



Confidentiality Requested:

Yes  No

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

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

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

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

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

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

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

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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
- Geologist Report 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. 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  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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

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

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

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <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

<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 <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	K3 Oil & Gas Operating Company
Well Name	Black 4-7
Doc ID	1309778

All Electric Logs Run

Dual Induction Gamma Ray
BHC sonic
Comp Neutron Litho
Micro

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Well Name	Black 4-7
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Tops

Name	Top	Datum
An	1850	1150
Hb	3946	-946
Lan	3987	-987
Stk	4267	-1267
Marm	4404	-1404
Pawnee	4488	-1488
Ft Scott	4511	-1511
Cher	4524	1524
Johnson	4594	-1594
Miss	4681	-1681
St Louis	4708	-1708



# *Brett's Consulting Service*

Completions – Workovers – General Systems Setup

Brett Hildebrand 1104 Nixon Dr. Norton, Ks. 67654  
Cell. - 785- 871- 7311  
Office: 785- 877- 5331

**Directions: Healy, W. on HWY. 4 to Navaho Rd., 1 N., ½ E., S. into**

8/25/15

Black #4-7 - Figured pipe tally - Duke Drilling Rig #4 ran 112 jts. new MW 55,LS 5 ½", 15.5# csg. - tagged bttm. @4810' - RTD = 4810', LTD = 4809' - landed guide shoe @4808' w/ insert @4765', DV @2312' - circ. f/ 1.5 hrs. w/ good circ. - RU Allied Cementing - pumped 500 gal. mud flush & 20 bbl. KCL wtr. - started cmt., pumped 175 sxs. ASC, 2% gel, 10% salt, 5# gilsonite - start dis. & plug w/ 60 bbl. wtr. & 52 bbl. mud, landed plug @10:00 p.m. w/ 1500#, 1000# lift & held - dropped opening tool - opened DV w/ 600# & circ. f/ 1 hr. w/ good circ. - plugged rat hole w/ 30 sxs. - started top stage - mixed & pumped 270 sxs. AMD w/ ¼# floseal - started plug & dis. w/ 52 bbl. wtr. & landed plug @12:00 a.m. w/ 2,000# & held - cement to surface - RD Allied, landed in slips & released rig.

RTD: 4810', LTD: 4809'

Csg: 5 ½", 15.5# set @4809' w/ 175 sxs. ASC 10% salt, 5# gilsonite & 2% gel.

Guide Shoe: 4808', Shoe Jt. = 42.47' w/ insert @4765'

DV Tool: @2312' w/ 270 sxs. AMD w/ ¼# flow seal, cement to sur.

Turbolizers: 4765', 4678', 4592', 4506', 4420', 4334', 4248', 4162', 4076', 3990' & 2354'

Baskets: 3820', 2354' & 826'

3/08/16

Black #4-7 - MIRU Alliance Well Serv. - Central Supply delivered tbg. & unloaded tbg. - TIH w/ used 4 7/8" rock bit & bit sub - tagged @2306', DV @2312' - RU Advanced pump & swivel - cleaned out to DV & drilled out DV in 2.5 hrs. - reamed out w/ bit, but tbg. collars bumping on way through - circ. 20 min. & RD swivel - ran bit to 4755' & hit BS - RU swivel & cleaned out to TD @4765' - circ. 1 hr. & RD swivel - TOH w/ bit & sub, stopping @ DV & reamed several times - ordered mill in a.m. & left pump & swivel on location - SDON. Est. Cost = \$4,500

3/09/16

Black #4-7 - TIH w/ 4 15/16" tapered mill & tagged @2312' - RU pump & swivel, got circ. & milled f/ 6 hrs. making 2' - mill worn out, TOH w/ mill - TIH w/ 4 7/8" tapered mill - RU swivel & milled out remainder of DV tool in 45 min. - RD swivel & TOH w/ mill - TIH w/ RBP & PKR - made it through DV w/ no trouble - RD pump & swivel - TOH w/ tools & SDON. 2 Day Cost = \$12,900

3/10/16

Black #4-7 - RU Perf Tech to run CBL & CCL, LTD @4762', TOC @3020' & DV @2312' - RU csg. swab & swabbed down to 3800' FS in 2 hrs. - RD swab & RU to perf. St. Louis @4712-17', Morrow Sand @4662-70' & LKC "E" 4081-89', 4" HEC @ 4spf w/ 39 gr. charges - TIH w/ tools to iso. St. Louis, PKR @4691' - ran swab FL @2850', 1,000' fill f/ csg. swabbing FL & had 400' oil on top - swabbed dry, let set 20 min. & was dry - RU Pro Stim to spot 13.25 bbl. - let equal. & set PKR to treat w/ 250 gal. 15% MCA w/ added claystay & DMO - acid on bttm. = tbg. loaded 1/2 bbl. over - press. to 200# w/ slight bleed off - 15 min. = 300#, sbo - staged to 700# max over 1 hr., 15 min. then started feeding @ 1/4 BPM, 300# - w/ 2 bbl. out = 1/4 BPM, 70# - w/ 4 out = 1/4 BPM, 100# - w/ 6 out = 1/4 BPM, 130# - ISIP = 100#, 5 min. = 0 - let set 15 min., FL @50' FS, swabbed dry in 7 runs, rec. 30.16 of 33.81 bbl. load, no show of oil - let set 15 min. & was dry - SDON. 3 day cost = \$22,250

3/11/16

Black #4-7 - St. Louis 4712-17', PKR @4691' - ran swab, 375' FIH, all acid water - cleared acid off ann., reset PKR & swabbed down. - RU Pro Stim to retreat w/ 1,000 gal. 15% NE-FE w/ claystay - acid on bttm. = 3 BPM, vac. - w/ 2 out = loaded, started pumping @1 BPM, 80# - w/ 4 out = 1 BPM, 120#, incr. to 2 BPM, 200# - w/ 10 out = 2 BPM, 170#, incr. to 3 BPM, 320# - w/ 17 out = 3 BPM, 320# - w/ 24 out = 3 BPM, 340# - over flushed w/ 1 bbl. - ISIP = 200#, 5 min. = 50#, 9 min. = vac. - let set 30 min., ran swab FL @300' FS - swabbed dry, rec. 30.16 of 52.81 load, all acid wtr. - moved tools to iso. Morrow Sand 4662-70', PKR @4626' & RBP @4696' - swab down to 50' FIH in 2 runs - let set f/ 1 hr. & had 800' FIH, all clean wtr. - moved tools to iso. LKC "E" 4081-89', PKR @4040' & RBP @4113' - ran swab & swabbed down to 200' FIH in 2 runs - let set f/ 30 min. & had 600' FIH, all oil - SDOWE. 4 Day Cost = \$27,060

