



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1201502  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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       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: \_\_\_\_\_

1201502

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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:  Flowing  Pumping  Gas Lift  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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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# ALLIED OIL & GAS SERVICES, LLC 062596

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Wellby Ky

DATE <u>3/27/14</u>	SEC <u>36</u>	TWP. <u>9</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00 AM</u>	JOB FINISH <u>3:30 PM</u>
LEASE <u>Oil Basis</u>	WELL # <u>3-30</u>	LOCATION <u>Quintel E to 28 N 70 100</u>			COUNTY <u>Shelby</u>	STATE <u>KY</u>	
OLD OR NEW (Circle one) <u>NEW</u>				E o No E into			

CONTRACTOR <u>Hall J</u>	OWNER <u>Sone</u>
TYPE OF JOB <u>Prod Top Stage</u>	CEMENT
HOLE SIZE <u>T.D.</u>	AMOUNT ORDERED <u>450 SIL ALW</u>
CASING SIZE <u>DEPTH</u>	<u>14 Flo Seal</u>
TUBING SIZE <u>DEPTH</u>	<u>12 BBL WFR II</u>
DRILL PIPE <u>DEPTH</u>	<u>1 gal Chlor Pro</u>
TOOL <u>DV</u> DEPTH <u>2239</u>	COMMON _____ @ _____
PRES. MAX _____ MINIMUM _____	POZMIX _____ @ _____
MEAS. LINE _____ SHOE JOINT _____	GEL _____ @ _____
CEMENT LEFT IN CSG. _____	CHLORIDE _____ @ _____
PERFS. _____	<del>ALW</del> <u>450 SIL</u> @ <u>15.25</u> <u>7177.50</u>
DISPLACEMENT <u>54 BBL H<sub>2</sub>O</u>	<u>Flo Seal</u> <u>11316</u> @ <u>2.22</u> <u>335.64</u>
EQUIPMENT _____	<u>1 gal Chlor Pro</u> @ <u>34.40</u> <u>34.40</u>

PUMP TRUCK CEMENTER <u>Alan Ryan</u>
# <u>422201</u> HELPER <u>Kevin Ryan</u>
BULK TRUCK
# <u>018</u> DRIVER <u>Brandon Wilkinson</u>
BULK TRUCK
# <u>373</u> DRIVER <u>Thomas (TWS)</u>

MILEAGE <u>60</u> @ <u>20.95</u> <u>1257.00</u>	HANDLING <u>50.00</u> @ <u>2.50</u> <u>1250.00</u>
<u>20/mile</u> <u>20.95</u> <u>700</u> <u>2451.00</u>	TOTAL <u>11966.25</u>

REMARKS:  
12 BBL WFR II 12 BBL Pump 10 BBL HCL  
12 BBL 30 SIL RH, 20 SIL MH  
max 400 SIL ALW down 5112  
Wash Truck Displace Plug w/ 54  
BAL H<sub>2</sub>O w/ 550 RSLA FT.  
Travel Plug @ 2000  
Contract did accumulate

CHARGE TO: Culbreath  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DEPTH OF JOB _____	PUMP TRUCK CHARGE <u>2406.25</u>
EXTRA FOOTAGE _____ @ _____	MILEAGE _____ @ _____ <u>n/c</u>
MANIFOLD _____ @ _____ <u>n/c</u>	TOTAL <u>2406.25</u>

To: Allied Oil & Gas Services, 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 Pres. L. Deiling  
 SIGNATURE [Signature]

PLUG & FLOAT EQUIPMENT	TOTAL _____
SALES TAX (If Any) _____	TOTAL CHARGES <u>14,370.48</u>
DISCOUNT <u>3,305.67</u> IF PAID IN 30 DAYS	<u>11,066.81 Net.</u>



PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 142244

Invoice Date: Mar 26, 2014

Page: 1

Bill To:
Culbreath Oil & Gas Co., Inc. 1532 South Peoria Avenue Tulsa, OK 74120

Customer ID	Field Ticket #	Payment Terms	
Cul	62597	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Mar 26, 2014	4/25/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Dubois #3-36		
3.00	CEMENT MATERIALS	Gel	23.40	70.20
175.00	CEMENT MATERIALS	ASC	20.90	3,657.50
875.00	CEMENT MATERIALS	Gilsonite	0.98	857.50
18.00	CEMENT MATERIALS	Salt	26.35	474.30
12.00	CEMENT MATERIALS	WFR-II	58.70	704.40
1.00	CEMENT MATERIALS	KCL	34.40	34.40
224.96	CEMENT SERVICE	Cubic Feet Charge	2.48	557.90
440.10	CEMENT SERVICE	Ton Mileage Charge	2.60	1,144.26
1.00	CEMENT SERVICE	Production -- Bottom Stage	2,765.75	2,765.75
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	EQUIPMENT SALES	5-1/2 D V Tool	5,335.00	5,335.00
1.00	EQUIPMENT SALES	5-1/2 AFU Float Shoe	545.00	545.00
1.00	EQUIPMENT SALES	5-1/2 Latch Down Assembly	660.00	660.00
10.00	EQUIPMENT SALES	5-1/2 Centralizer	57.00	570.00
2.00	EQUIPMENT SALES	5-1/2 Basket	395.00	790.00
28.00	EQUIPMENT SALES	5-1/2 Scratchers	89.00	2,492.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
<b>TOTAL</b>	<b>Continued</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 2,549.71

ONLY IF PAID ON OR BEFORE  
Mar 26, 2014



PO Box 93999  
 Southlake, TX 76092

Voice: (817) 546-7282  
 Fax: (817) 246-3361

# INVOICE

Invoice Number: 142244  
 Invoice Date: Mar 26, 2014  
 Page: 2

Bill To:
Culbreath Oil & Gas Co., Inc. 1532 South Peoria Avenue Tulsa, OK 74120

Customer ID	Field Ticket #	Payment Terms	
Cul	62597	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Mar 26, 2014	4/25/14

Quantity	Item	Description	Unit Price	Amount
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

Subtotal	21,477.71
Sales Tax	1,319.51
Total Invoice Amount	22,797.22
Payment/Credit Applied	
<b>TOTAL</b>	<b>22,797.22</b>

ALL PRICES ARE NET, PAYABLE  
 30 DAYS FOLLOWING DATE OF  
 INVOICE. 1 1/2% CHARGED  
 THEREAFTER. IF ACCOUNT IS  
 CURRENT, TAKE DISCOUNT OF

\$ 2,549.71

ONLY IF PAID ON OR BEFORE  
**Mar 26, 2014**

# ALLIED OIL & GAS SERVICES, LLC 062597

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Dakley, Ky

DATE <u>3/26/14</u>	SEC. <u>30</u>	TWP. <u>9</u>	RANGE <u>26</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30</u>	JOB FINISH <u>10:30</u>
LEASE <u>Dubois</u>	WELL # <u>3-36</u>	LOCATION <u>Quentin E 2nd W to 78 N 70</u>				COUNTY <u>Sheridan</u>	STATE <u>KY</u>
OLD OR NEW (Circle one) <u>NEW</u>			RD 100 78 E N - Einto				

CONTRACTOR <u>Val J</u>	OWNER <u>Suma</u>
TYPE OF JOB <u>Prod</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4150</u>
CASING SIZE <u>5 7/8</u>	DEPTH <u>4150</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>OV</u>	DEPTH <u>2239</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>4 1/2</u>
CEMENT LEFT IN CSG.	<u>4 1/2</u>
PERFS.	
DISPLACEMENT <u>45 H<sub>2</sub>O 50 H<sub>2</sub>O MUD</u>	

CEMENT	AMOUNT ORDERED <u>175 ASC 1090 500</u>
	<u>270 gel 5# Gilsonite</u>
COMMON	@
POZMIX	@
GEL <u>3</u>	@ <u>23.40</u> <u>70.20</u>
CHLORIDE	@
ASC <u>175 5K</u>	@ <u>20.20</u> <u>3657.50</u>
<u>Gilsonite 875.16</u>	@ <u>.98</u> <u>857.50</u>
	@
<u>Salt 185K</u>	@ <u>26.35</u> <u>474.30</u>
	@
<u>WFR # 12002</u>	@ <u>58.22</u> <u>704.40</u>
	@
<u>KCL</u>	@ <u>34.40</u> <u>34.40</u>
	@
<u>HANDLING 224.20</u>	@ <u>2.48</u> <u>557.90</u>
<u>MILEAGE 9.78</u>	<u>700</u> <u>1144.26</u>
	TOTAL <u>2500.96</u>

