



KANSAS CORPORATION COMMISSION 1075609  
OIL & GAS CONSERVATION DIVISION

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 # 31819  
Name: Cholla Production, LLC  
Address 1: 7851 S ELATI ST STE 201  
Address 2: \_\_\_\_\_  
City: LITTLETON State: CO Zip: 80120 + 8081  
Contact Person: Emily Hundley-Goff  
Phone: ( 303 ) 623-4565  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Bill Goff  
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 #: \_\_\_\_\_

<u>08/06/2011</u>	<u>08/15/2011</u>	<u>10/05/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-171-20825-00-00

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

\_\_\_\_\_ SE SE Sec. 32 Twp. 19 S. R. 33  East  West  
660 Feet from  North /  South Line of Section  
660 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Scott

Lease Name: Bontrager Well #: 1-32

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

Producing Formation: None

Elevation: Ground: 2980 Kelly Bushing: 2983

Total Depth: 4780 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 262 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 0 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: 18000 ppm Fluid volume: 900 bbls

Dewatering method used: Evaporated

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: NAOMI JAMES Date: 03/30/2012



1075609

Operator Name: Cholla Production, LLC Lease Name: Bontrager Well #: 1-32  
 Sec. 32 Twp. 19 S. R. 33  East  West County: Scott

**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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Attached</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum None 0 0
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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	12.25	8.625	23	262	Common	175	2% Gel, 3% CaCL
Production	7.875	4.5	11.6	4769	ASC	170	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input checked="" 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 <i>(Amount and Kind of Material Used)</i>	Depth
Attached	Attached	Attached	Attached

TUBING RECORD:		Size: <u>2.375</u>	Set At: <u>4760</u>	Packer At: <u>SN@4654</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.			Producing Method:		
			<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Cholla Production, LLC
Well Name	Bontrager 1-32
Doc ID	1075609

All Electric Logs Run

Induction
Micro Log
Neu Den Mic
Sonic
Hi Res

Form	ACO1 - Well Completion
Operator	Cholla Production, LLC
Well Name	Bontrager 1-32
Doc ID	1075609

Perforations

4	4682-86	8.5 bbls 7 1/2% NEFE HCL	4682-86
		1500 gal NEFE 15% HCL/18bbls	
2	4652-57	4bbls NEFE 7 1/2% HCL/ 6 bbls KCL	4652-57
	Frac	480bbls KCL WTR/18000#SD	
2	4550-60	1500gal NEFE 20% HCL / 18bbls KCL	4550-60
4	4454-58/ 4431-34	1200gal NEFE 20%HCL/ 3000 gal NEFE 15% HCL(gelled)	4454-58/ 4431-34
4	4350-54	750 gal NEFE 15% KCL	

# ALLIED CEMENTING CO., LLC. 043278

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: in Okla. Pt

DATE	SEC	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE	WELL #	LOCATION			COUNTY	STATE	
OLD OR NEW (Circle one)							

CONTRACTOR _____ TYPE OF JOB _____ HOLE SIZE _____ T.D. _____ CASING SIZE _____ DEPTH _____ TUBING SIZE _____ DEPTH _____ DRILL PIPE _____ DEPTH _____ TOOL _____ DEPTH _____ PRES. MAX _____ MINIMUM _____ MEAS. LINE _____ SHOE JOINT _____ CEMENT LEFT IN CSG. _____ PERFS. _____ DISPLACEMENT _____	OWNER _____ CEMENT AMOUNT ORDERED _____ COMMON _____ @ _____ POZMIX _____ @ _____ GEL _____ @ _____ CHLORIDE _____ @ _____ ASC _____ @ _____ _____ @ _____ _____ @ _____ _____ @ _____ _____ @ _____ HANDLING _____ @ _____ MILEAGE _____ @ _____
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**EQUIPMENT**

