

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34405
Name: E & B Natural Resources Management
Address 1: 1600 Norris Road
Address 2: _____
City: Bakersfield State: CA Zip: 93308 + _____
Contact Person: Keith Pickett
Phone: (661) 301-1500
CONTRACTOR: License # 30606
Name: Murfin Drilling Company, Inc.
Wellsite Geologist: Bob O'Dell
Purchaser: Plains Exploration

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 #: _____
11-23-2011 12-2-2011 12-9-2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 051-26230 -0000
Spot Description: _____
SW NW NW SW Sec. 31 Twp. 11 S. R. 17 East West
2,066 Feet from North / South Line of Section
89 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ellis
Lease Name: Marshall "A" Well #: 36
Field Name: Bemis-Shutts
Producing Formation: Arbuckle
Elevation: Ground: 2,100 Kelly Bushing: 2,105
Total Depth: 3,700 Plug Back Total Depth: 3,699
Amount of Surface Pipe Set and Cemented at: 258 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1,681.35 Feet
If Alternate II completion, cement circulated from: 3,699
feet depth to: Surface w/ 650 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 42,000 ppm Fluid volume: 150 bbls
Dewatering method used: Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Keith Pickett

Title: Engineer Date: 6-4-2012

KCC Office Use ONLY

Letter of Confidentiality Received **RECEIVED**
Date: _____
 Confidential Release Date: _____
 Wireline Log Received **JUN 07 2012**
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: DG Date: 7/3/12
KCC WICHITA

Operator Name: E & B Natural Resources Management Lease Name: Marshall "A" Well #: 36
 Sec. 31 Twp. 11 S. R. 17 East West County: Ellis

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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Computer Processed Interpretation, Microresistivity Log, Dual Compensated Porosity Log, Dual Induction Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1329</td> <td>+776</td> </tr> <tr> <td>Topeka</td> <td>3042</td> <td>-937</td> </tr> <tr> <td>Heebner</td> <td>3271</td> <td>-1166</td> </tr> <tr> <td>Lansing</td> <td>3315</td> <td>-1210</td> </tr> <tr> <td>BKC</td> <td>3549</td> <td>-1445</td> </tr> <tr> <td>Arbuckle</td> <td>3594</td> <td>-1489</td> </tr> </table>	Name	Top	Datum	Anhydrite	1329	+776	Topeka	3042	-937	Heebner	3271	-1166	Lansing	3315	-1210	BKC	3549	-1445	Arbuckle	3594	-1489
Name	Top	Datum																				
Anhydrite	1329	+776																				
Topeka	3042	-937																				
Heebner	3271	-1166																				
Lansing	3315	-1210																				
BKC	3549	-1445																				
Arbuckle	3594	-1489																				

CASING RECORD <input checked="" 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
Surface	12-1/4	8.625	24 Lbs.	260	A	165	A 2% Sodium Chloride

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3673' - 3676'		

TUBING RECORD: Size: <u>3-1/2</u> Set At: <u>3675</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR: <u>12-28-2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>19</u>	Gas Mcf <u>0</u> Water Bbls. <u>929</u> Gas-Oil Ratio <u>0</u> Gravity <u>31</u>

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 checked="" 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: <u>3673' - 3676'</u> RECEIVED
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

JUN 07 2012

KCC WICHITA

TO: E & B Natural Resource Management

FROM: David L. Jensen

RE: Marshall A-36 pipe set

Calculated the threads off tally. Received the caliper log from Log-Tech and determined the locations for the DV tool, centralizers and baskets. Ordered cement from Allied Cementing. After open hole logs were completed, ran in hole and circulated for 1 hour to condition hole. Pulled and laid down drill pipe and drill collars. MIRU Murray Casing Crews. Started running 5 1/2", 15.5#, J-55, R-3, 8 rd, LT&C casing, purchased from Midwestern Pipe Work, at 11:30 PM, December 2, 2011. Finished at 2:00 AM, December 3, 2011. Ran a total of 89 joints. RDMO Murray Casing. MIRU Allied Cementing and cemented the casing as follows: Dropped the float shoe ball and circulated the hole for 1 hour. Mixed and pumped 500 gallons of WFR-2 mud flush and 230 sacks of ASC cement(10% salt, 2 % gel and ¼# flo-seal per sack). Cleared the lines and released the slim hole latch down plug. Displaced with 87 ¾ barrels of fresh water. Plug landed with 1700 PSI, held. Dropped the dart to open the DV tool. DV tool opened with 1200 PSI. Circulated for 1 ½ hours. Mixed and pumped the top stage containing 420 sacks of Lite-wt. cement. Released the wiper plug and displaced with 49.25 barrels of fresh water. **Cement did circulate to the pit(approximately 75 sacks).** RDMO Allied cementing. Casing ran as follows:

.86'	Weatherford auto-fill float shoe	Cond.: New
14.08'	1 – 5 ½" shoe joint	Cond.: New
0.00'	Insert	Cond.: New
421.28'	10 – 5 ½" casing	Cond.: New
21.08'	1 – 5 ½" marker joint	Cond.: New
1,221.89'	29 – 5 ½" casing	Cond.: New
2.16'	1 – Weatherford 2 stage DV tool	Cond.: New
1,980.61'	47 – 5 ½" casing	Cond.: New
<u>32.04'</u>	1 – 5 ½" casing(cut to ground level)	Cond.: New
3,694.00'	Total equipment	
<u>5.00'</u>	Zero measurement	
3,699.00'	Depth landed	

RECEIVED
JUN 28 2012
KCC WICHITA

Centralizers @: 2611', 2737', 2863', 3032', 3200', 3348', 3474', 3601' and 3685'

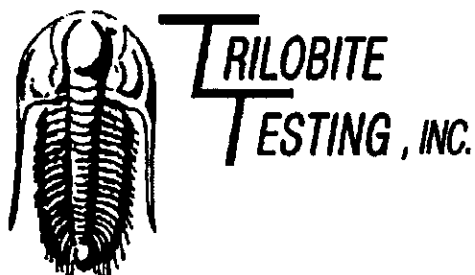
Baskets @: 630', 1641', 2063', 2105', 2189' and 3643'

DV tool @ 2061'-2063'

Marker joint @ 3243'-3264'

PBTD: 3685'

RECEIVED
JUN 28 2012
KCC WICHITA



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 Management 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)**

Reference Elevations: 2105.00 ft (KB)

Total Depth: 3296.00 ft (KB) (TVD)

2100.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **8321** Inside

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

Capacity: 8000.00 psig

Start Date: 2011.11.28

End Date: 2011.11.29

Last Calib.: 2011.11.29

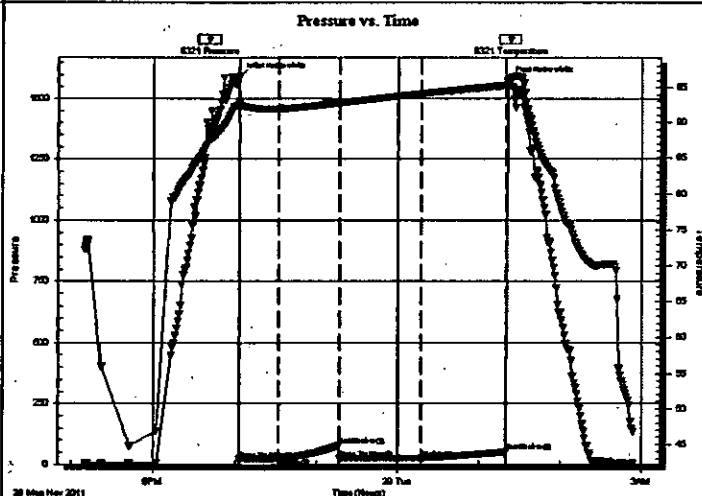
Start Time: 20:10:09

End Time: 02:53:38

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 SUMMARY

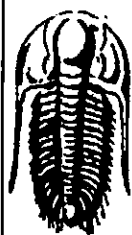
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.28	92.57	Initial Hydro-static
1	23.83	92.40	Open To Flow (1)
30	25.14	91.95	Shut-In(1)
74	78.31	92.79	End Shut-In(1)
75	26.11	92.79	Open To Flow (2)
135	27.21	94.11	Shut-In(2)
197	53.07	95.32	End Shut-In(2)
198	1574.99	95.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud w ith oil spots	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 Management Corp