PUMP TRUCK CEMENTER <u>Alan Ryan</u>	
# <u>473-281</u> HELPER <u>Kevin Ryan</u>	
BULK TRUCK	
# <u>818</u> DRIVER <u>Brandon Wilkinson</u>	
BULK TRUCK	
# <u>373</u> DRIVER <u>Thomas (Tool)</u>	

**REMARKS:**

Run on Circulate, mix WFR, Pump 10 ABC KCL  
mix 150 5K ASC wash up, Displace  
plug w/ 45 H<sub>2</sub>O - 5300 H<sub>2</sub>O Mud,  
Float Well open Tool @ 800 PSI  
Circulate 3 H<sub>2</sub>O, 750 PSI LIFT,  
Load Plug @ 1600 PSI

Thank you  
Alan, Kevin, Brandon  
Thomas

CHARGE TO Culbreath  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB	<u>4150</u>
PUMP TRUCK CHARGE	<u>2765.75</u>
EXTRA FOOTAGE	@
MILEAGE <u>45 miles</u>	@ <u>7.20</u> <u>346.50</u>
MANIFOLD - Head	@
<u>Stalochole 45mils</u>	@ <u>4.40</u> <u>198.00</u>
	@
	TOTAL <u>3585.25</u>

**PLUG & FLOAT EQUIPMENT**

<u>OV Tool</u>	<u>5335.00</u>
<u>API Float shoe</u>	@ <u>545.00</u>
<u>Witch Down Assembly</u>	@ <u>660.00</u>
<u>Control, van 1</u>	@ <u>57.00</u> <u>57.00</u>
<u>Baskets</u>	@ <u>79.00</u> <u>79.00</u>
<u>Scratchers</u>	@ <u>249.20</u>
	TOTAL <u>10392.00</u>

To: Allied Oil & Gas Services, 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.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 21,477.71  
DISCOUNT 2,549.71 IF PAID IN 30 DAYS  
18,927.99 Net.

PRINTED NAME Paul L. DeLong  
SIGNATURE [Signature]



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Culbreath Oil & Gas Co., Inc.

**36/9s/26w Sheridan KS**

1532 S Peoria Ave  
Tulsa, OK 74120

**Dubois #3-36**

ATTN: Steve Murphy

Job Ticket: 56978

**DST#: 1**

Test Start: 2014.03.23 @ 15:30:00

## GENERAL INFORMATION:

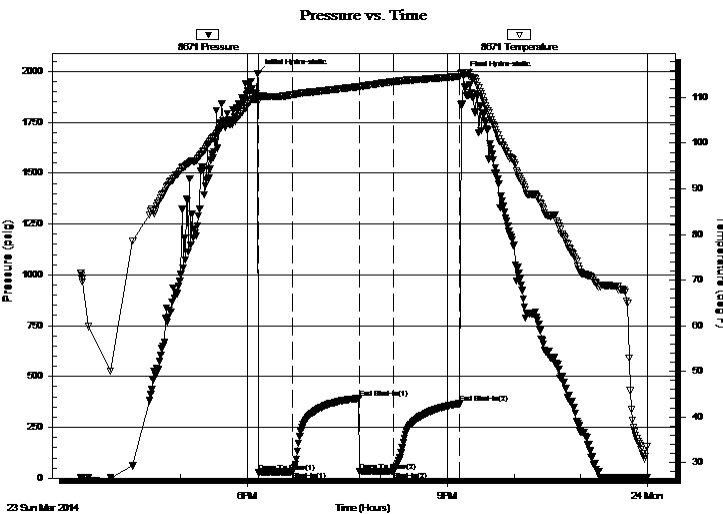
Formation: **LKC "B"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:09:45  
 Time Test Ended: 23:59:15  
 Interval: **3872.00 ft (KB) To 3896.00 ft (KB) (TVD)**  
 Total Depth: 3896.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Winder/ Brando  
 Unit No: 57  
 Reference Elevations: 2601.00 ft (KB)  
 2591.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 8671

Inside

Press @ Run Depth: 32.97 psig @ 3873.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.23 End Date: 2014.03.23 Last Calib.: 2014.03.24  
 Start Time: 15:30:05 End Time: 23:59:14 Time On Btm: 2014.03.23 @ 18:09:30  
 Time Off Btm: 2014.03.23 @ 21:14:15

TEST COMMENT: 30-IF; 1/4in. blow built to 1in.  
 60-ISI: No Blow Back  
 30-FF: No Blow  
 60-FSI: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.53	110.46	Initial Hydro-static
1	29.31	109.17	Open To Flow (1)
32	31.50	110.66	Shut-In(1)
91	392.74	112.40	End Shut-In(1)
92	32.55	112.18	Open To Flow (2)
122	32.97	113.46	Shut-In(2)
182	366.67	114.64	End Shut-In(2)
185	1977.59	115.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w / Oil Spots 98% <sub>m</sub> , 2% <sub>o</sub>	0.42

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Culbreath Oil & Gas Co., Inc.