PUMP TRUCK	CEMENTER	_____
#	HELPER	_____
BULK TRUCK		_____
#	DRIVER	_____
BULK TRUCK		_____
#	DRIVER	_____

**REMARKS:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

CHARGE TO: \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Louise King

SIGNATURE \_\_\_\_\_

**SERVICE**

DEPTH OF JOB	_____	_____
PUMP TRUCK CHARGE	_____	1100.00
EXTRA FOOTAGE	@ _____	_____
MILEAGE	@ _____	500.00
MANIFOLD	@ _____	300.00
	@ _____	164.00
	@ _____	_____

TOTAL 2704.00

**PLUG & FLOAT EQUIPMENT**

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____

TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# ALLIED CEMENTING CO., LLC. 043388

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Oakley, Ks

DATE <u>8-15-11</u>	SEC <u>32</u>	TWP. <u>19</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION	JOB START <u>8:29am</u>	JOB END <u>1:30pm</u>
LEASE <u>Bontrager</u>	WELL # <u>1-32</u>	LOCATION <u>Shallowater, Ks 462745</u>		COUNTY <u>Scott</u>	STATE <u>Ks</u>		
OLD OR NEW (circle one) <u>NEW</u>							

CONTRACTOR Ww #2

TYPE OF JOB production

HOLE SIZE 7 7/8" T.D. 4780'

CASING SIZE 4 1/2" DEPTH 4769'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL port collar DEPTH 225'

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 35'

CEMENT LEFT IN CSG. 35'

PERFS. \_\_\_\_\_

DISPLACEMENT 73,38 bbl

OWNER same

CEMENT AMOUNT ORDERED 210 sks ASC 10200lb

5 gal gilsonite

COMMON _____	POZMIX _____	GEL _____	CHLORIDE _____	ASC <u>210 sks</u> @ <u>17.00</u> <u>3570.00</u>
<u>WFR2</u> <u>500gal</u> @ <u>1.27</u> <u>635.00</u>	<u>gilsomite</u> <u>1050#</u> @ <u>.89</u> <u>934.50</u>	<u>salt</u> <u>20sks</u> @ <u>23.95</u> <u>479.00</u>	HANDLING <u>267 gal</u> @ <u>2.25</u> <u>600.75</u>	MILEAGE <u>114.56/mile</u> @ <u>17.03</u> <u>1953.46</u>
TOTAL <u>8934.71</u>				

EQUIPMENT

PUMP TRUCK CEMENTER Lakene

# 423/281 HELPER Darren

BULK TRUCK DRIVER Chris

# 396/306

BULK TRUCK DRIVER \_\_\_\_\_

REMARKS:

Run pipe - circulate  
permeability, mix WFR2, pump circulation  
plug material 20sks & Retillite 30sks  
Mix 160 sks down 4 1/2 casing displ  
with water, Land plug float acid

Thank you

CHARGE TO: Cholla Production

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB 4769'

PUMP TRUCK CHARGE 2405.00

EXTRA FOOTAGE \_\_\_\_\_

MILEAGE 58x2 @ 2.00 812.00

MANIFOLD head @ 200.00

light & include mileage @ 4.00 464.00

TOTAL 3881.00

PLUG & FLOAT EQUIPMENT

4 1/2" guide shoe 192.00

WAFU Insert @ 292.00

ERTD Baskets @ 270.00 540.00

ERTD Centralizers @ 38.00 430.00

1) Port Collar @ 2485.00

1) Shock Ring @ 42.00

1) Top Rubber plug 71.00

TOTAL 4011.00

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

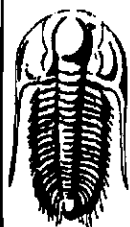
PRINTED NAME Roger Pearson

SIGNATURE Roger Pearson

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Cholla Production LLC

7851 S Elati St Ste 201  
Littleton, Co 80120

ATTN: Bill Goff

**Bontrager 1-32**

**32-19s-33w Scott, KS**

Job Ticket: 43677

DST#: 1

Test Start: 2011.08.11 @ 05:57:41

### GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:36

Time Test Ended: 13:48:35

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4264.00 ft (KB) To 4324.00 ft (KB) (TVD)**

Total Depth: 4324.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2983.00 ft (KB)

2978.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8373**

Inside

Press@RunDepth: 1143.96 psig @ 4265.00 ft (KB)

Start Date: 2011.08.11

End Date:

2011.08.11

Capacity: 8000.00 psig

Last Calib.: 2011.08.11

Start Time: 05:57:41

End Time:

13:48:35

Time On Btm: 2011.08.11 @ 08:04:06

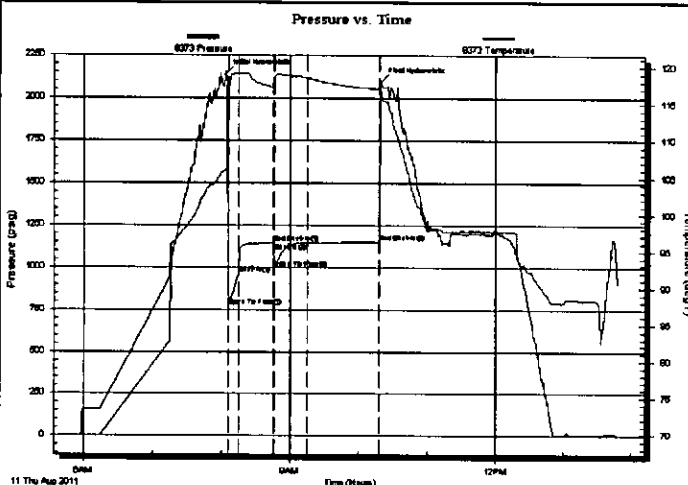
Time Off Btm: 2011.08.11 @ 10:19:20

TEST COMMENT: IF: BOB in 1 min.

IS: No return.

FF: BOB in 2 min.

FS: No return.



### PRESSURE SUMMARY

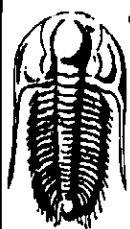
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.67	106.17	Initial Hydro-static
2	771.50	109.21	Open To Flow (1)
11	957.64	119.07	Shut-In(1)
41	1144.35	117.32	End Shut-In(1)
42	995.25	116.95	Open To Flow (2)
71	1143.96	118.52	Shut-In(2)
134	1147.26	117.01	End Shut-In(2)
136	2100.05	116.51	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	water 100%w	0.61
2108.00	mcw 90%w 10%m	29.57
258.00	w cm 20%w 80%m	3.62

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cholla Production LLC

**Bontrager 1-32**

7851 S Elati St Ste 201  
Littleton, Co 80120

**32-19s-33w Scott, KS**

Job Ticket: 43677

**DST#: 1**

ATTN: Bill Goff

Test Start: 2011.08.11 @ 05:57:41

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	water 100%w	0.610
2108.00	mcw 90%w 10%m	29.570
258.00	w cm 20%w 80%m	3.619

Total Length: 2490.00 ft      Total Volume: 33.799 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