3/14/16

Black #4-7 - "E" 4081-89', PKR @4040' - ran swab FL @1700' FS, 2340' FIH, all oil - swab dwn. to 200' FIH in 3 runs - RU Pro Stim to spot 9.8 bbl. - let equal. & set PKR to treat w/ 250 gal. 15% MCA - acid on bttm. = .60 BPM, vac. - w/ 2 out = .51 BPM, vac. - w/ 4 out = .55 BPM, vac. - w/ 6 out = .46 BPM, vac. - let set 30 min., ran swab FL @400' FS - swab dwn. to 300' FIH, rec. 34.22 BTF, 3.5 bbl. over load w/ 95% oil - start test:

1<sup>st</sup> hr. @4pph rec. 14.50 BTF, 450' FIH w/ 95% oil

2<sup>nd</sup> hr. @4pph rec. 8.70 BTF, 350' FIH w/ 95% oil

3<sup>rd</sup> hr. @4pph rec. 7.54 BTF, 300' FIH w/ 95% oil

4<sup>th</sup> hr. @4pph rec. 8.70 BTF, 350' FIH w/ 95% oil - cleared acid off ann., reset PKR & swabbed back dwn. - SDON. 5 Day Cost = \$30,560

3/15/16

Black #4-7 - "E" 4081-89', PKR @4040' - ran swab FL @2400' FS, 1640' FIH, all oil - RU Pro Stim to retreat w/ 1,000 gal. 15% NE-FE w/ 2% musol - acid on bttm. = .87 BPM, vac. - w/ 6 out = .87 BPM, vac., incr. to 1.5 BPM, 230# - w/ 8 out = 1.5 BPM, 420#, decr. to 1.25 BPM, 380# - w/ 12 out = 1.3 BPM, 450#, decr. to 1 BPM, 300# - w/ 15 out = 1 BPM, 90#, incr. to 1.5 BPM, 160# - w/ 24 out = 1.5 BPM, 470# - ISIP = 450#, 1.3 min. = vac. - let set 30 min. FL @700' FS - swab dwn. to 650' FIH, rec. 43 of 48.5 bbl. load w/ 90% oil - start test:

1<sup>st</sup> hr. @4pph rec. 16.24 BTF, 500' FIH w/ 92% oil

2<sup>nd</sup> hr. @4pph rec. 11.6 BTF, 500' FIH w/ 92% oil

3<sup>rd</sup> hr. @4pph rec. 8.12 BTF, 400' FIH w/ 92% oil

4<sup>th</sup> hr. @4pph rec. 5.80 BTF, 350' FIH w/ 94% oil

5<sup>th</sup> hr. @4pph rec. 6.96 BTF, 350' FIH w/ 94% oil - SDON. 6 Day Cost = \$35,190

3/16/16

Black #4-7 - Got onto RBP & TOH w/ tools - RU Perf Tech to set CIBP @4648' - Rd Perf Tech & RO prod. head - TIH w/ 2 7/8" x 3' perf. sub @4632', SN @4629', 2 jts., 5 1/2" x 2 1/2" x 3' AC @4564' & 140 jts. 2 7/8" 8rd EUE tbg., total of 142 jts. = 4626' - set AC w/ 15,000# over & landed tbg. - RO f/ rods - TIH w/ 2 1/2" x 1 1/2" x 12' RWT pump, 2' x 3/4" sub, 183 x 3/4" rods, 8', 6', 4' & 2' subs, 1 1/4" x 16' PR w/ 7' liner - spaced out pump & clamped off - built wellhead & RDMO. 7 Day Cost = \$41,505



## Summary of Changes

Lease Name and Number: Black 4-7

API/Permit #: 15-171-21121-00-00

Doc ID: 1309778

Correction Number: 2

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	03/23/2016	06/20/2016
Class of Completion	NewWell	Workover
Convert To Producer	No	Yes
If OWWO - Original Total Depth		4809
If OWWO - Original Well Name		Black 4-7
If OWWO - Original Well Operator Name		K3 Oil & Gas Operating
Original Well Completion Date		08/25/2015
Perf_Depth_3	4662 - 4670	
Perf_Material_1	250 gal 15% MCA	250 gal 15% MCA w/add claystay & DMO acid on bottom; 1000g
Perf_Material_2	250 gal 15 % MCA	no treatment

Summary of changes for correction 2 continued

Field Name	Previous Value	New Value
Perf_Material_3	250 gal MCA claystay & DMO, 1000 gal 15% NEFE claystay	
Perf_Material_4	250 gal 15% MCA, 1000 gal 15% NEFE 2% musil	250 gal 15% MCA, 1000 gal 15% NEFE 2% musol
Perf_Record_1	4712 - 4017	St. Louis 4712 - 4017
Perf_Record_2	4662 - 4670	Morrow 4662 - 4670
Perf_Record_3	4662 - 4670	
Perf_Record_4	4081 - 4089	Lansing E 4081 - 4089
Perf_Shots_3	4	
Plug Back Total Depth		4648
Production - Barrels Oil	105	40
Production - Oil Gravity	36	28
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1299121	../../../../kcc/detail/operatorEditDetail.cfm?docID=1309778
Temporarily Abandoned	Yes	No
Tubing Packer At		4632

Summary of changes for correction 2 continued

Field Name	Previous Value	New Value
Tubing Set At	8 rd EUE 4620	4620
Wellsite Geologist	Bett Hildebrand	Tom Williams

## Summary of Attachments

Lease Name and Number: Black 4-7

API: 15-171-21121-00-00

Doc ID: 1309778

Correction Number: 2

Attachment Name

Completion Report



Confidentiality Requested:

Yes  No

# CONFIDENTIAL WELL COMPLETION FORM

## WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

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

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

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

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

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

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

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

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Date: \_\_\_\_\_
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- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1262620  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

**CONFIDENTIAL** WELL COMPLETION FORM  
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- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

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

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(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27     NAD83     WGS84

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

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

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

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

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

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

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*(Data must be collected from the Reserve Pit)*

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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
- Geologist Report 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. 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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	K3 Oil & Gas Operating Company
Well Name	Black 4-7
Doc ID	1262620

All Electric Logs Run

Dual Induction Gamma Ray
BHC sonic
Comp Neutron Litho
Micro



Form	ACO1 - Well Completion
Operator	K3 Oil & Gas Operating Company
Well Name	Black 4-7
Doc ID	1262620