**36/9s/26w Sheridan KS**

1532 S Peoria Ave  
Tulsa, OK 74120

**Dubois #3-36**

Job Ticket: 56978

**DST#: 1**

ATTN: Steve Murphy

Test Start: 2014.03.23 @ 15:30:00

## 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:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud w / Oil Spots 98% <sub>m</sub> , 2% <sub>o</sub>	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



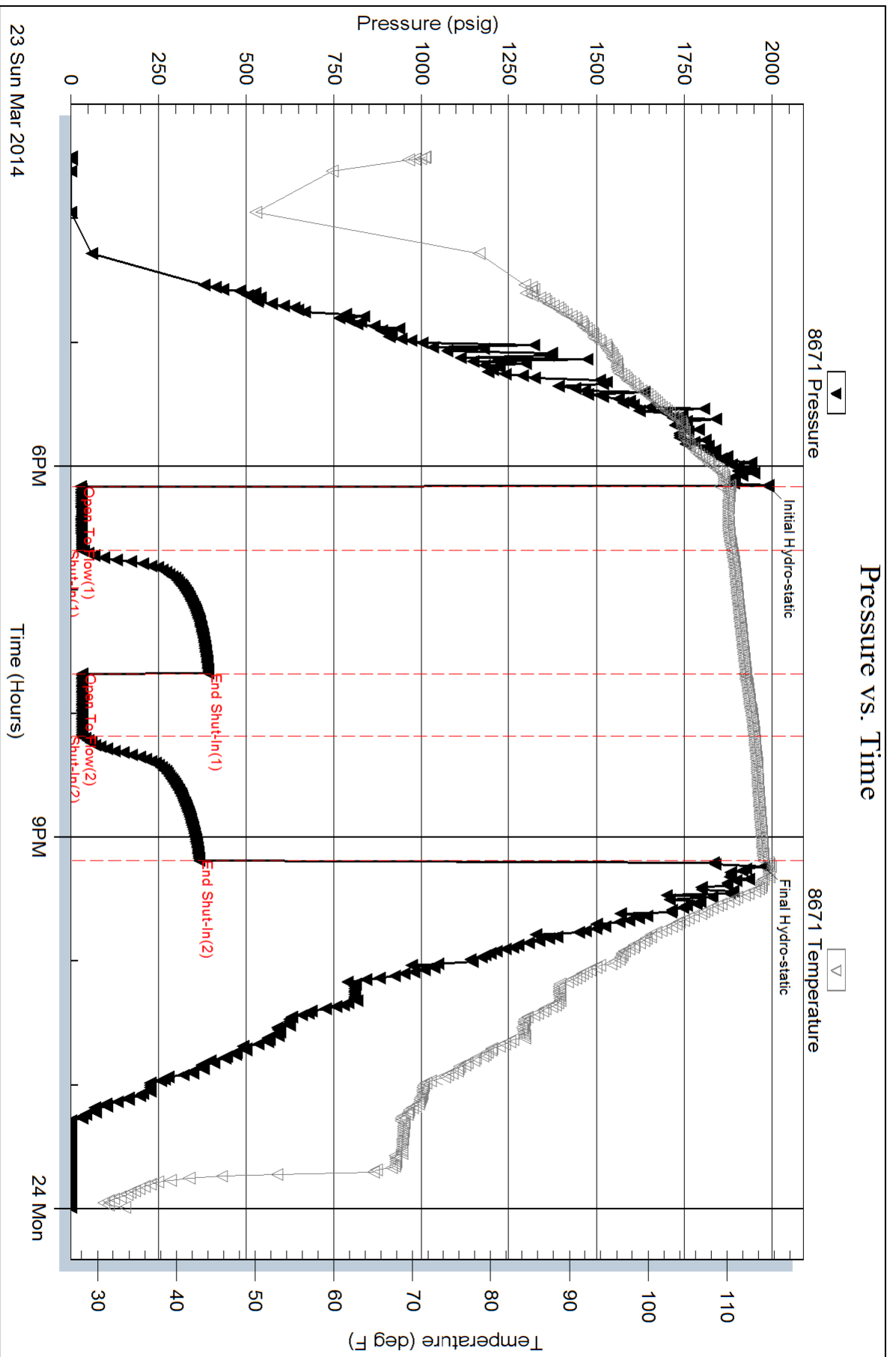
Serial #: 8671

Inside

Culbreath Oil & Gas Co., Inc.

