

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

Total Vertical 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

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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

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

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Bickle Energies LLC
Well Name	CLIFFHANGER 8-1
Doc ID	1303291

All Electric Logs Run

CNL/CDL
MICRO
SONIC
DUAL INDUCTION

Form	ACO1 - Well Completion
Operator	Bickle Energies LLC
Well Name	CLIFFHANGER 8-1
Doc ID	1303291

Tops

Name	Top	Datum
Anhydrite Top	2357	+527
Anhydrite Base	2381	+503
Topeka	3729	-845
Heebner	3896	-1012
Lansing	3934	-1050
Stark Shale	4178	-1294
Hushpuckney	4212	-1328
Marmaton	4292	-1408
Pawnee Lime	4375	-1491
Ft. Scott Lime	4407	-1523
U. Cherokee Shale	4428	-1544
L. Cherokee Shale	4459	-1575
"Johnson"	4504	-1620
Morrow Shale	4525	-1641
Mississippi Lime	4580	-1696
RTD	4640	-1756
LTD	4640	-1756





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Bickle Energies LLC

2052 250th Ave  
Hays KS 67601

ATTN: Eil Felts

**8-14s-31w Gove Co KS**

**Cliffhanger #8-1**

Job Ticket: 64567

**DST#: 1**

Test Start: 2016.03.29 @ 18:43:15

## GENERAL INFORMATION:

Formation: **Ft. Scott Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:54:15

Time Test Ended: 01:14:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 75

**Interval: 4407.00 ft (KB) To 4460.00 ft (KB) (TVD)**

Reference Elevations: 2887.00 ft (KB)

Total Depth: ft (KB) (TVD)

2877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8737 Outside**

Press @ Run Depth: 35.23 psig @ 4416.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.29

End Date:

2016.03.30

Last Calib.:

2016.03.30

Start Time: 18:43:15

End Time:

01:14:45

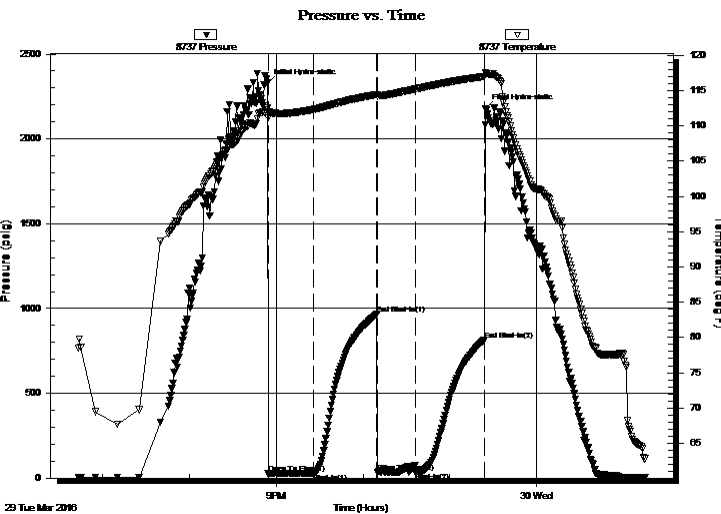
Time On Btm:

2016.03.29 @ 20:54:00

Time Off Btm:

2016.03.29 @ 23:24:45

TEST COMMENT: IF: Built to 1/8" blow  
IS: No return blow  
FF: No blow  
FS: No return blow



## PRESSURE SUMMARY

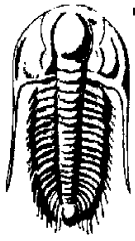
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2324.02	112.55	Initial Hydro-static
1	26.20	111.19	Open To Flow (1)
32	28.90	112.34	Shut-In(1)
76	965.84	114.45	End Shut-In(1)
76	35.98	114.24	Open To Flow (2)
103	35.23	115.25	Shut-In(2)
150	814.70	117.01	End Shut-In(2)
151	2179.58	117.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud with oil spots	0.14

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Bickle Energies LLC

2052 250th Ave  
Hays KS 67601

ATTN: Eil Felts

8-14s-31w Gove Co KS

Cliffhanger #8-1

Job Ticket: 64567

DST#: 1

Test Start: 2016.03.29 @ 18:43:15

### GENERAL INFORMATION:

Formation: **Ft. Scott Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:54:15

Time Test Ended: 01:14:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 75

Interval: **4407.00 ft (KB) To 4460.00 ft (KB) (TVD)**

Reference Elevations: 2887.00 ft (KB)

Total Depth: ft (KB) (TVD)