Tops

Name	Top	Datum
An	1850	1150
Hb	3946	-946
Lan	3987	-987
Stk	4267	-1267
Marm	4404	-1404
Pawnee	4488	-1488
Ft Scott	4511	-1511
Cher	4524	1524
Johnson	4594	-1594
Miss	4681	-1681
St Louis	4708	-1708



TDOLPUSHER WELL DATA SHEET

RIG # 4

Trucking companies used to move Rig in: Duke

Saturday

OPERATOR: K3 oil and Gas  
WELL NAME: Loc Black  
SPOT LOC.: NE-SW-SW-NE  
COUNTY: Scott Co Kansas

SPUD: @ 1:15 PM 8-15-15  
(Date & Time)

CASINGS: CONDUCTOR -Set jts. ( )  
" x # @ ' w/ SX

\* ELEVATIONS: 2649 GL 2658 KB  
GEOLOGIST: Tom Williams

PLUG DOWN: \_\_\_\_\_ DATE: \_\_\_\_\_  
CEMENT COMPANY: \_\_\_\_\_  
SET BY: \_\_\_\_\_

WATER INFORMATION

Owe \$ \_\_\_\_\_ To: \_\_\_\_\_  
Address: K3 oil and Gas made  
The Deal For Water  
Soc. Sec. # \_\_\_\_\_

SURFACE - Set 6 jts. ( 252 )  
8 5/8 " x 23 # @ 264 ' w/ 175 SX  
Common 3% C.C. 2% Gel

POND \_\_\_\_\_ WELL \_\_\_\_\_ HAUL yes  
Location: ?  
(legal from SE corner if you have it)

PLUG DOWN: 7:00 PM DATE: 8-15-15  
PIPE HAULED BY: Midwest Pipe  
CEMENT COMPANY: Allied

Pit Uliner From Walker Tank Service  
Pump/Line From Duke  
Hauled by Walker Tank Service  
Hauled From: \_\_\_\_\_  
Water Well By \_\_\_\_\_

C.M.  
1 HRS  
Between  
Stages  
ASC Bottom Stage

PRODUCTION - Set 112 jts. ( 4809 )  
5 1/2 " x 15.5 # @ 4809 w/ 175 SX  
DVite Top Stage w/ 300 SKS Lite  
2000 PLUG DOWN: 12:00 AM DATE: 8-25-15  
CEMENT COMPANY: Allied  
CASING COMPANY: Murray

SAMPLE BAGS USED: Two Boxes

DATE REACHED RTD 8-23-15  
RTD 4810 LTD 4809

DIRT WORK: yes Steel Pits \_\_\_\_\_  
Dozer: Flatlander  
Cellar/Runaround: Flatlander  
Dozer to Help Move IN yes OUT \_\_\_\_\_  
Whose: \_\_\_\_\_

STATE AGENT: \_\_\_\_\_  
DATE CALLED: \_\_\_\_\_  
1st Plug \_\_\_\_\_ SX @ \_\_\_\_\_  
2nd Plug \_\_\_\_\_ SX @ \_\_\_\_\_  
3rd Plug \_\_\_\_\_ SX @ \_\_\_\_\_  
4th Plug \_\_\_\_\_ SX @ \_\_\_\_\_  
5th Plug \_\_\_\_\_ SX @ \_\_\_\_\_

Rathole w/ 30 SX Mousehole w/ \_\_\_\_\_ SX

ANHYDRITE: 2351-2376  
WELDER: Fritzler  
MUD COMPANY: \_\_\_\_\_  
MUD LOGGER: \_\_\_\_\_  
TESTER: TriLobite  
LOGGER: Recon  
FRAC TANK: Honas

CEMENT TYPE: \_\_\_\_\_  
Time plugging started: \_\_\_\_\_  
PLUG DOWN: \_\_\_\_\_ DATE: \_\_\_\_\_  
CEMENT COMPANY: \_\_\_\_\_  
FLUIDS HAULED OFF BY: \_\_\_\_\_  
USED: 4261 gal. @ \$ \_\_\_\_\_



## DRILL STEM TEST REPORT

Prepared For: **K3 Oil**

211 Highland Cross  
Houston, TX 77073

ATTN: Tom Williams

**Black #4-7**

**4-17s-32w Scott,KS**

Start Date: 2015.08.20 @ 12:03:03

End Date: 2015.08.20 @ 18:12:03

Job Ticket #: 61745                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.08.25 @ 08:45:50

K3 Oil  
4-17s-32w Scott,KS  
Black #4-7  
DST # 1  
LKC E Lime  
2015.08.20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

K3 Oil  
211 Highland Cross  
Houston, TX 77073  
ATTN: Tom Williams

**4-17s-32w Scott,KS**  
**Black #4-7**  
Job Ticket: 61745      **DST#: 1**  
Test Start: 2015.08.20 @ 12:03:03

## GENERAL INFORMATION:

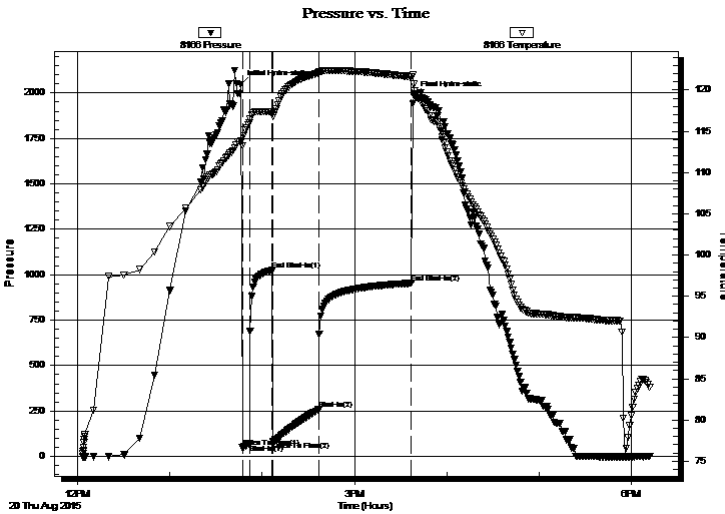
Formation: **LKC E Lime**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:47:03  
Time Test Ended: 18:12:03  
Interval: **4072.00 ft (KB) To 4091.00 ft (KB) (TVD)**  
Total Depth: 4091.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Brandon Turley  
Unit No: 79  
Reference Elevations: 3000.00 ft (KB)  
2991.00 ft (CF)  
KB to GR/CF: 9.00 ft