31-11s-17w Ells,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

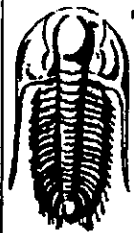
Drill Pipe:	Length: 3234.00 ft	Diameter: 3.80 inches	Volume: 45.36 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 45.51 bbl</u>	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 in ³	Gas Cushion Type:		
Resistivity: ohmm	Gas Cushion Pressure: psig		
Salinity: 3900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

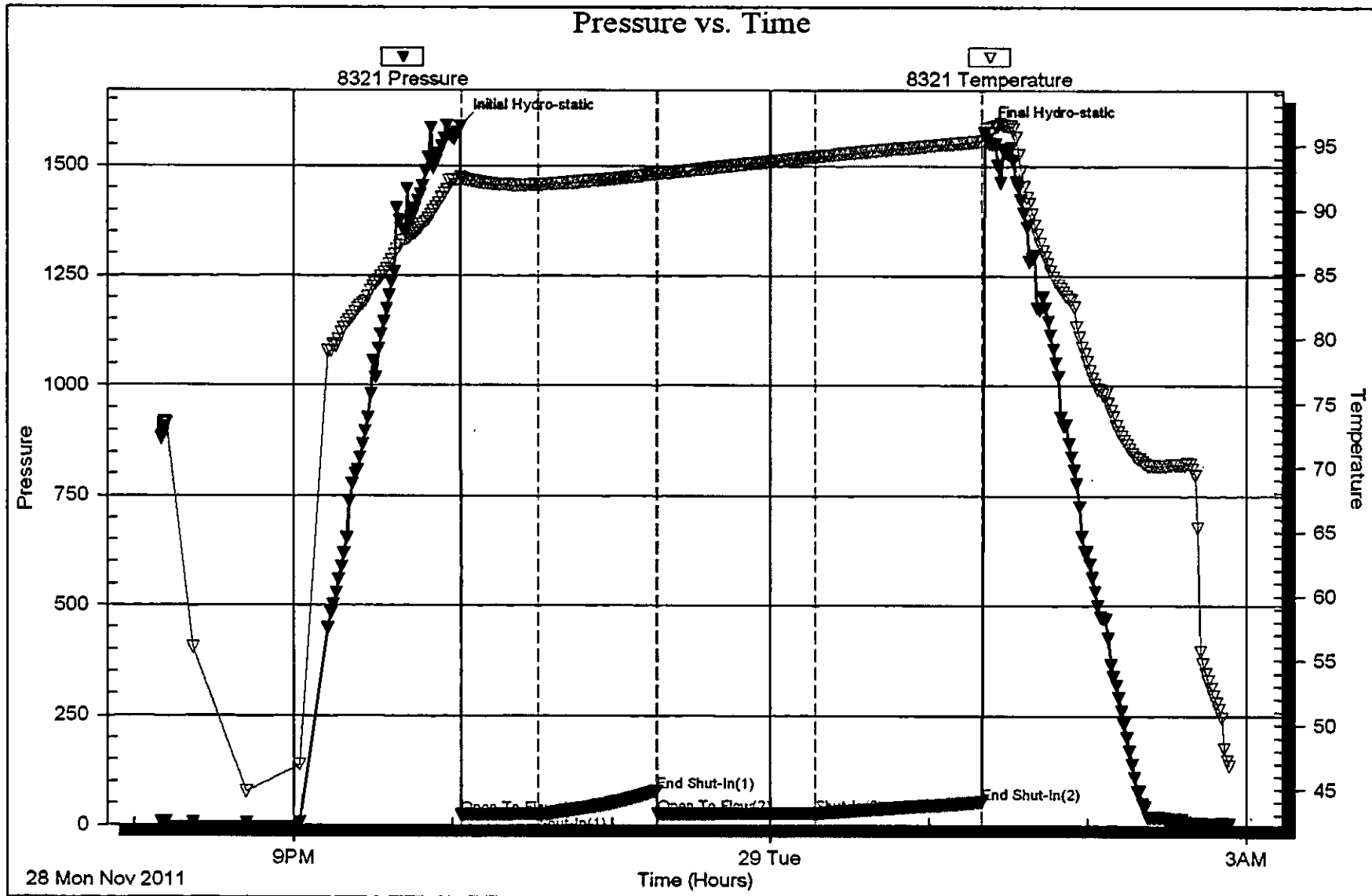
Length ft	Description	Volume bbl
3.00	Mud with oil spots	0.015