2877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

### Serial #: 8646

Press @ Run Depth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.29

End Date: 2016.03.30

Last Calib.: 2016.03.30

Start Time: 18:43:56

End Time: 01:15:26

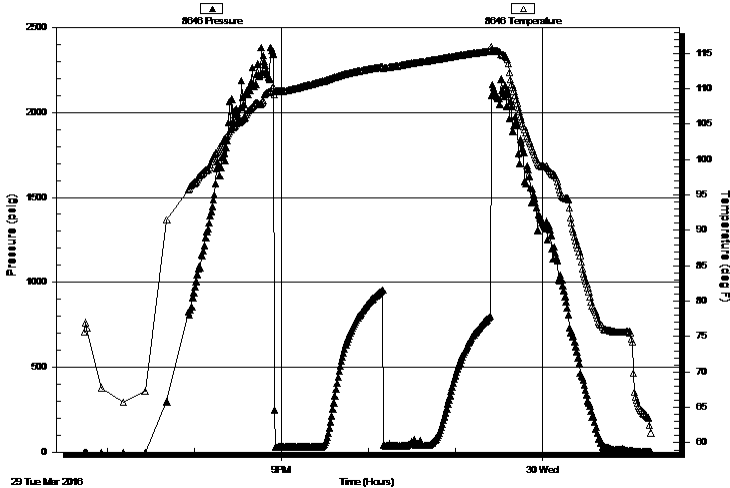
Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 1/8" blow  
IS: No return blow  
FF: No blow  
FS: No return blow

### PRESSURE SUMMARY

Pressure vs. Time



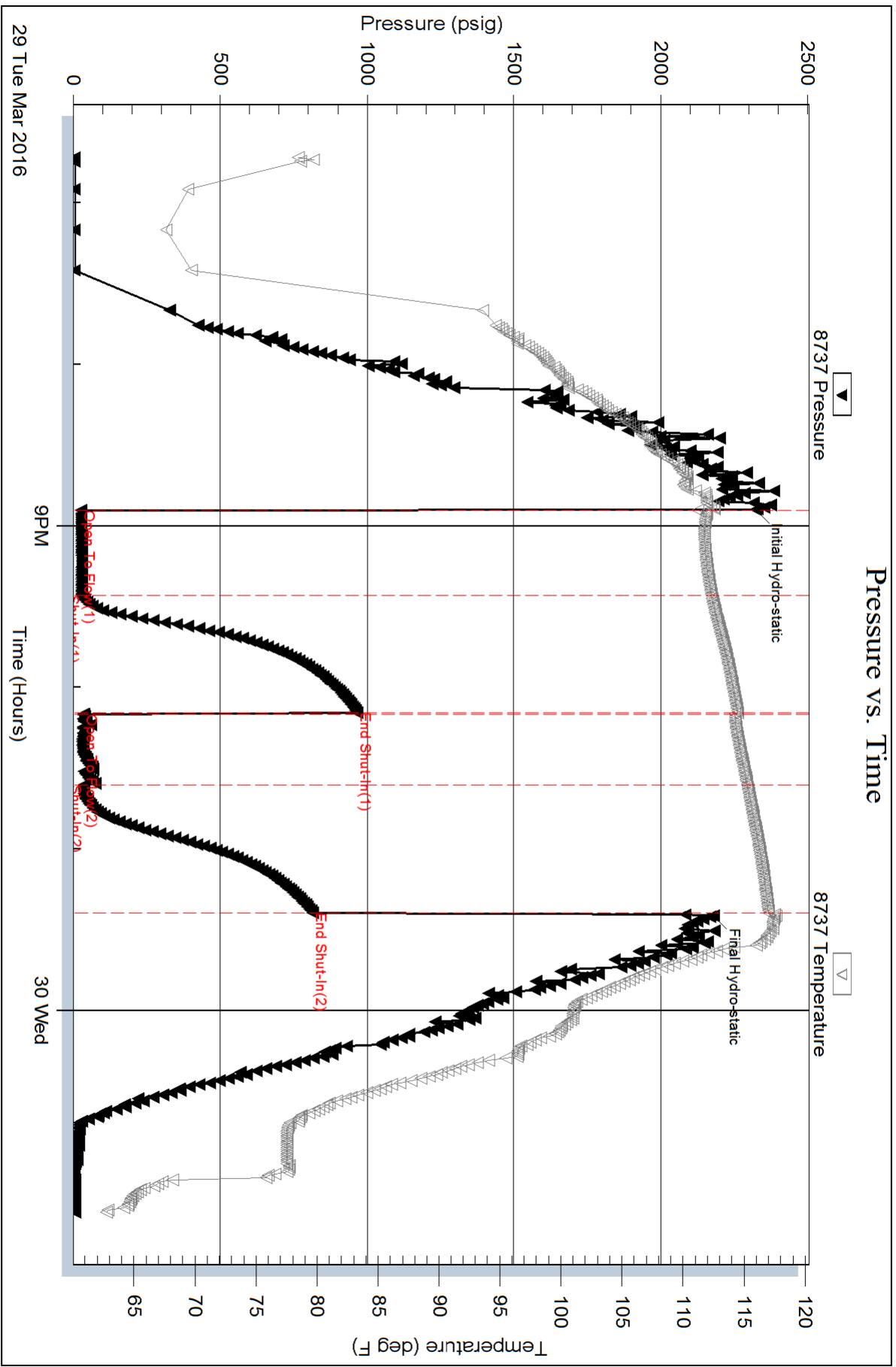
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