## Serial #: 8166 Outside

Press@RunDepth: 257.24 psig @ 4073.00 ft (KB)  
Start Date: 2015.08.20 End Date: 2015.08.20  
Start Time: 12:03:08 End Time: 18:12:02  
Capacity: 8000.00 psig  
Last Calib.: 2015.08.20  
Time On Btm: 2015.08.20 @ 13:46:03  
Time Off Btm: 2015.08.20 @ 15:38:33

TEST COMMENT: IF: BOB in 3 min.  
IS: Surface blow built to 1 1/2"  
FF: BOB in 4 min.  
FS: Surface blow built to 2 1/2"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.22	113.81	Initial Hydro-static
1	47.83	113.23	Open To Flow (1)
6	69.10	116.02	Shut-In(1)
21	1023.78	117.36	End Shut-In(1)
21	84.17	116.85	Open To Flow (2)
51	257.24	122.05	Shut-In(2)
111	952.89	121.61	End Shut-In(2)
113	1983.97	120.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcgo 20%g 60%o 20%m	1.74
516.00	go 20%g 80%o	7.24
0.00	166 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

K3 Oil  
211 Highland Cross  
Houston, TX 77073  
ATTN: Tom Williams

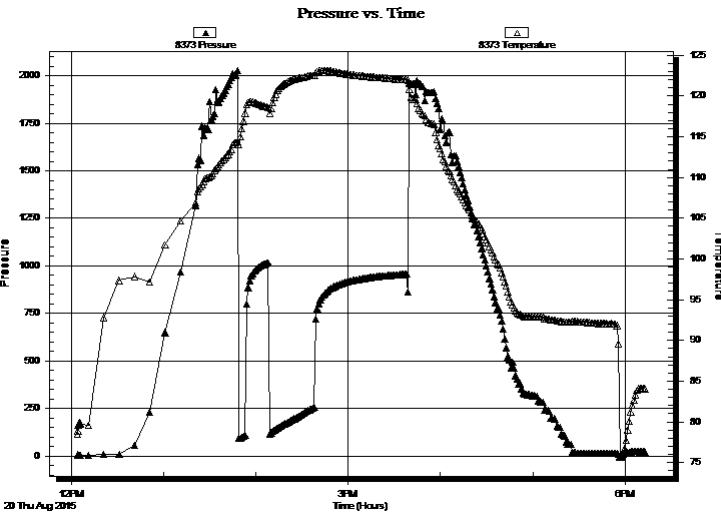
**4-17s-32w Scott, KS**  
**Black #4-7**  
Job Ticket: 61745      **DST#: 1**  
Test Start: 2015.08.20 @ 12:03:03

**GENERAL INFORMATION:**

Formation: **LKC E Lime**  
Deviated: No Whipstock: ft (KB)  
Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 13:47:03      Tester: Brandon Turley  
Time Test Ended: 18:12:03      Unit No: 79  
Interval: **4072.00 ft (KB) To 4091.00 ft (KB) (TVD)**      Reference Elevations: 3000.00 ft (KB)  
Total Depth: 4091.00 ft (KB) (TVD)      2991.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 9.00 ft

**Serial #: 8373      Inside**  
Press@RunDepth: psig @ 4073.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.08.20      End Date: 2015.08.20      Last Calib.: 2015.08.20  
Start Time: 12:03:54      End Time: 18:12:48      Time On Btm:  
Time Off Btm:

TEST COMMENT: IF: BOB in 3 min.  
IS: Surface blow built to 1 1/2"  
FF: BOB in 4 min.  
FS: Surface blow built to 2 1/2"



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
124.00	mcgo 20%g 60%o 20%m	1.74
516.00	go 20%g 80%o	7.24
0.00	166 GIP	0.00

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K3 Oil  
211 Highland Cross  
Houston, TX 77073  
ATTN: Tom Williams

**4-17s-32w Scott,KS**  
**Black #4-7**  
Job Ticket: 61745      **DST#: 1**  
Test Start: 2015.08.20 @ 12:03:03

**Tool Information**

Drill Pipe:	Length: 4065.00 ft	Diameter: 3.80 inches	Volume: 57.02 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 57.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4072.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4046.00	
Shut In Tool	5.00			4051.00	
Hydraulic tool	5.00			4056.00	
Jars	5.00			4061.00	
Safety Joint	2.00			4063.00	
Packer	5.00			4068.00	27.00      Bottom Of Top Packer
Packer	4.00			4072.00	
Stubb	1.00			4073.00	
Recorder	0.00	8373	Inside	4073.00	
Recorder	0.00	8166	Outside	4073.00	
Perforations	13.00			4086.00	
Bullnose	5.00			4091.00	19.00      Bottom Packers & Anchor

**Total Tool Length: 46.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K3 Oil  
211 Highland Cross  
Houston, TX 77073  
ATTN: Tom Williams

**4-17s-32w Scott,KS**  
**Black #4-7**  
Job Ticket: 61745      **DST#: 1**  
Test Start: 2015.08.20 @ 12:03:03

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 28 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1600.00 ppm		
Filter Cake: 1.00 inches		