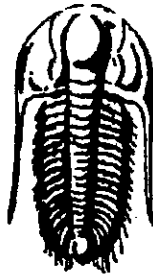
Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:





**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: 2011.11.29 @ 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 Management Corp

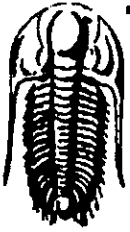
31-11s-17w Ellis,KS

Marshall A-#36

DST # 2

Lansing-E

2011.11.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

E&B Natural Resources Management Corp

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

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

Start Time: 13:50:39

End Time: 20:30:38

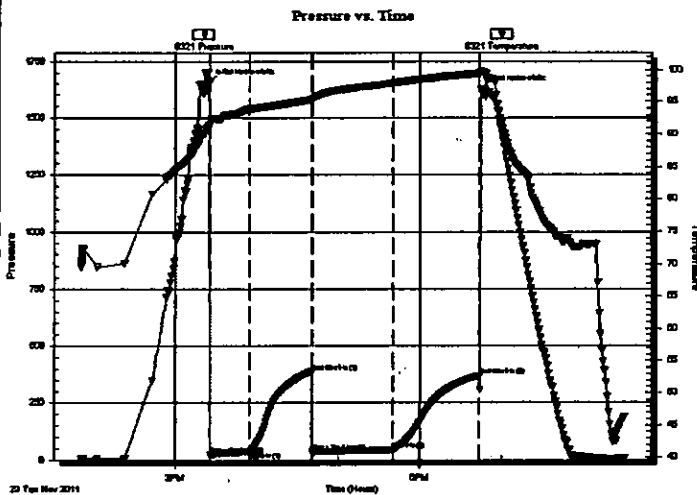
Capacity: 8000.00 psig

Last Calib.: 2011.11.29

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

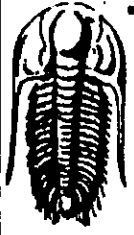
Recovery

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)



**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

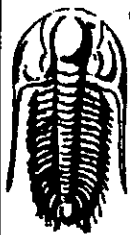
Tool Information

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



**TRILOBITE
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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:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

