perforations	2.00			3633.00	
Bullnose	3.00			3636.00	6.00 Bottom Packers & Anchor

Total Tool Length: 34.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

E&B Natural Resources Management Corp

31-11s-17w Ellis, KS

1600 Norris Rd
Bakersfield CA 93308

Marshall A-#36

Job Ticket: 46327

DST#: 5

ATTN: Bob O'Dell

Test Start: 2011.12.01 @ 20:34:00

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:

65000 ppm

Viscosity: 54.00 sec/qt.

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	SOCMW, 20%M, 10%O, 70%W	0.152

Total Length: 31.00 ft

Total Volume: 0.152 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

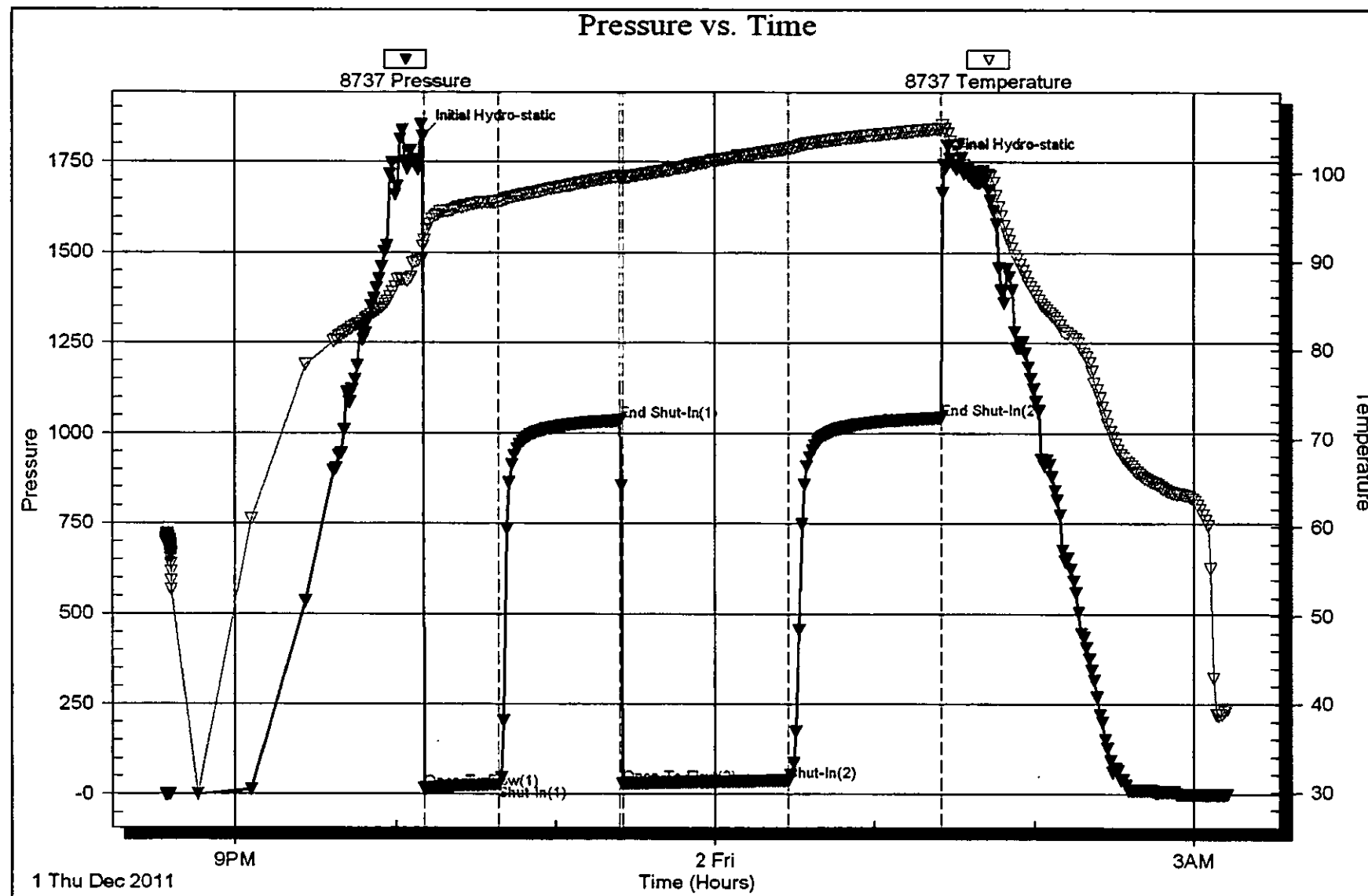
Recovery Comments:

Serial #: 8737

Outside E&B Natural Resources Management Corp

Marshall A-#36

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 46327

Printed: 2011.12.07 @ 09:27:24