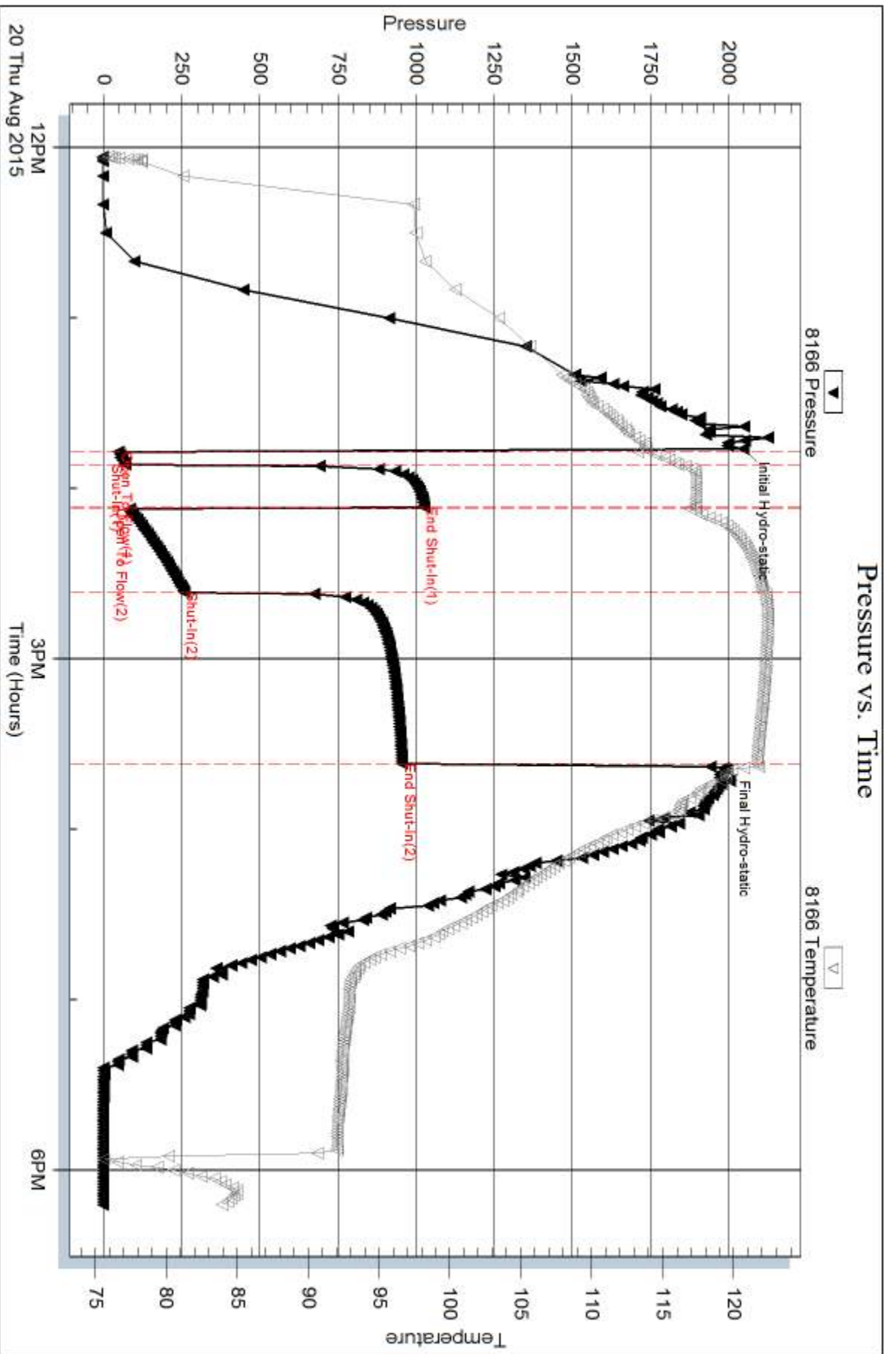
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcgo 20%g 60%o 20%m	1.739
516.00	go 20%g 80%o	7.238
0.00	166 GIP	0.000

Total Length: 640.00 ft      Total Volume: 8.977 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: 31@90=28



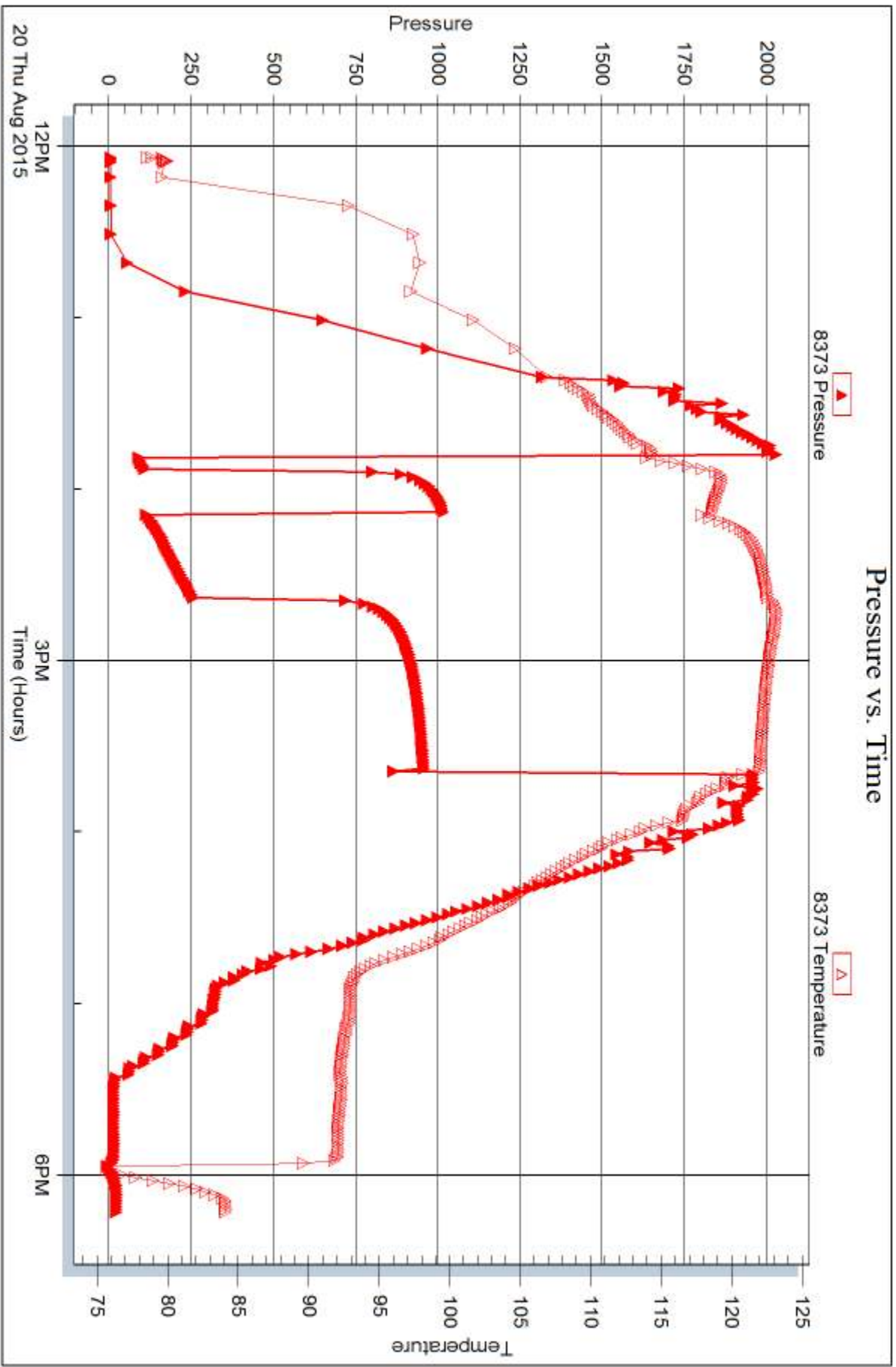


Serial #: 8373

Inside K3 Oil

Block #4-7

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **K3 Oil**

211 Highland Cross  
Houston, TX 77073

ATTN: Tom Williams

**Black #4-7**

**4-17s-32w Scott,KS**

Start Date: 2015.08.21 @ 16:45:36

End Date: 2015.08.21 @ 23:37:36

Job Ticket #: 61746                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.08.25 @ 08:45:16