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

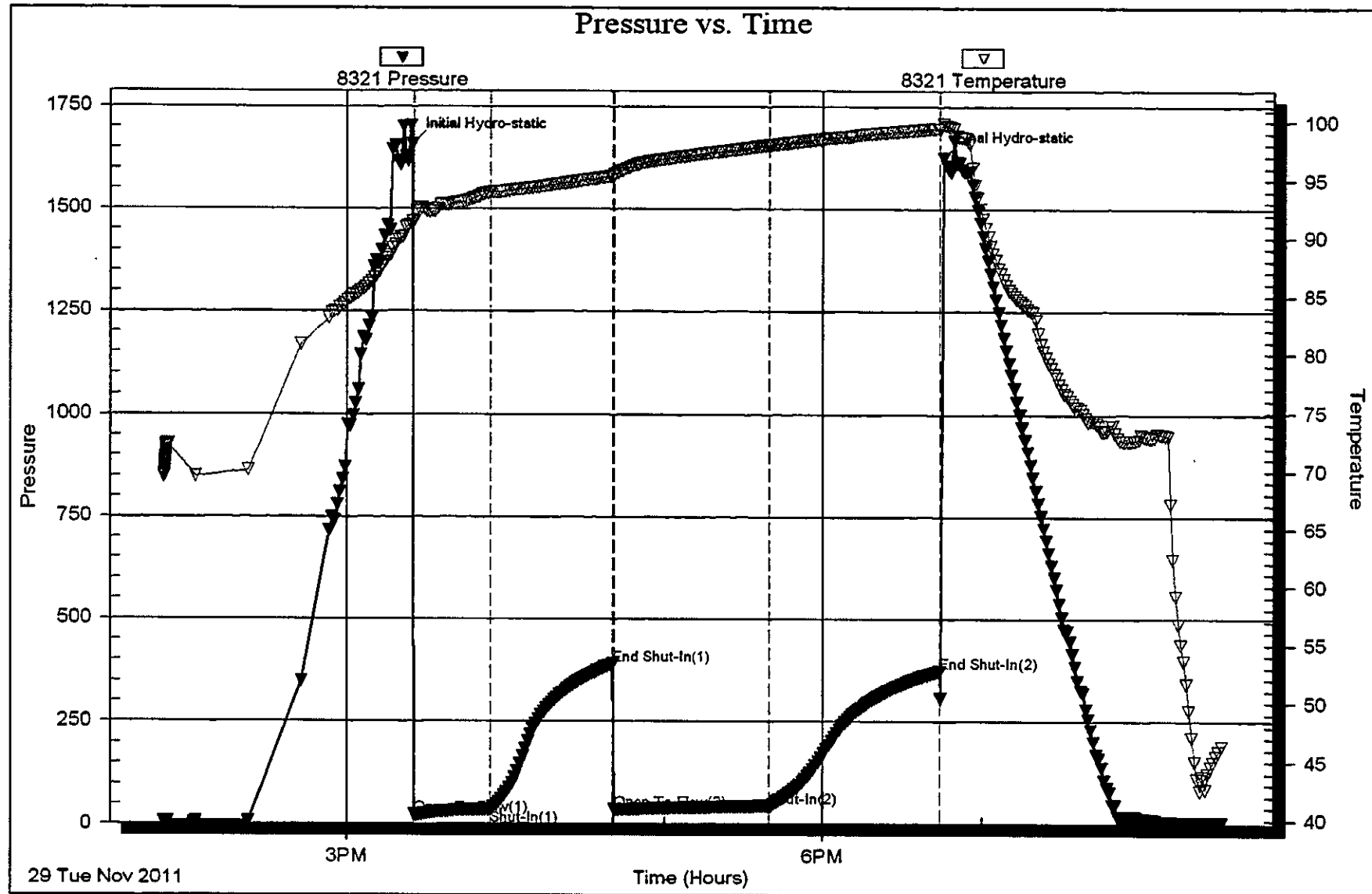
Num Gas Bombs: 0

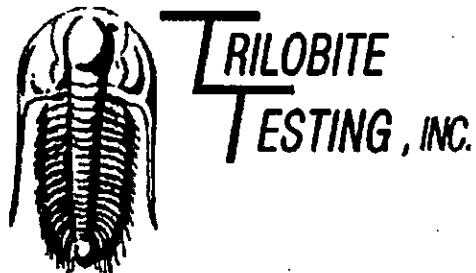
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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 Management 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

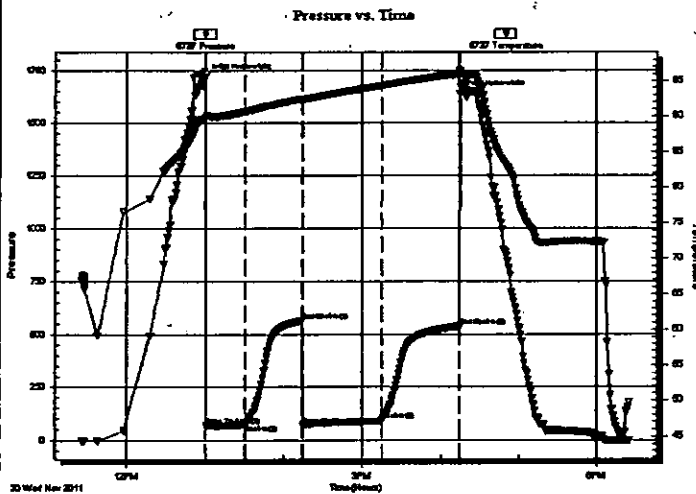
Reference Elevations: 2105.00 ft (KB)
 2100.00 ft (CF)
 KB to GR/CF: 5.00 ft

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 (Mn.)	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

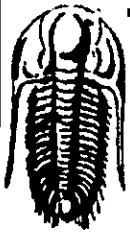
Recovery

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

Gas Rates

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

* Recovery from multiple tests



**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.
1600 Norris Rd
Bakersfield CA 93308
ATTN: Bob O'Dell

31-11s-17w Ellis,KS
Marshall A-#36
Job Ticket: 46233 **DST#: 3**
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: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