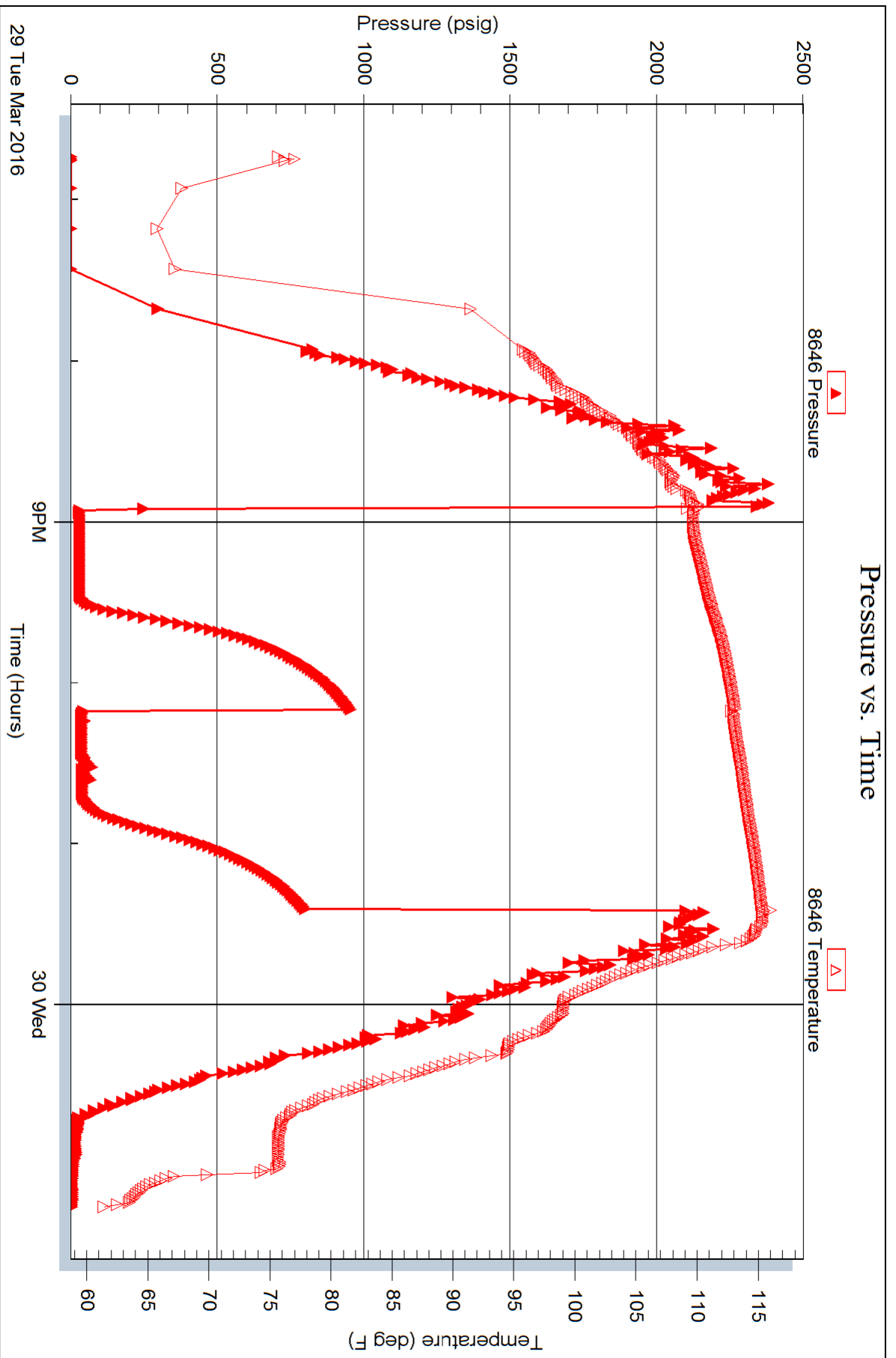
Length (ft)	Description	Volume (bbl)
10.00	mud w ith oil spots	0.14

### Gas Rates

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









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Bickle Energies LLC

2052 250th Ave  
Hays KS 67601

ATTN: Eil Felts

**8-14s-31w Gove Co KS**

**Cliffhanger #8-1**

Job Ticket: 64568

**DST#: 2**

Test Start: 2016.03.30 @ 15:15:15

## GENERAL INFORMATION:

Formation: **Lower cherokee-lower**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:29:30

Time Test Ended: 23:20:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 75

**Interval: 4460.00 ft (KB) To 4525.00 ft (KB) (TVD)**

Reference Elevations: 2887.00 ft (KB)

Total Depth: 4525.00 ft (KB) (TVD)

2877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8737 Outside**

Press @ Run Depth: 239.41 psig @ 4466.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.30

End Date:

2016.03.30

Last Calib.:

2016.03.30

Start Time:

15:15:15

End Time:

23:20:45

Time On Btm:

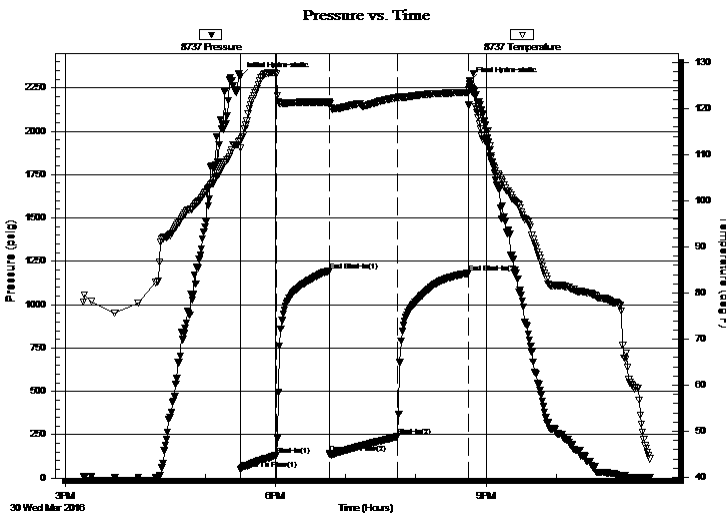
2016.03.30 @ 17:29:15

Time Off Btm:

2016.03.30 @ 20:46:00

**TEST COMMENT:** IF:BOB in 10 minutes  
IS:Built to 1/8" blow and died in 30 minutes  
FF:BOB in 12 minutes  
FS:Built to 7" blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2316.72	112.94	Initial Hydro-static
1	52.80	111.37	Open To Flow (1)
31	129.94	127.49	Shut-In(1)
77	1195.59	121.40	End Shut-In(1)
77	140.89	120.92	Open To Flow (2)
136	239.41	122.42	Shut-In(2)
196	1180.78	123.53	End Shut-In(2)
197	2288.37	124.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
134.00	free oil 100% o	1.88
124.00	mcgo 5%m 20%g 75%o	1.74
124.00	gco 10%g 90%o	1.74
124.00	mcgo 10%m 25%g 65%o	1.74

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Bickle Energies LLC

8-14s-31w Gove Co KS

2052 250th Ave  
Hays KS 67601

Cliffhanger #8-1

Job Ticket: 64568

DST#: 2

ATTN: Eil Felts

Test Start: 2016.03.30 @ 15:15:15

### GENERAL INFORMATION:

Formation: **Lower cherokee-lower**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:29:30

Time Test Ended: 23:20:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 75

Interval: **4460.00 ft (KB) To 4525.00 ft (KB) (TVD)**

Reference Elevations: 2887.00 ft (KB)

Total Depth: 4525.00 ft (KB) (TVD)

2877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

### Serial #: 8646

Press @ Run Depth: psig @ ft (KB)

Start Date: 2016.03.30

End Date: 2016.03.30

Capacity: 8000.00 psig

Last Calib.: 2016.03.30

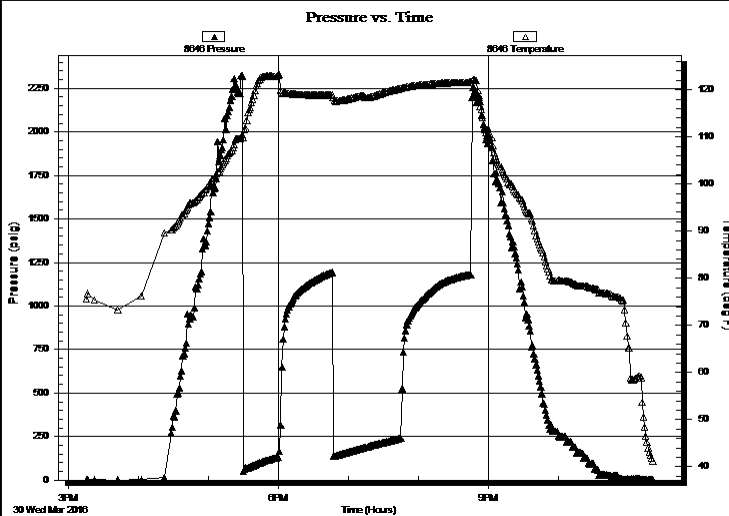
Start Time: 15:15:15

End Time: 23:20:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 10 minutes  
IS:Built to 1/8" blow and died in 30 minutes  
FF:BOB in 12 minutes  
FS:Built to 7" blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
134.00	free oil 100% o	1.88
124.00	mcgo 5%m 20%g 75%o	1.74
124.00	gco 10%g 90%o	1.74
124.00	mcgo 10%m 25%g 65%o	1.74

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bickle Energies LLC

**8-14s-31w Gove Co KS**

2052 250th Ave  
Hays KS 67601

**Cliffhanger #8-1**

Job Ticket: 64568

**DST#: 2**

ATTN: Eil Felts

Test Start: 2016.03.30 @ 15:15:15

## 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:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
134.00	free oil 100% o	1.880
124.00	mcgo 5%m 20%g 75%o	1.739
124.00	gco 10%g 90%o	1.739
124.00	mcgo 10%m 25%g 65%o	1.739

Total Length: 506.00 ft      Total Volume: 7.097 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