K3 Oil  
4-17s-32w Scott,KS  
Black #4-7  
DST # 2  
LKC K Lime  
2015.08.21



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

K3 Oil  
211 Highland Cross  
Houston, TX 77073  
ATTN: Tom Williams

**4-17s-32w Scott,KS**  
**Black #4-7**  
Job Ticket: 61746      **DST#: 2**  
Test Start: 2015.08.21 @ 16:45:36

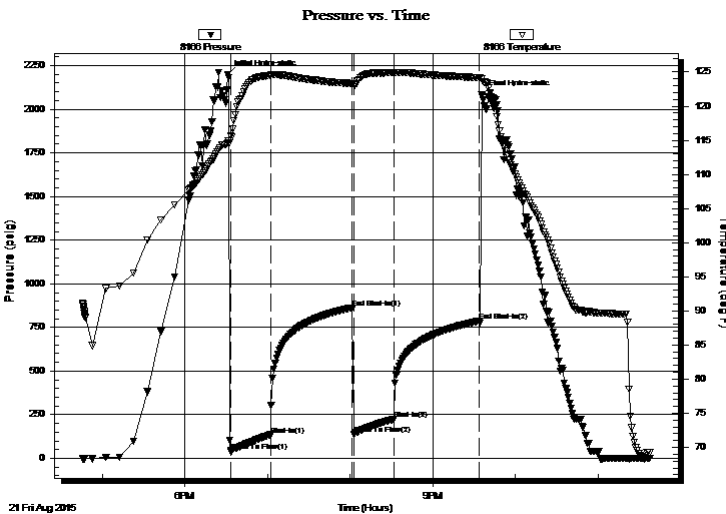
## GENERAL INFORMATION:

Formation: **LKC K Lime**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:33:06  
Time Test Ended: 23:37:36  
Interval: **4267.00 ft (KB) To 4294.00 ft (KB) (TVD)**  
Total Depth: 4294.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 79  
Reference Elevations: 3000.00 ft (KB)  
2991.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8166      Outside**  
Press@RunDepth: 223.11 psig @ 4268.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.08.21      End Date: 2015.08.21      Last Calib.: 2015.08.21  
Start Time: 16:45:41      End Time: 23:37:35      Time On Btm: 2015.08.21 @ 18:31:06  
Time Off Btm: 2015.08.21 @ 21:35:36

**TEST COMMENT:** IF: 1/4" blow BOB in 10 min.  
IS: No return.  
FF: Surface blow BOB in 17 min.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.53	114.62	Initial Hydro-static
2	41.77	115.61	Open To Flow (1)
31	135.33	124.52	Shut-In(1)
91	863.15	123.32	End Shut-In(1)
92	140.28	123.07	Open To Flow (2)
121	223.11	124.87	Shut-In(2)
183	788.44	124.18	End Shut-In(2)
185	2081.79	123.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
217.00	w cm 30%w 70%m	3.04
124.00	mcw 75%w 25%m	1.74
124.00	mcw 95%w 5%m	1.74

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

K3 Oil  
 211 Highland Cross  
 Houston, TX 77073  
 ATTN: Tom Williams

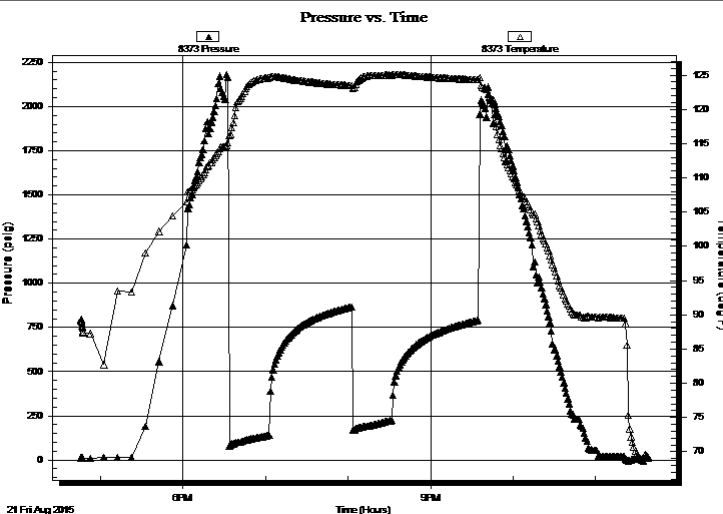
**4-17s-32w Scott,KS**  
**Black #4-7**  
 Job Ticket: 61746 **DST#: 2**  
 Test Start: 2015.08.21 @ 16:45:36

**GENERAL INFORMATION:**

Formation: **LKC K Lime**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 18:33:06 Tester: Brandon Turley  
 Time Test Ended: 23:37:36 Unit No: 79  
**Interval: 4267.00 ft (KB) To 4294.00 ft (KB) (TVD)** Reference Elevations: 3000.00 ft (KB)  
 Total Depth: 4294.00 ft (KB) (TVD) 2991.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

**Serial #: 8373** **Inside**  
 Press@RunDepth: psig @ 4268.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.08.21 End Date: 2015.08.21 Last Calib.: 2015.08.21  
 Start Time: 16:45:44 End Time: 23:38:08 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: 1/4" blow BOB in 10 min.  
 IS: No return.  
 FF: Surface blow BOB in 17 min.  
 FS: No return.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
217.00	w cm 30%w 70%m	3.04
124.00	mcw 75%w 25%m	1.74
124.00	mcw 95%w 5%m	1.74

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K3 Oil  
211 Highland Cross  
Houston, TX 77073  
ATTN: Tom Williams