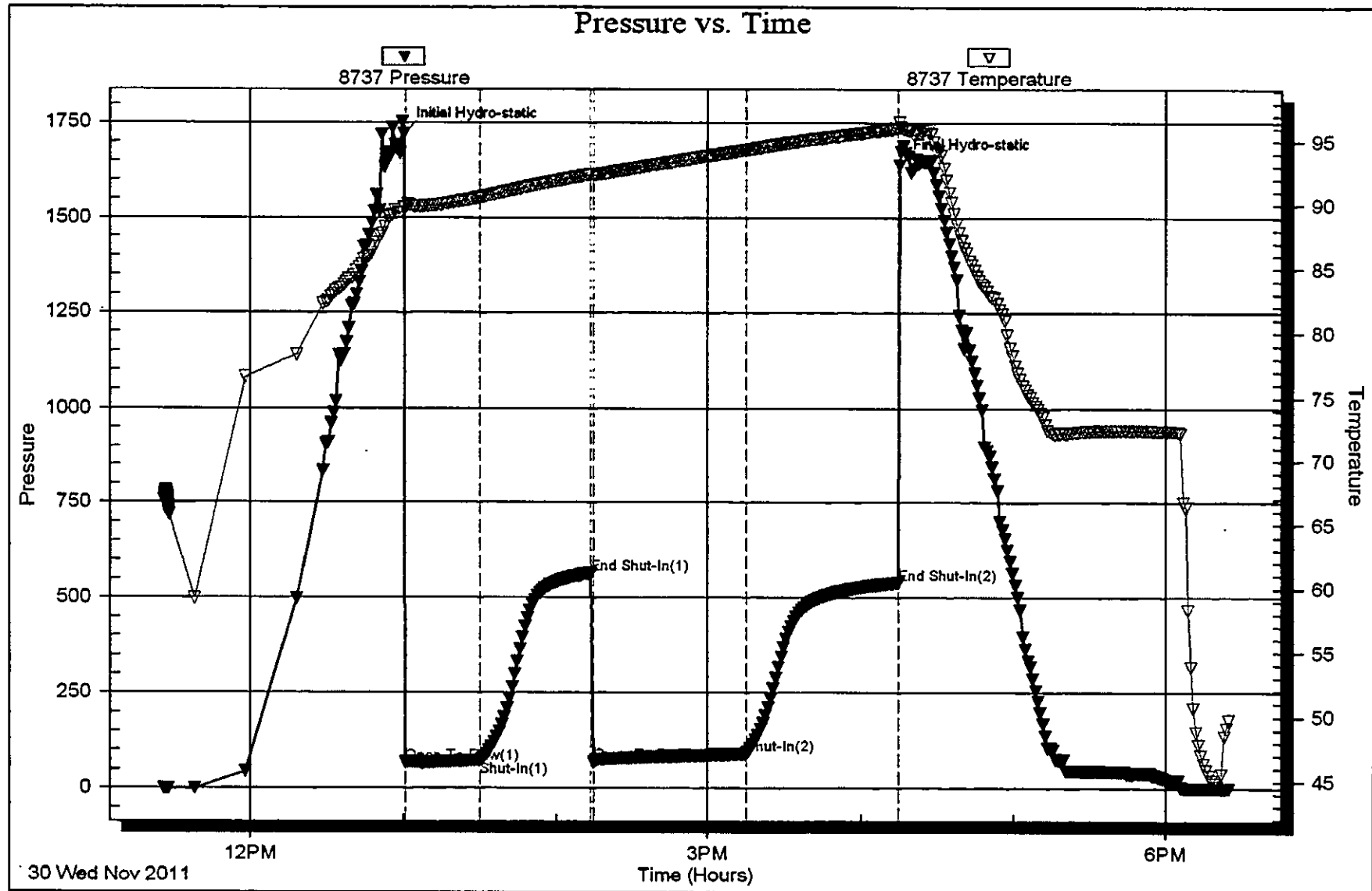
Oil API: deg API
Water Salinity: ppm

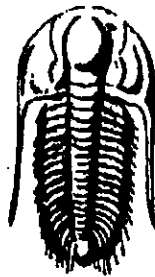
Recovery Information

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:





**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 Management 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

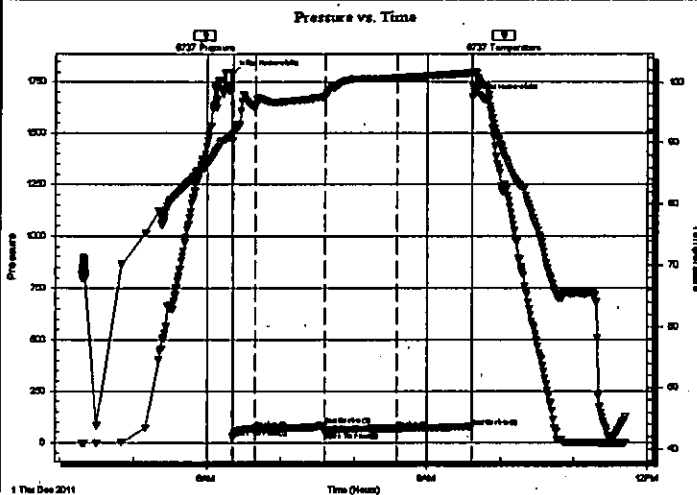
Capacity: **8000.00 psig**

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

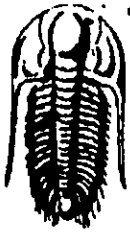
Recovery

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

Gas Rates

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

* Recovery from multiple tests



**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

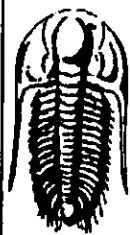
Drill Pipe:	Length: 3520.00 ft	Diameter: 3.80 inches	Volume: 49.38 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.53 bbl</u>	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

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:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