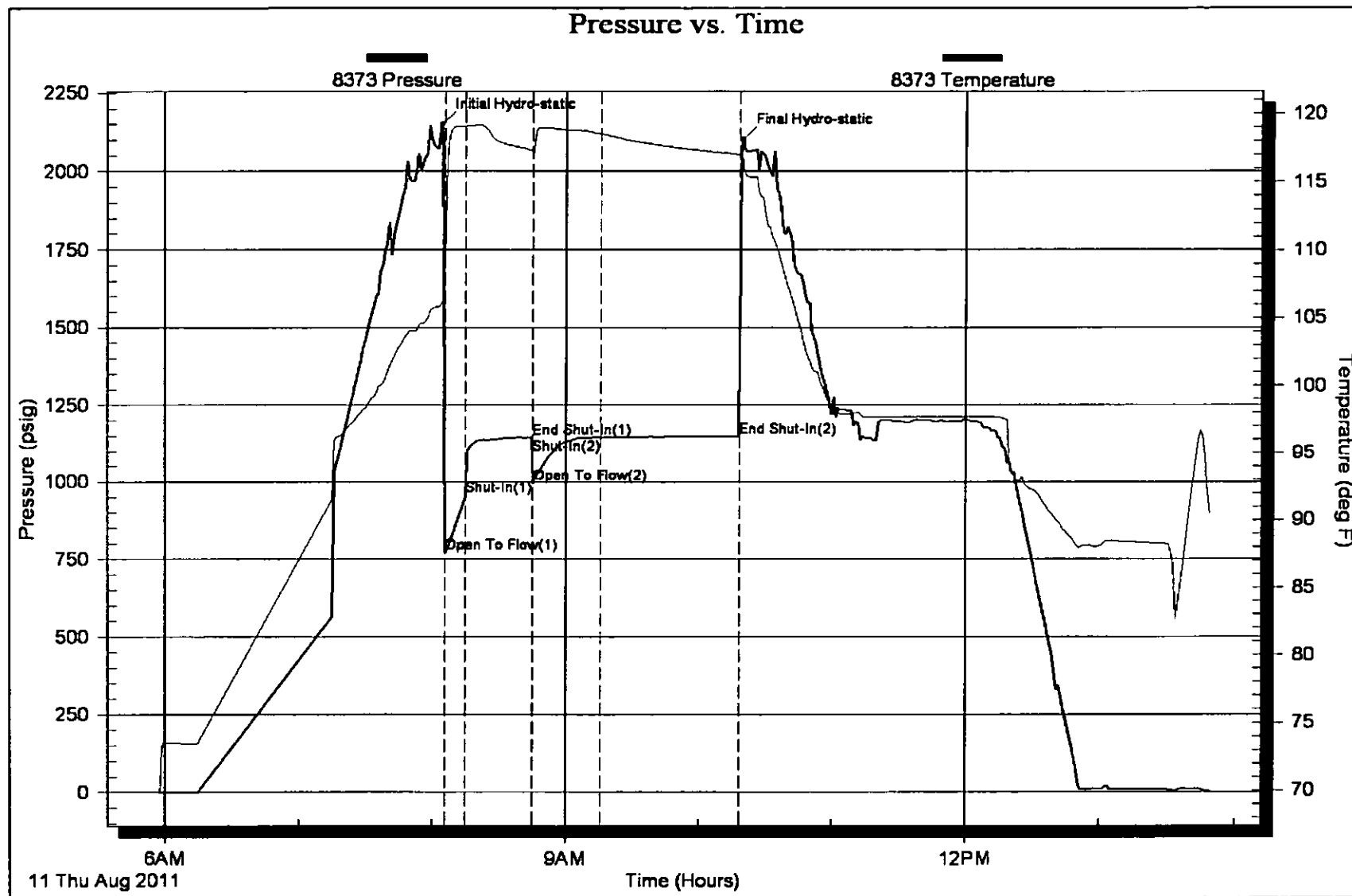
Serial #:

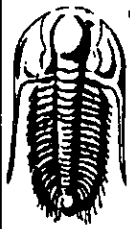
Laboratory Name:

Laboratory Location:

Recovery Comments: .20@97=24000







**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Cholla Production LLC  
7851 S Elati St Ste 201  
Littleton, Co 80120  
ATTN: Bill Goff

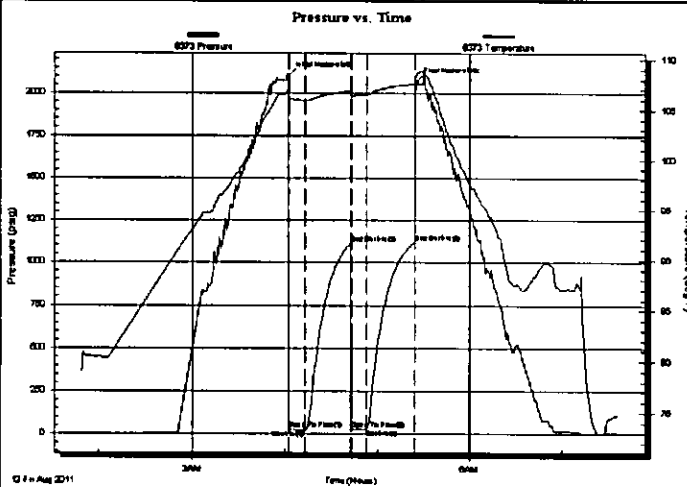
**Bontrager 1-32**  
**32-19s-33w Scott, KS**  
Job Ticket: 43678      DST#: 2  
Test Start: 2011.08.12 @ 01:48:59

### GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 04:02:24  
Time Test Ended: 07:37:38  
Interval: **4300.00 ft (KB) To 4366.00 ft (KB) (TVD)**  
Total Depth: 4366.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Brandon Turley  
Unit No: 35  
Reference Elevations: 2983.00 ft (KB)  
2978.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8373**      Inside  
Press@RunDepth: 30.26 psig @ 4301.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.08.12      End Date: 2011.08.12      Last Calib.: 2011.08.12  
Start Time: 01:48:59      End Time: 07:37:38      Time On Btm: 2011.08.12 @ 04:02:09  
Time Off Btm: 2011.08.12 @ 05:25:09

**TEST COMMENT:** IF: 1/4 blow died in 7 min.  
IS: No return.  
FF: No blow.  
FS: No return.



### PRESSURE SUMMARY

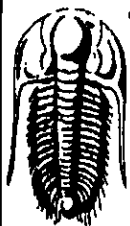
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.71	106.89	Initial Hydro-static
1	29.83	106.21	Open To Flow (1)
11	25.59	105.93	Shut-in(1)
41	1110.39	106.88	End Shut-in(1)
41	29.22	106.31	Open To Flow (2)
51	30.26	106.52	Shut-in(2)
82	1119.27	107.62	End Shut-in(2)
83	2071.25	108.63	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cholla Production LLC

**Bontrager 1-32**

7851 S Elati St Ste 201  
Littleton, Co 80120

**32-19s-33w Scott, KS**

Job Ticket: 43678

**DST#: 2**

ATTN: Bill Goff

Test Start: 2011.08.12 @ 01:48:59

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100% <sub>m</sub>	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