**4-17s-32w Scott,KS**  
**Black #4-7**  
Job Ticket: 61746      **DST#: 2**  
Test Start: 2015.08.21 @ 16:45:36

**Tool Information**

Drill Pipe:	Length: 4250.00 ft	Diameter: 3.80 inches	Volume: 59.62 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 59.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	4267.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	54.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4241.00	
Shut In Tool	5.00			4246.00	
Hydraulic tool	5.00			4251.00	
Jars	5.00			4256.00	
Safety Joint	2.00			4258.00	
Packer	5.00			4263.00	27.00      Bottom Of Top Packer
Packer	4.00			4267.00	
Stubb	1.00			4268.00	
Recorder	0.00	8373	Inside	4268.00	
Recorder	0.00	8166	Outside	4268.00	
Perforations	21.00			4289.00	
Bullnose	5.00			4294.00	27.00      Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K3 Oil

**4-17s-32w Scott,KS**

211 Highland Cross  
Houston, TX 77073

**Black #4-7**

Job Ticket: 61746

**DST#: 2**

ATTN: Tom Williams

Test Start: 2015.08.21 @ 16:45:36

### 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:

23500 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
217.00	w cm 30%w 70%m	3.044
124.00	mcw 75%w 25%m	1.739
124.00	mcw 95%w 5%m	1.739

Total Length: 465.00 ft      Total Volume: 6.522 bbl

Num Fluid Samples: 0

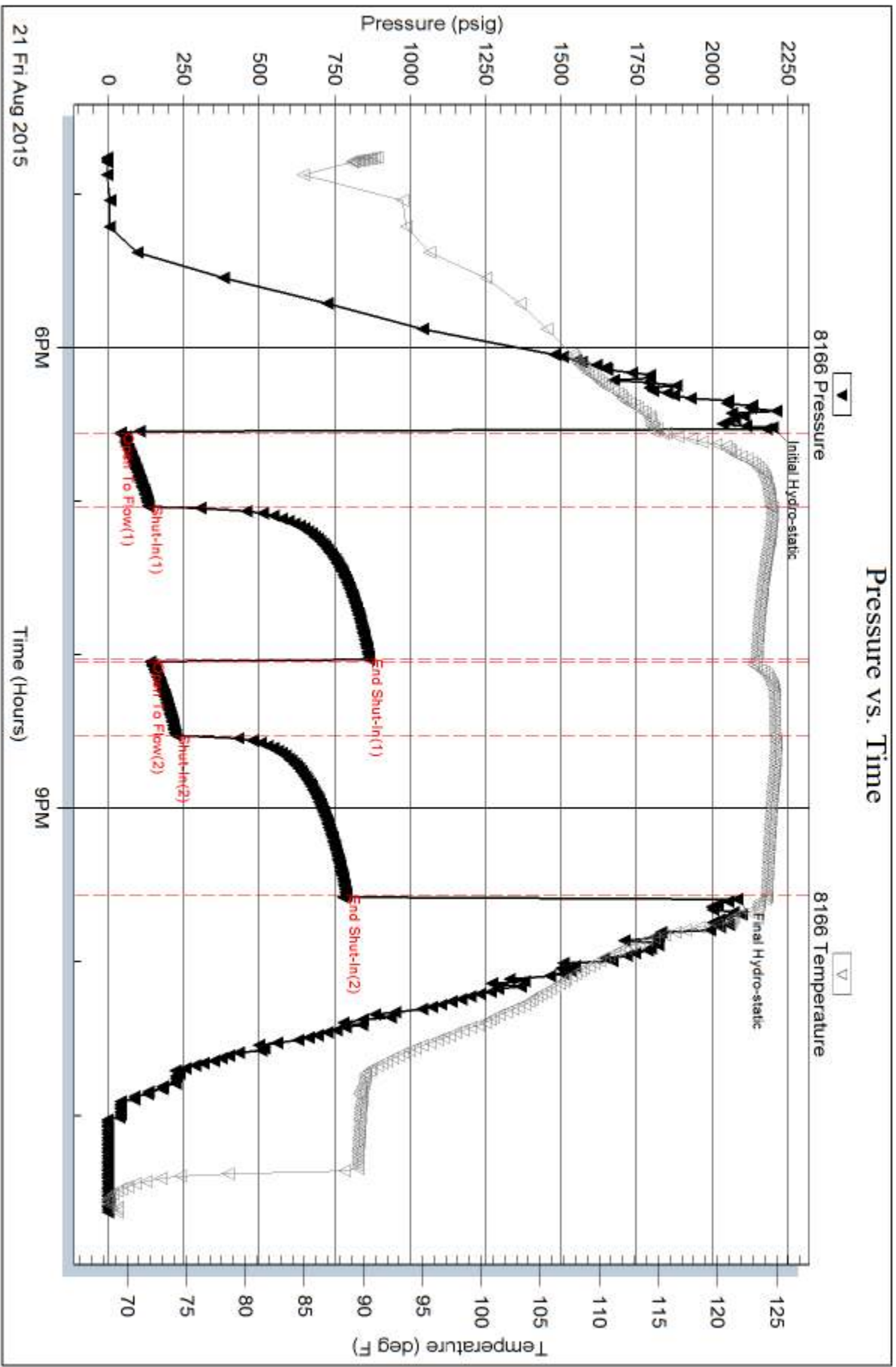
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .29@72=23500





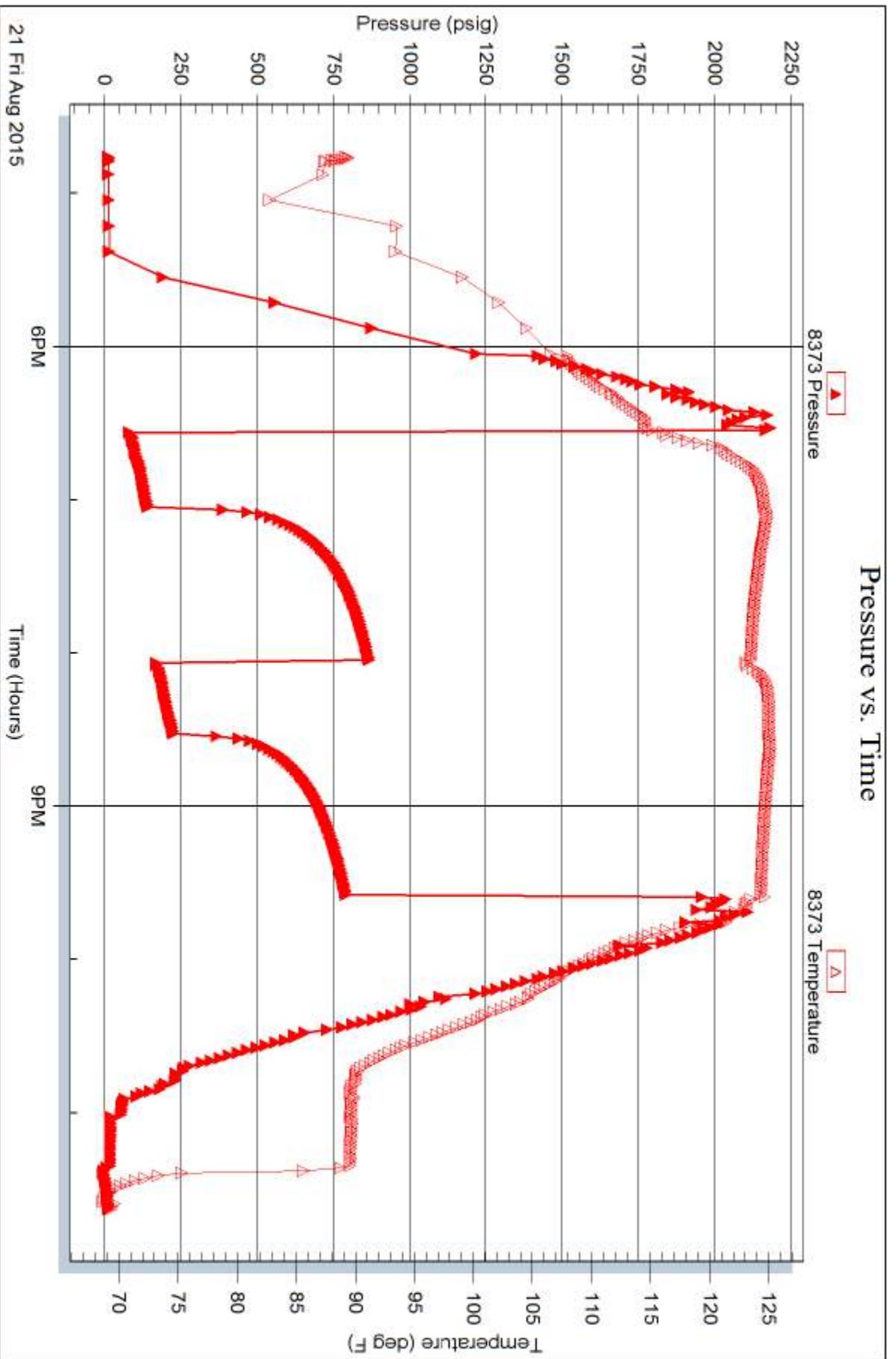
Serial #: 8373

Inside

K3 Oil

Black #4-7

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61746

Printed: 2015.08.25 @ 08:45:18



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61745

Well Name & No. Black 4-7 Test No. 1 Date 8-20-15  
 Company K3 Oil Elevation 3000 KB 2991 GL  
 Address 211 Highland cross Houston, TX 77073  
 Co. Rep / Geo. Tom Williams Rig Duke 4  
 Location: Sec. 4 Twp. 17 Rge. 32W Co. Scott State KS

Interval Tested 4072 4091 Zone Tested Lansing E Lime  
 Anchor Length 19 Drill Pipe Run 4065 Mud Wt. 9.2  
 Top Packer Depth 4067 Drill Collars Run — Vis 52  
 Bottom Packer Depth 4072 Wt. Pipe Run — WL 7.2  
 Total Depth 4091 Chlorides 1600 ppm System LCM 2

Blow Description IF: BoB in 3 min.  
IS: surface blow built to 1 1/2.  
FB: BoB in 4 min.  
FS: surface blow built to 2 1/2.

Rec	Feet of	%gas	%oil	%water	%mud
<u>516</u>	<u>90</u>	<u>20</u>	<u>80</u>		
<u>124</u>	<u>Mcgo</u>	<u>20</u>	<u>60</u>		<u>20</u>
	<u>166 GIP</u>				

Rec Total 640 BHT 121 Gravity 28 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2046  Test 1150 T-On Location 11:10  
 (B) First Initial Flow 47  Jars 250 T-Started 12:03  
 (C) First Final Flow 69  Safety Joint 75 T-Open 13:47  
 (D) Initial Shut-In 1023  Circ Sub NIC T-Pulled 15:37  
 (E) Second Initial Flow 84  Hourly Standby \_\_\_\_\_ T-Out 18:15  
 (F) Second Final Flow 257  Mileage 32- Comments \_\_\_\_\_  
 (G) Final Shut-In 952  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1983  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 5  
 Initial Shut-In 15  
 Final Flow 30  
 Final Shut-In 60  
 Sub Total 1507  
 Total 1507  
 MP/DST Disc't \_\_\_\_\_

Approved By Tom Williams Our Representative [Signature]

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61746

Well Name & No. Block 4-7 Test No. 2 Date 8-21-15  
 Company K3 oil Elevation 3000 KB 2991 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Tom Williams Rig Duke 4  
 Location: Sec. 4 Twp. 17 Rge. 32W Co. Scott State KS

Interval Tested 4267 4294 Zone Tested LKC-K Lime  
 Anchor Length 27 Drill Pipe Run 4250 Mud Wt. 9.3  
 Top Packer Depth 4262 Drill Collars Run — Vis 55  
 Bottom Packer Depth 4267 Wt. Pipe Run — WL 8.0  
 Total Depth 4294 Chlorides 1800 ppm System LCM 1  
 Blow Description IF: 1/4 blow BoB in 10 min.  
FS! No return,  
IF! Surface blow BoB in 17 min.  
FS! No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>217</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>124</u>	<u>MCW</u>		<u>75</u>	<u>25</u>	
<u>124</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 465 BHT 124 Gravity — API RW 129 @ 72° F Chlorides 23500 ppm  
 (A) Initial Hydrostatic 2199  Test 1150 T-On Location 16:30  
 (B) First Initial Flow 41  Jars 250 T-Started 16:45  
 (C) First Final Flow 135  Safety Joint 75 T-Open 18:32  
 (D) Initial Shut-In 863  Circ Sub NIL T-Pulled 21:32  
 (E) Second Initial Flow 140  Hourly Standby T-Out 23:40  
 (F) Second Final Flow 223  Mileage 32x2 +32 Comments logged 4:20 PM  
 (G) Final Shut-In 788  Sampler on 8-23-15  
 (H) Final Hydrostatic 2081  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies  
 Initial Open 30  Extra Recorder Sub Total 800  
 Initial Shut-In 60  Day Standby 1.5d 4.75h Total 2339  
 Final Flow 30  Accessibility MP/DST Disc't  
 Final Shut-In 60  Sub Total 1539

Approved By Tom Williams

Our Representative [Signature]

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