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

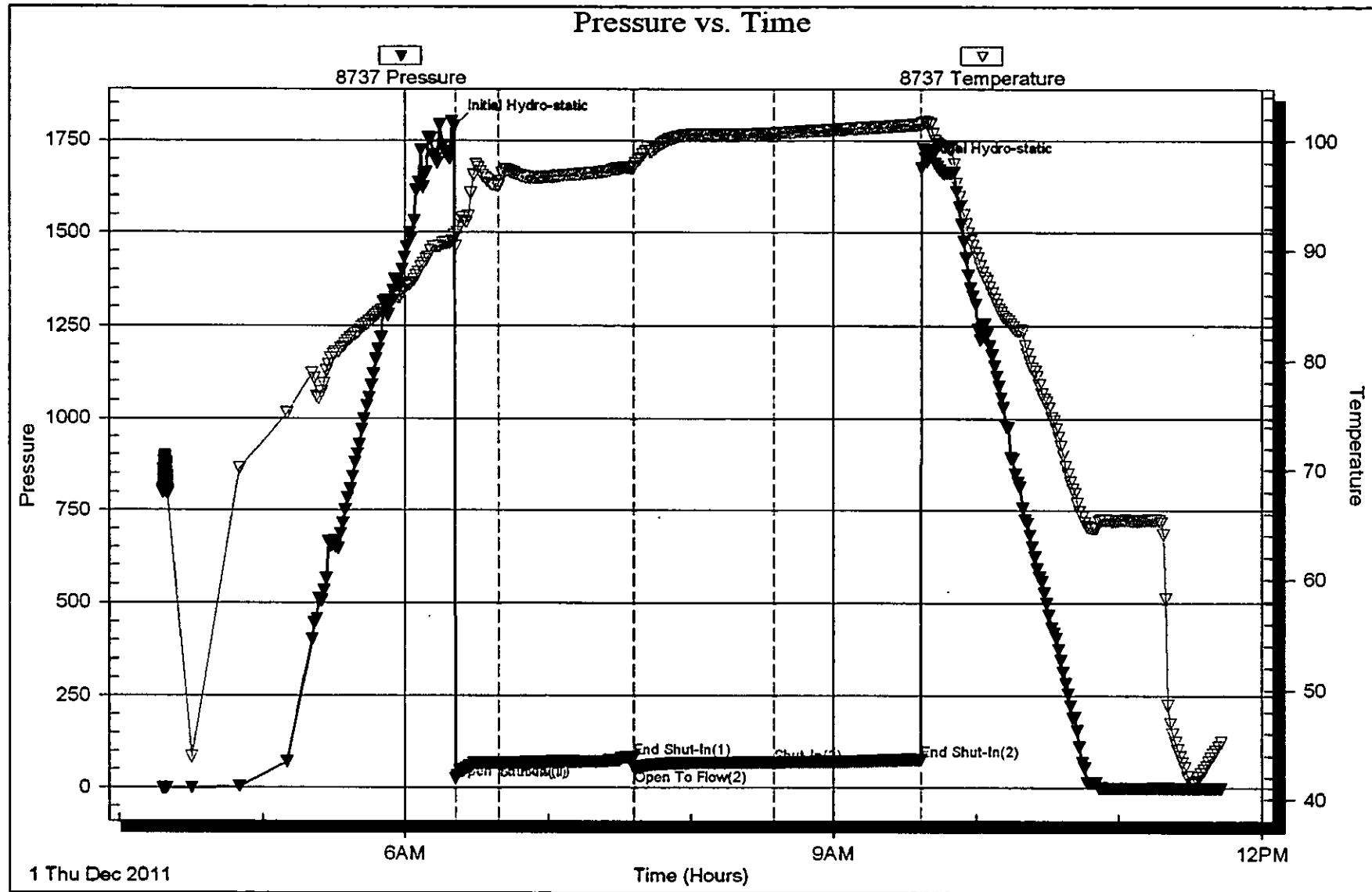
Num Gas Bombs: 0

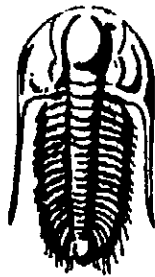
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity: 28 @ 50 Degrees





**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 @ 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

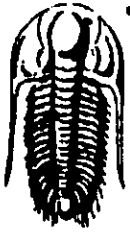
31-11s-17w Ellis,KS

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:

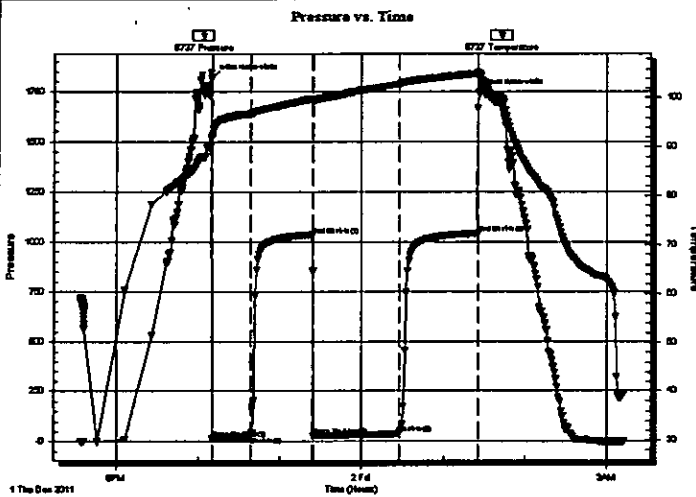
Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 22:10:30
 Time Test Ended: 03:13:00
 Interval: **3630.00 ft (KB) To 3636.00 ft (KB) (TVD)**
 Total Depth: **3636.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Cody Bloedorn**
 Unit No: **44**
 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)** Capacity: **8000.00 psig**
 Start Date: **2011.12.01** End Date: **2011.12.02** 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 Mn.
 60 - FF- 1 1/4" blow
 60 - FS- Weak surface blow, died in 43 Mn.



PRESSURE SUMMARY

Time (Mn.)	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	SOCMW, 20%M, 10%O, 70%W	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

E&B Natural Resources Management Corp

31-11s-17w Ells,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

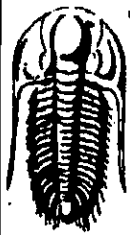
Drill Pipe:	Length: 3582.00 ft	Diameter: 3.80 inches	Volume: 50.25 bbl.	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 50.40 bbl</u>	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:

bbbl

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	SOCMM, 20%M, 10%O, 70%W	0.152

Total Length: 31.00ft Total Volume: 0.152 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