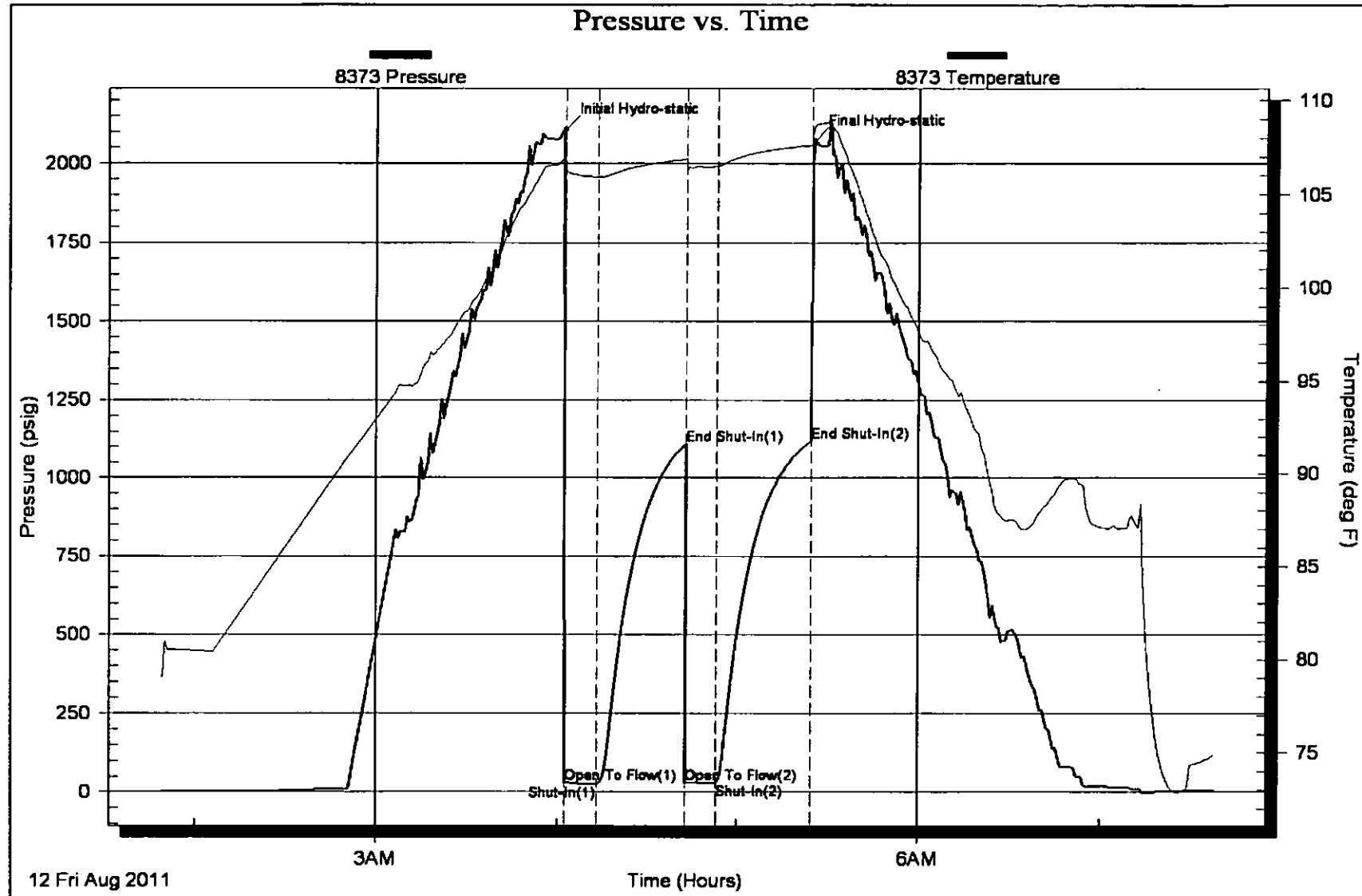
Num Gas Bombs: 0

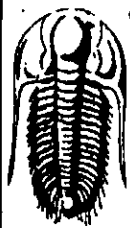
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Cholla Production LLC

7851 S Elati St Ste 201  
Littleton, Co 80120

ATTN: Bill Goff

**Bontrager 1-32**

**32-19s-33w Scott, KS**

Job Ticket: 43679

DST#: 3

Test Start: 2011.08.13 @ 00:49:50

### GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**

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

Time Tool Opened: 03:02:45

Time Test Ended: 06:59:44

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turkey**

Unit No: **35**

Interval: **4394.00 ft (KB) To 4462.00 ft (KB) (TVD)**

Total Depth: **4462.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2983.00 ft (KB)**

**2978.00 ft (CF)**

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

**Serial #: 8373**

**Inside**

Press@RunDepth: **39.32 psig @ 4395.00 ft (KB)**

Start Date: **2011.08.13**

End Date:

**2011.08.13**

Capacity: **8000.00 psig**

Last Calib.: **2011.08.13**

Start Time: **00:49:50**

End Time:

**06:59:44**

Time On Btm: **2011.08.13 @ 03:00:45**

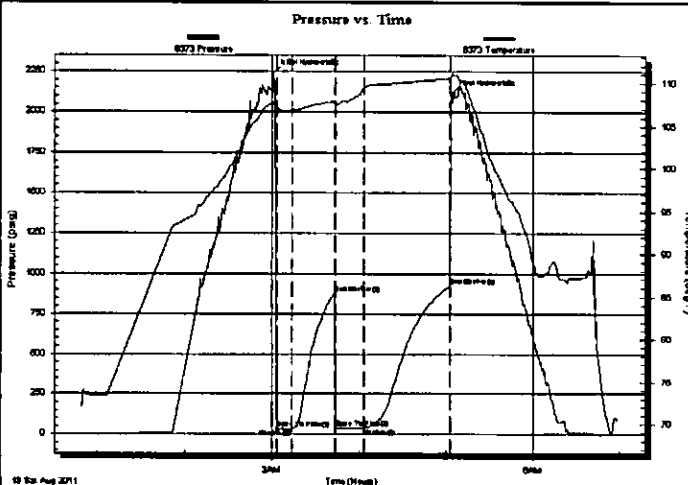
Time Off Btm: **2011.08.13 @ 05:03:45**

TEST COMMENT: **IF: 1/4 blow died in 8 min.**

**IS: No return.**

**FF: No blow.**

**FS: No return.**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.48	107.57	Initial Hydro-static
2	33.69	107.29	Open To Flow (1)
13	31.68	106.77	Shut-in(1)
42	873.93	107.85	End Shut-in(1)
43	36.77	107.43	Open To Flow (2)
63	39.32	109.41	Shut-in(2)
122	924.40	110.55	End Shut-in(2)
123	2118.49	110.88	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cholla Production LLC