Dubois #3-36

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56978

Printed: 2014.03.24 @ 06:37:23



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Culbreath Oil & Gas Co., Inc.

**36/9s/26w Sheridan KS**

1532 S Peoria Ave  
Tulsa, OK 74120

**Dubois #3-36**

ATTN: Steve Murphy

Job Ticket: 56979

**DST#: 2**

Test Start: 2014.03.24 @ 19:38:00

## GENERAL INFORMATION:

Formation: **LKC "I-J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:41:00  
 Time Test Ended: 06:03:30  
 Interval: **4010.00 ft (KB) To 4044.00 ft (KB) (TVD)**  
 Total Depth: 4044.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder/ Brando  
 Unit No: 57  
 Reference Elevations: 2601.00 ft (KB)  
 2591.00 ft (CF)  
 KB to GR/CF: 10.00 ft

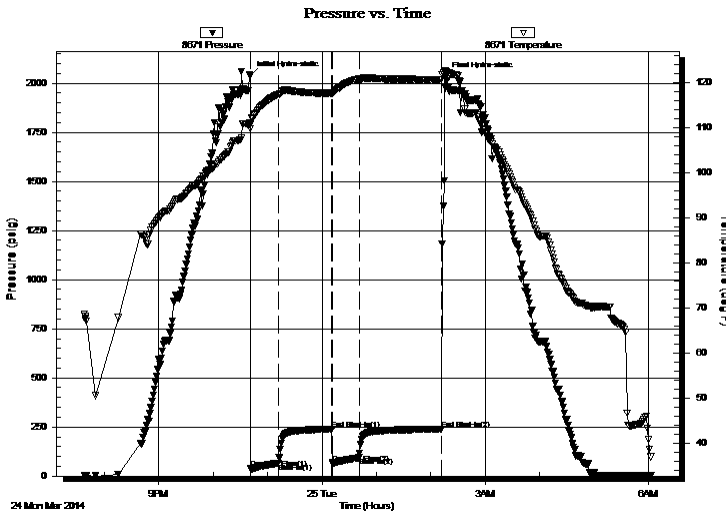
## Serial #: 8671

Inside

Press @ Run Depth: 94.52 psig @ 4011.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.24 End Date: 2014.03.25 Last Calib.: 2014.03.25  
 Start Time: 19:38:05 End Time: 06:03:30 Time On Btm: 2014.03.24 @ 22:40:45  
 Time Off Btm: 2014.03.25 @ 02:15:30

**TEST COMMENT:** 30-IF-Blow built to BOB (11") in 3 1/2 min.  
 60-ISI-Blow Back @ 45 min. built to 1/4"  
 30-FF-Blow Built to BOB in 45 sec.  
 90-FSI-Blow back built to 4 1/2 in.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2039.13	111.10	Initial Hydro-static
1	39.03	109.84	Open To Flow (1)
31	66.26	117.42	Shut-In(1)
90	237.78	117.67	End Shut-In(1)
91	65.32	117.66	Open To Flow (2)
120	94.52	120.87	Shut-In(2)
211	238.40	120.69	End Shut-In(2)
215	2034.39	122.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 42%m, 30%g, 28%o	0.87
83.00	GMO 48%o, 40%m, 12%g	1.16
55.00	CO 99%o, 1%m	0.77
0.00	GIP=1545'	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Culbreath Oil & Gas Co., Inc.

**36/9s/26w Sheridan KS**

1532 S Peoria Ave  
Tulsa, OK 74120

**Dubois #3-36**

Job Ticket: 56979

**DST#: 2**

ATTN: Steve Murphy

Test Start: 2014.03.24 @ 19:38:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GOCM 42% <i>m</i> , 30% <i>g</i> , 28% <i>o</i>	0.870
83.00	GMO 48% <i>o</i> , 40% <i>m</i> , 12% <i>g</i>	1.164
55.00	CO 99% <i>o</i> , 1% <i>m</i>	0.772
0.00	GIP=1545'	0.000

Total Length: 200.00 ft      Total Volume: 2.806 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity=36 API @ 32degF; Corrected Gravity=38.8 API

Serial #: 8671

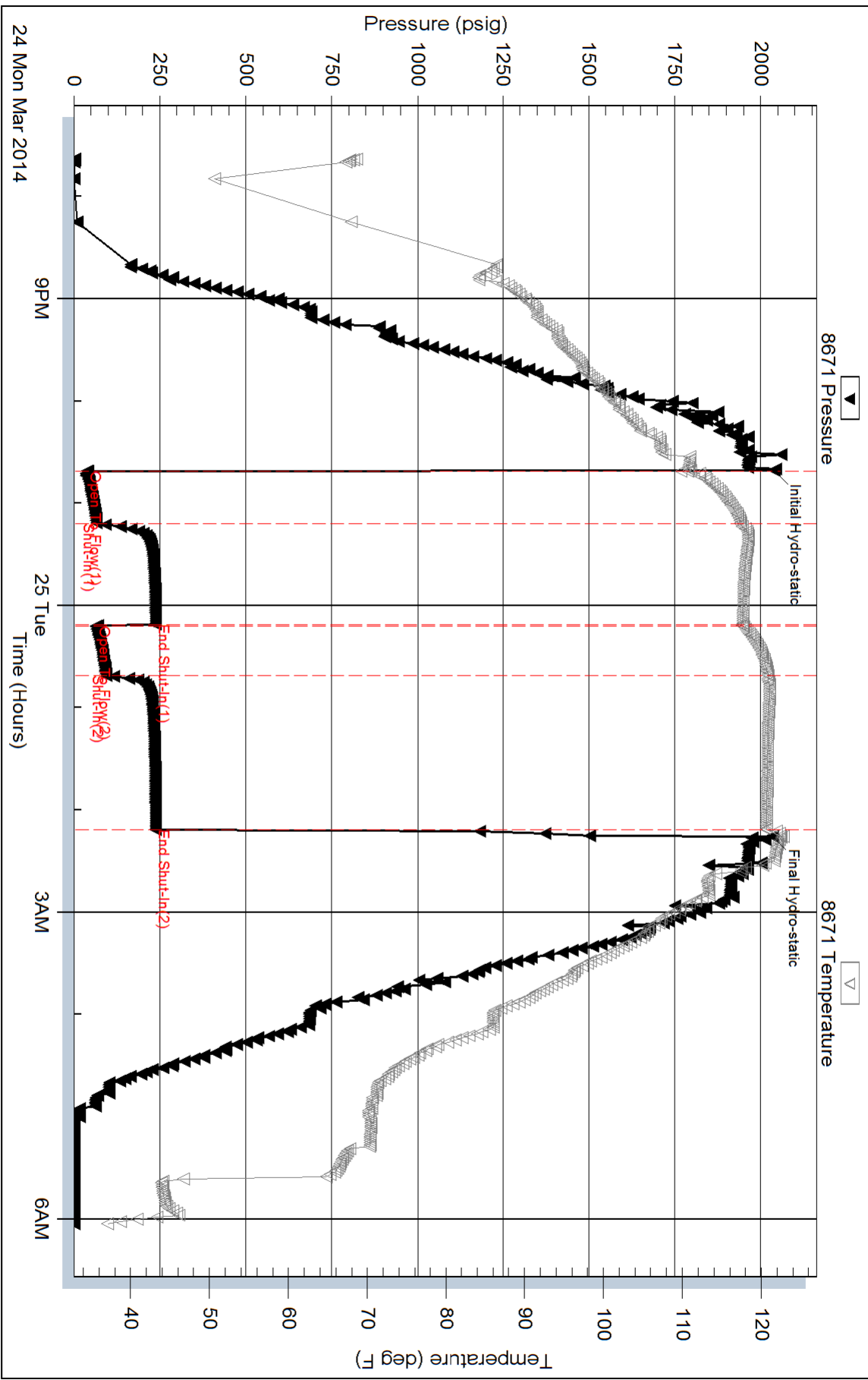
Inside

Culbreath Oil & Gas Co., Inc.

Dulbois #3-36

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 56979

Printed: 2014.03.25 @ 08:08:58