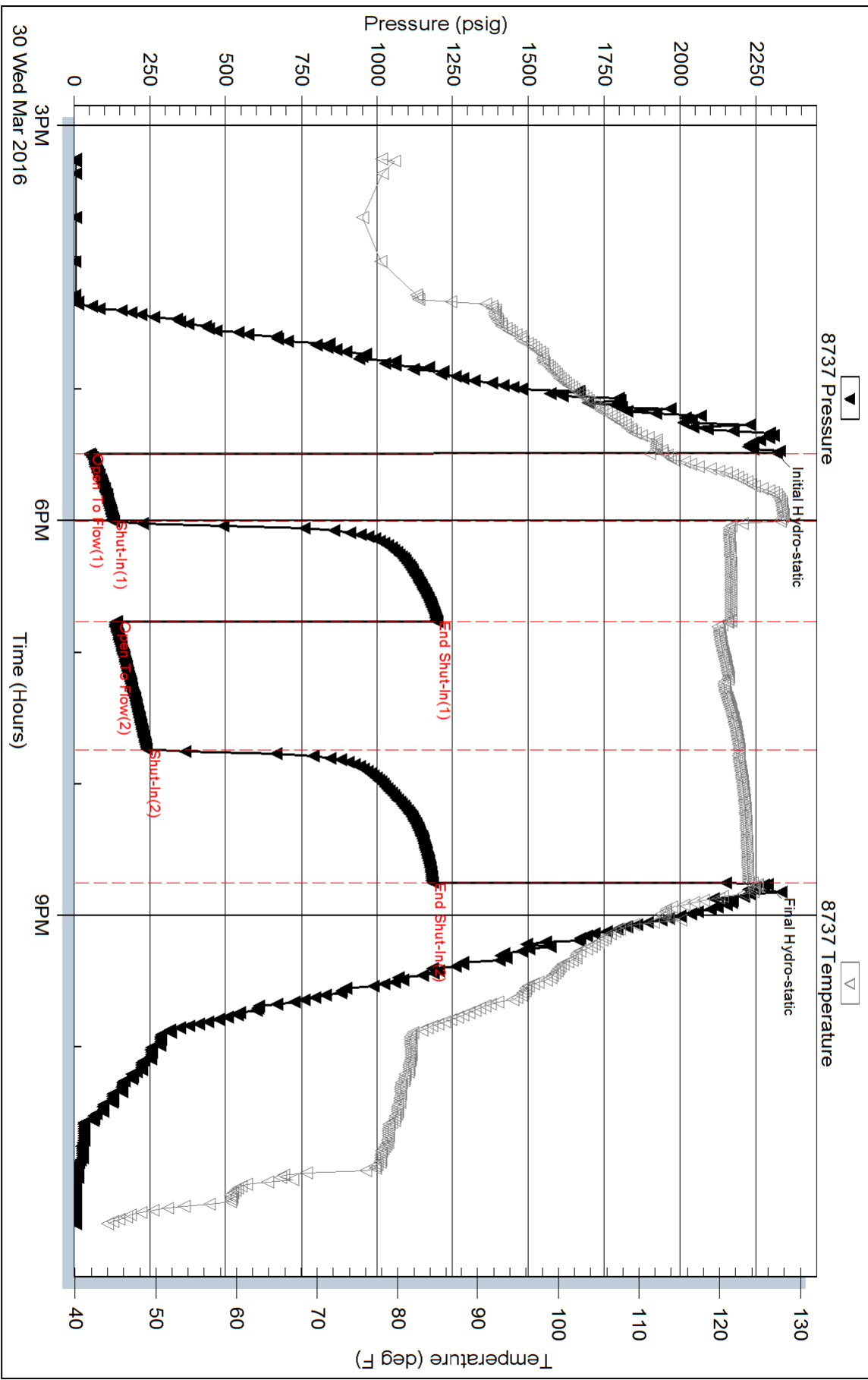
Serial #:

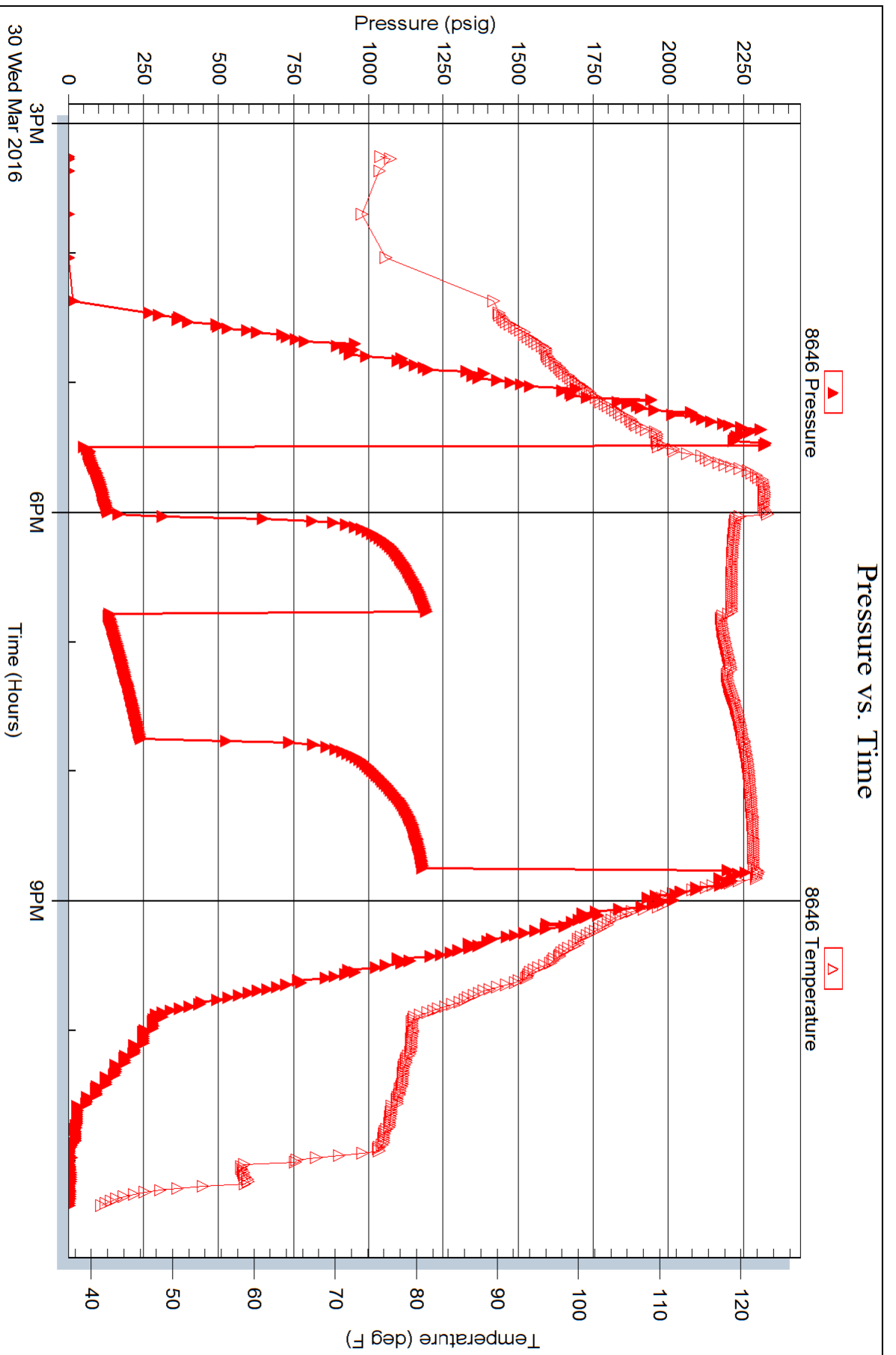
Laboratory Name:

Laboratory Location:

Recovery Comments: API 29@ 50 corrected to 30 @ 60

# Pressure vs. Time







PETERRA ENERGY SERVICES

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Cliffhanger #8-1
API #: 15-063-22282-00
Location: N2 SE SW of Sec. 8-14s-31w - Gove County, KS
License Number: KCC Licenses#: 34917
Spud Date: 3/23/2016
Surface Coordinates: 990' FSL & 1980' FWL of Section 8-14s-31w
Bottom Hole: Same as Surface Coordinates
Coordinates: 2874' N, 4850' E
Ground Elevation (ft): 2884'
Logged Interval (ft): 3400' To: RTD' Total Depth (ft): 4640'
Formation: Mississippian @ Total Depth
Type of Drilling Fluid: Kansas Drilling Technologies (Chemical Drisps)
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Bickie Energies, LLC
Address: Matt Bickie, P.O. Box #816, Hays, KS 67601

GEOLOGIST

Name: Eil J. Felts & Garet Dinkel, Consulting Petroleum Geologists
Company: PETERRA Energy Services
Address: 110 South Main, Suite #510, Wichita, KS 67202
Phone: (316) 204-5059

MORNING DRILLING REPORT table with columns for 7:00 A.M. Depth, 7:00 A.M. Current Operation, and various well parameters like depth, pressure, and flow.

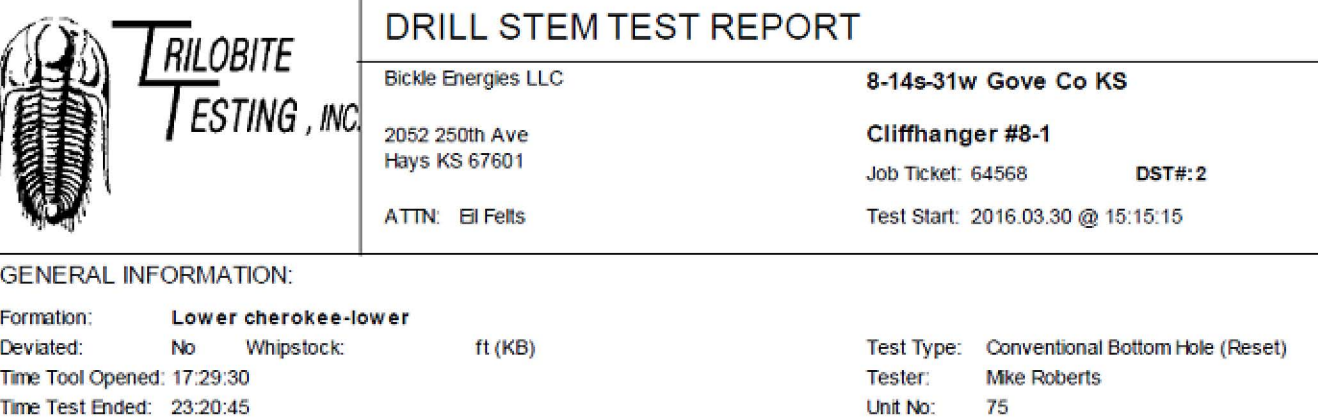
Table with columns for Formation, Depth, and Datum, listing geological layers and their elevations.

REFERENCE WELLS E-LOG TOPS table comparing well depths across different formations.

COMMENTS: Due to favorable results in DST #2, it was decided to further evaluate the well through production casing.

DRILL STEM TEST REPORT

General Information: Formation: Ft. Scott Cherokee, Interval: 4460.00 ft (KB) To 4650.00 ft (KB) (TVD), Hole Diameter: 7.86 inches-hole Condition: Fair

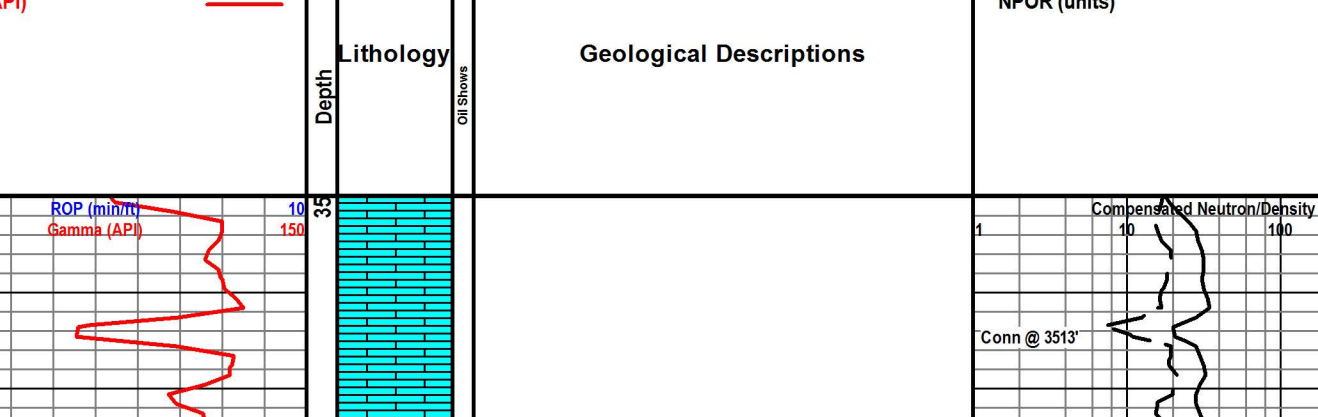


Recovery and Gas Rates tables showing well performance metrics.

TEST COMMENT: FF Built to 10' blow, FS No return blow, FS Built to 7' blow

DRILL STEM TEST REPORT

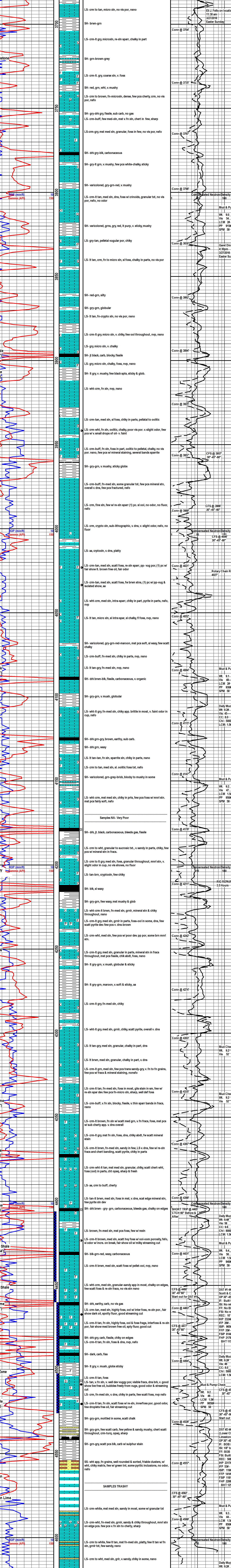
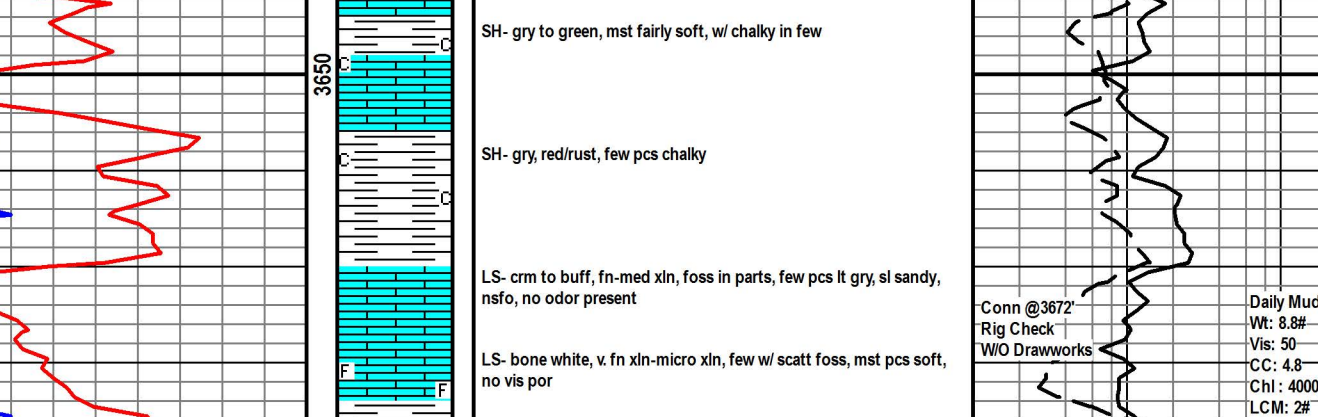
General Information: Formation: Lower Cherokee-lower, Interval: 4460.00 ft (KB) To 4525.00 ft (KB) (TVD), Hole Diameter: 7.86 inches-hole Condition: Fair



Recovery and Gas Rates tables showing well performance metrics.

TEST COMMENT: FF BOB in 10 minutes, FF Built to 10' blow and died in 30 minutes, FF BOB in 12 minutes, FS Built to 7' blow

ROCK TYPES



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1522

Date	Sec.	Twp.	Range	County	State	On Location	Finish
------	------	------	-------	--------	-------	-------------	--------

Location

Lease	Well No.	Owner
Contractor		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job		Charge To
Hole Size	T.D.	
Csg.	Depth	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered

Meas Line Displace

<b>EQUIPMENT</b>		Common
Pumptrk	No. Cementer Helper	Poz. Mix
Bulktrk	No. Driver	Gel.
Bulktrk	No. Driver Driver	Calcium

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling

**FLOAT EQUIPMENT**

Mileage	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	
Mileage	

	Tax	
	Discount	
	Total Charge	

X Signature



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1529

Date	4-1-16	Sec.	8	Twp.	14	Range	31	County	Cove	State	KS	On Location	Finish	9:00 AM
Lease								Location						

Lease	C/O Chandler	Well No.	8-1	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Sathwire #8	Bottom Stage		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job	DV 200			Charge To	Bickle Energies
Hole Size	7 7/8	T.D.	4640'	Street	
Csg.	5 1/2 15.00	Depth	4636	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool	DV Tool	Depth	2358	Cement Amount Ordered	175 10/Salt 5 1/2 G. / Granite
Cement Left in Csg.	32.37	Shoe Joint	32.37	22 KCL Seal media	
Meas Line		Displace	107 BL		

**EQUIPMENT**

Pumptrk	18	No.	Cementer	Shane
			Helper	Chris
Bulktrk		No.	Driver	
Bulktrk	14	No.	Driver	Doug

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

**JOB SERVICES & REMARKS**

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

5 1/2 set @ 4636 Baffle @ 4603. For Conductor. Cement seal mud clear @ 28 BL. Spack.

Cement 5 1/2 with 175SK.

Clear lines & Displace plug.

Dwg. landed @ 1400ft

Release pressure 2 1/2 c

Circulate 3 Hours

**FLOAT EQUIPMENT**

Guide Shoe	1 DV Tool
Centralizer	1 Turbels (11)
Baskets	3 Red
AFU Inserts	30 Scratchers
Float Shoe	1
Latch Down	1

Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature *[Handwritten Signature]*

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1530

Date	4-1-16	Sec.	8	Twp.	14	Range	31	County	Coal	State	KS	On Location		Finish	1:30 pm
Lease								Well No.		Owner					
Contractor								8-1		To Quality Oilwell Cementing, Inc.					
Type Job										You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Hole Size								T.D.		Charge To					
Csg.								Depth		Street					
Tbg. Size								Depth		City					
Tool								Depth		State					
Cement Left in Csg.								Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line								Displace		Cement Amount Ordered					
								EQUIPMENT		Common					
Pumptrk								No. Cementer		Poz. Mix					
Bulktrk								No. Driver		Gel.					
Bulktrk								No. Driver		Calcium					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
Plug Rathole								Handling							
Clean Cement Div Tool								Mileage							
Displace Plug								FLOAT EQUIPMENT							
Cement 5 1/2 with 3 1/2 SK								Guide Shoe							
Displace Plug Cement Circulated								Centralizer							
Plug lance @ 1500'								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
Signature								Total Charge							