**Bontrager 1-32**

7851 S Eati St Ste 201  
Littleton, Co 80120

**32-19s-33w Scott, KS**

Job Ticket: 43679

**DST#: 3**

ATTN: Bill Goff

Test Start: 2011.08.13 @ 00:49:50

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

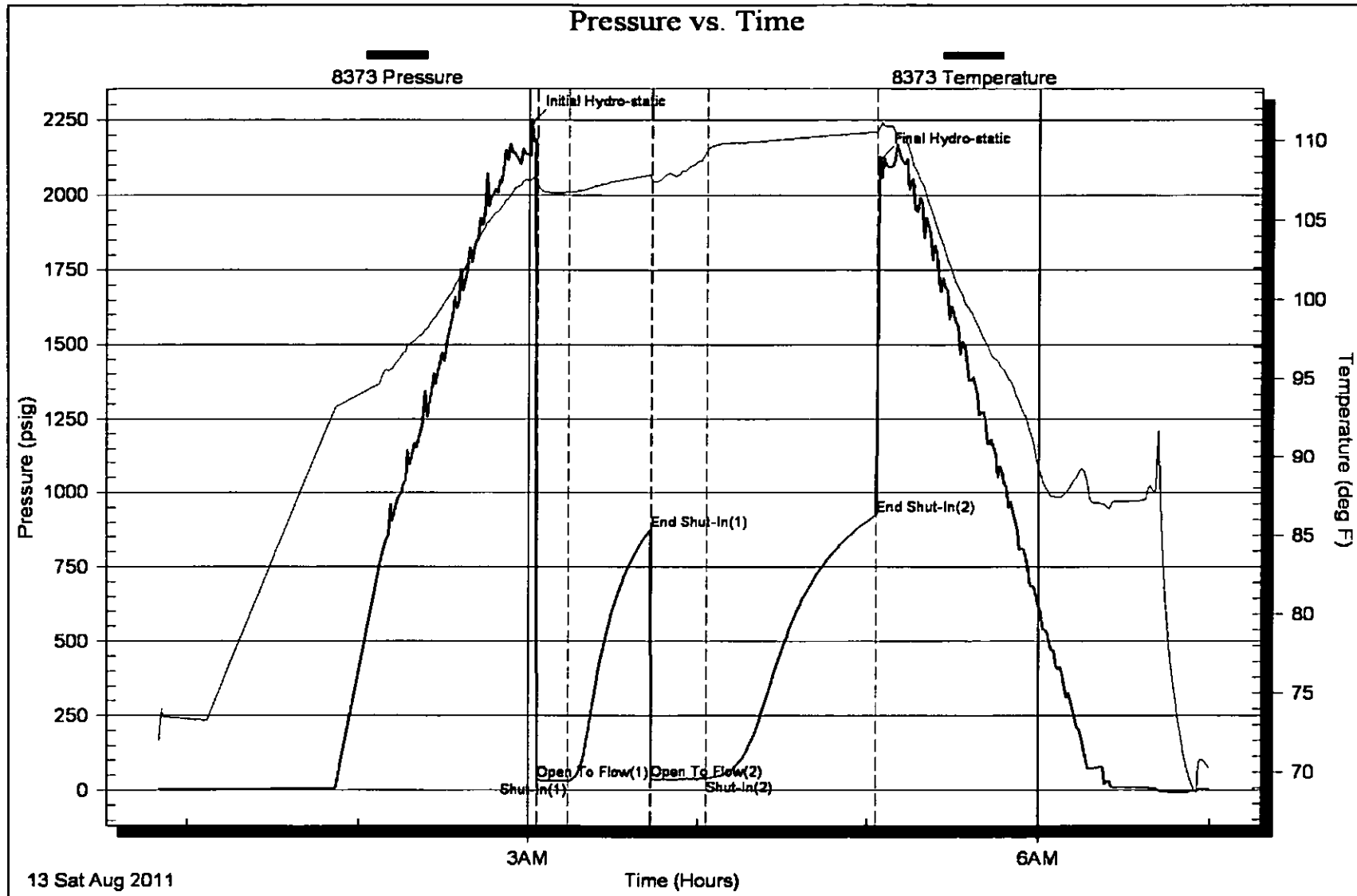
Num Gas Bombs: 0

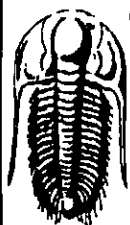
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Cholla Production LLC

7851 S Bati St Ste 201  
Littleton, Co 80120

ATTN: Bill Goff

**Bontrager 1-32**

**32-19s-33w Scott, KS**

Job Ticket: 43680

DST#: 4

Test Start: 2011.08.14 @ 01:11:34

### GENERAL INFORMATION:

Formation: **Marrow**

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

Time Tool Opened: 03:17:29

Time Test Ended: 07:15:28

Interval: **4610.00 ft (KB) To 4650.00 ft (KB) (TVD)**

Total Depth: **4650.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Reference Elevations: **2983.00 ft (KB)**

**2978.00 ft (CF)**

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

**Serial #: 8373**

**Inside**

Press@RunDepth: **29.89 psig @ 4611.00 ft (KB)**

Start Date: **2011.08.14**

End Date:

**2011.08.14**

Capacity: **8000.00 psig**

Last Calib.: **2011.08.14**

Start Time: **01:11:34**

End Time:

**07:15:28**

Time On Btm: **2011.08.14 @ 03:15:59**

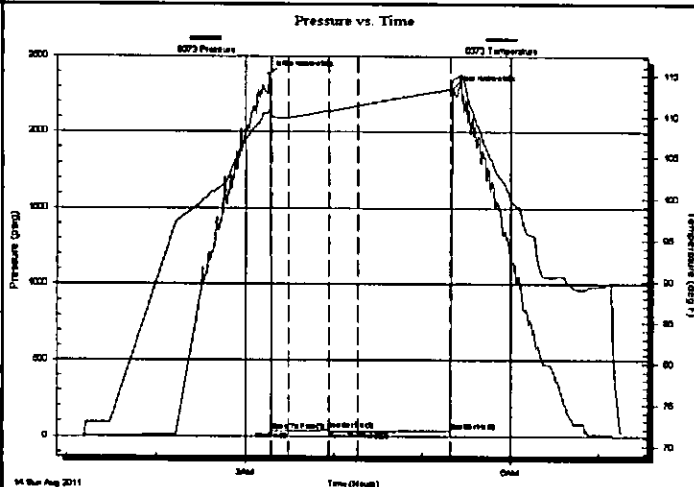
Time Off Btm: **2011.08.14 @ 05:19:59**

TEST COMMENT: **IF: Surface blow died in 6 min.**

**IS: No return.**

**FF: No blow .**

**FS: No return.**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2381.47	110.61	Initial Hydro-static
2	37.03	109.99	Open To Flow (1)
13	31.68	109.86	Shut-In(1)
41	40.59	110.72	End Shut-In(1)
41	30.04	110.68	Open To Flow (2)
60	29.89	111.26	Shut-In(2)
123	37.78	113.29	End Shut-In(2)
124	2289.56	114.43	Final Hydro-static

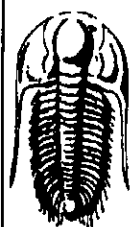
### Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%m	0.01

### Gas Rates

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





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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cholla Production LLC

**Bontrager 1-32**

7851 S Eati St Ste 201  
Littleton, Co 80120

**32-19s-33w Scott, KS**

Job Ticket: 43680

**DST#: 4**

ATTN: Bill Goff

Test Start: 2011.08.14 @ 01:11:34

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohmm

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100%m	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:

