



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1245035
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
-----------------------------------	-----------------	---

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: _____



1245035

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
--	---

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: <input type="checkbox"/> Yes <input 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 <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Hawkeye 1-22
Doc ID	1245035

All Electric Logs Run

CND
DIL
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Hawkeye 1-22
Doc ID	1245035

Tops

Name	Top	Datum
Anhydrite	2432	+395
Base Anhy	2463	+364
Topeka	3673	-846
Heebner	3989	-1262
Lasing	3930	-1103
Muncie	4056	-1229
Stark	4141	-1314
BKC	4199	-1372
LTD	4308	-1481



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co. Inc.

22 10s 30w Sheridan KS

1532 S Peiria Ave
Tulsa OK 74120-6202

Hawkeye 1-22

Job Ticket: 61386

DST#: 1

ATTN: Anthony Luna

Test Start: 2015.01.07 @ 16:03:00

GENERAL INFORMATION:

Formation: **LKC " B - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:44:15

Time Test Ended: 19:58:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 3956.00 ft (KB) To 4000.00 ft (KB) (TVD)

Reference Elevations: 2828.00 ft (KB)

Total Depth: 4000.00 ft (KB) (TVD)

2823.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press @ Run Depth: psig @ 3965.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.07 End Date: 2015.01.07

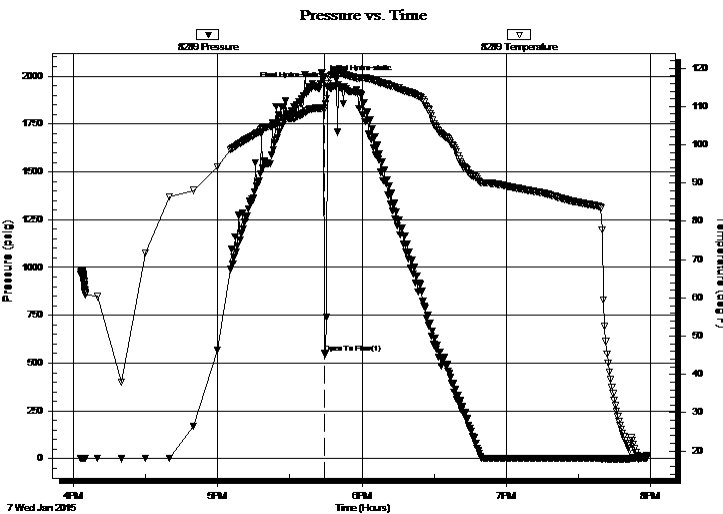
Last Calib.: 2015.01.07

Start Time: 16:03:02 End Time: 19:58:30

Time On Btm: 2015.01.07 @ 17:44:00

Time Off Btm: 2015.01.07 @ 17:45:45

TEST COMMENT: Packer - Failure..... Miss-Run



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.72	109.69	Initial Hydro-static
1	552.62	109.29	Open To Flow (1)
2	1945.00	115.85	Final Hydro-static

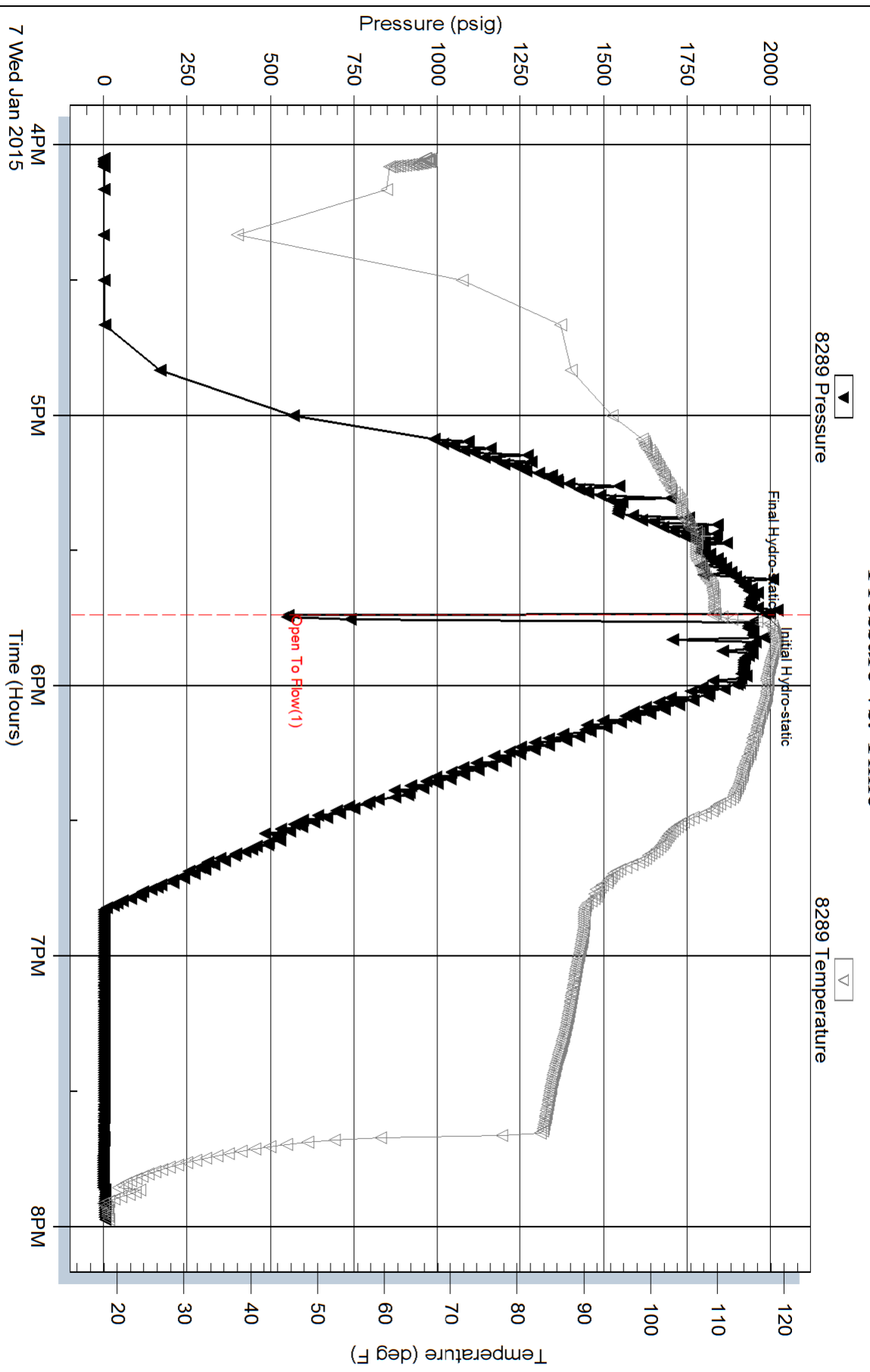
Recovery

Length (ft)	Description	Volume (bbl)
370.00	Mud 100%	4.08

Gas Rates

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

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co. Inc.

22 10s 30w Sheridan KS

1532 S Peiria Ave
Tulsa OK 74120-6202

Hawkeye 1-22

Job Ticket: 61387

DST#: 2

ATTN: Anthony Luna

Test Start: 2015.01.07 @ 20:22:00

GENERAL INFORMATION:

Formation: **LKC " B - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:28:30

Time Test Ended: 09:31:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3946.00 ft (KB) To 4000.00 ft (KB) (TVD)

Reference Elevations: 2828.00 ft (KB)

Total Depth: 4000.00 ft (KB) (TVD)

2823.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: 1080.33 psig @ 3955.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.07

End Date:

2015.01.08

Last Calib.:

2015.01.08

Start Time: 20:22:02

End Time:

09:29:02

Time On Btm:

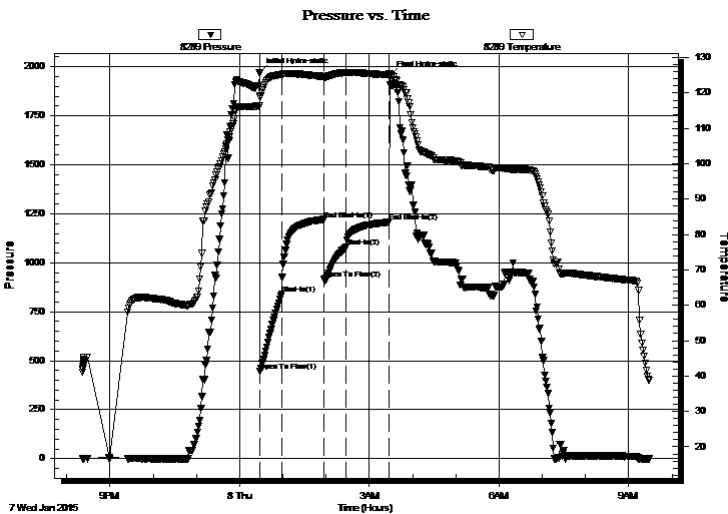
2015.01.08 @ 00:27:30

Time Off Btm:

2015.01.08 @ 03:28:00

TEST COMMENT: 30-IFP- BOB in 45sec.
60-ISIP- No Blow
30-FFP- BOB in 45sec.
60-FSIP- Surface Blow in 2min. Building to 7in.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1971.38	116.55	Initial Hydro-static
1	448.38	118.81	Open To Flow (1)
31	839.65	125.31	Shut-In(1)
90	1221.52	124.68	End Shut-In(1)
90	915.34	124.54	Open To Flow (2)
121	1080.33	125.83	Shut-In(2)
180	1207.15	125.13	End Shut-In(2)
181	1953.43	125.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Oil Speck WCM 5%w 95%m	1.50
1750.00	OCW 20%o 80%w	24.55
187.00	MOCW 20%m 30%o 50%w	2.62
187.00	MWCO 10%m 25%w 65%o	2.62
0.00	GIP 125	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.

22 10s 30w Sheridan KS

1532 S Peiria Ave
Tulsa OK 74120-6202

Hawkeye 1-22

Job Ticket: 61387

DST#: 2

ATTN: Anthony Luna

Test Start: 2015.01.07 @ 20:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

61000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	Oil Speck WCM 5%w 95%m	1.498
1750.00	OCW 20%o 80%w	24.548
187.00	MOCW 20%m 30%o 50%w	2.623
187.00	MWCO 10%m 25%w 65%o	2.623
0.00	GIP 125	0.000

Total Length: 2310.00 ft

Total Volume: 31.292 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

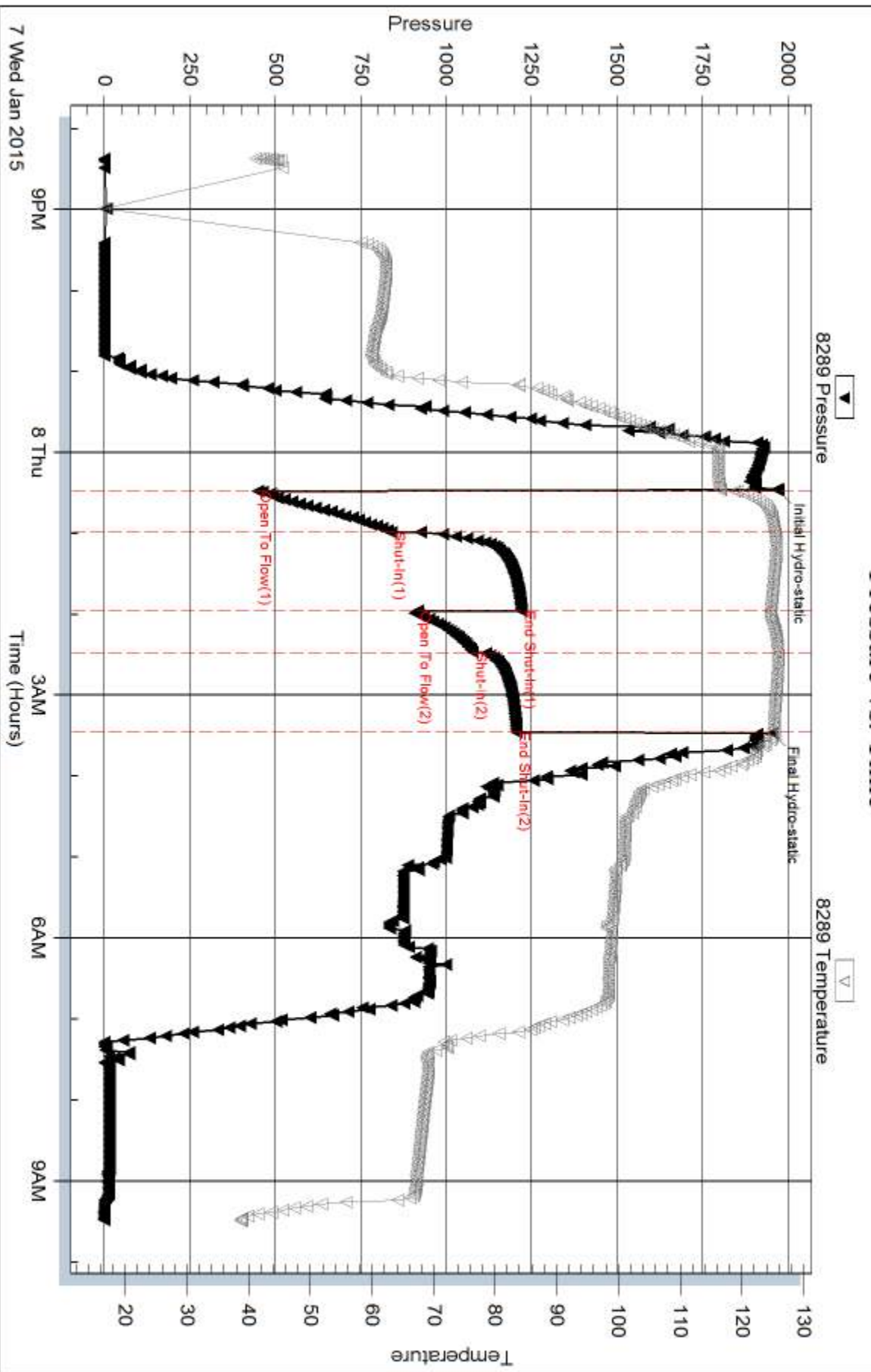
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .340 @ 26

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co. Inc.

22 10s 30w Sheridan KS

1532 S Peiria Ave
Tulsa OK 74120-6202

Hawkeye 1-22

Job Ticket: 61388

DST#: 3

ATTN: Anthony Luna

Test Start: 2015.01.08 @ 21:32:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:33:00

Time Test Ended: 04:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 4056.00 ft (KB) To 4090.00 ft (KB) (TVD)

Total Depth: 4090.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2828.00 ft (KB)

2823.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press @ Run Depth: 97.35 psig @ 4062.00 ft (KB)

Start Date: 2015.01.08

End Date:

2015.01.09

Start Time: 21:32:02

End Time:

04:17:45

Capacity: 8000.00 psig

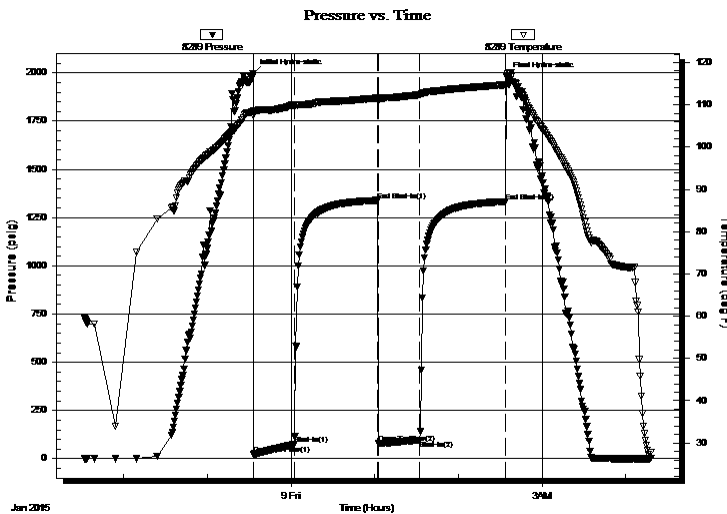
Last Calib.: 2015.01.09

Time On Btm: 2015.01.08 @ 23:32:45

Time Off Btm: 2015.01.09 @ 02:34:15

TEST COMMENT: 30-IFP- Surface Blow Building to 5 3/4in.
60-ISIP- No Blow
30-FFP- Surface Blow Building to 3 1/2in.
60-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1997.84	108.40	Initial Hydro-static
1	21.92	107.50	Open To Flow (1)
30	75.58	109.78	Shut-In(1)
90	1339.11	111.63	End Shut-In(1)
90	80.40	110.80	Open To Flow (2)
120	97.35	112.38	Shut-In(2)
181	1332.76	114.73	End Shut-In(2)
182	1981.25	116.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
132.00	MCW 10% m 90% w Show of Oil in Too	0.74

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co. Inc.

22 10s 30w Sheridan KS

1532 S Peiria Ave
Tulsa OK 74120-6202

Hawkeye 1-22

Job Ticket: 61388

DST#: 3

ATTN: Anthony Luna

Test Start: 2015.01.08 @ 21:32:00

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:

44000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
132.00	MCW 10% m 90% w Show of Oil in Tool	0.740

Total Length: 132.00 ft Total Volume: 0.740 bbf

Num Fluid Samples: 0

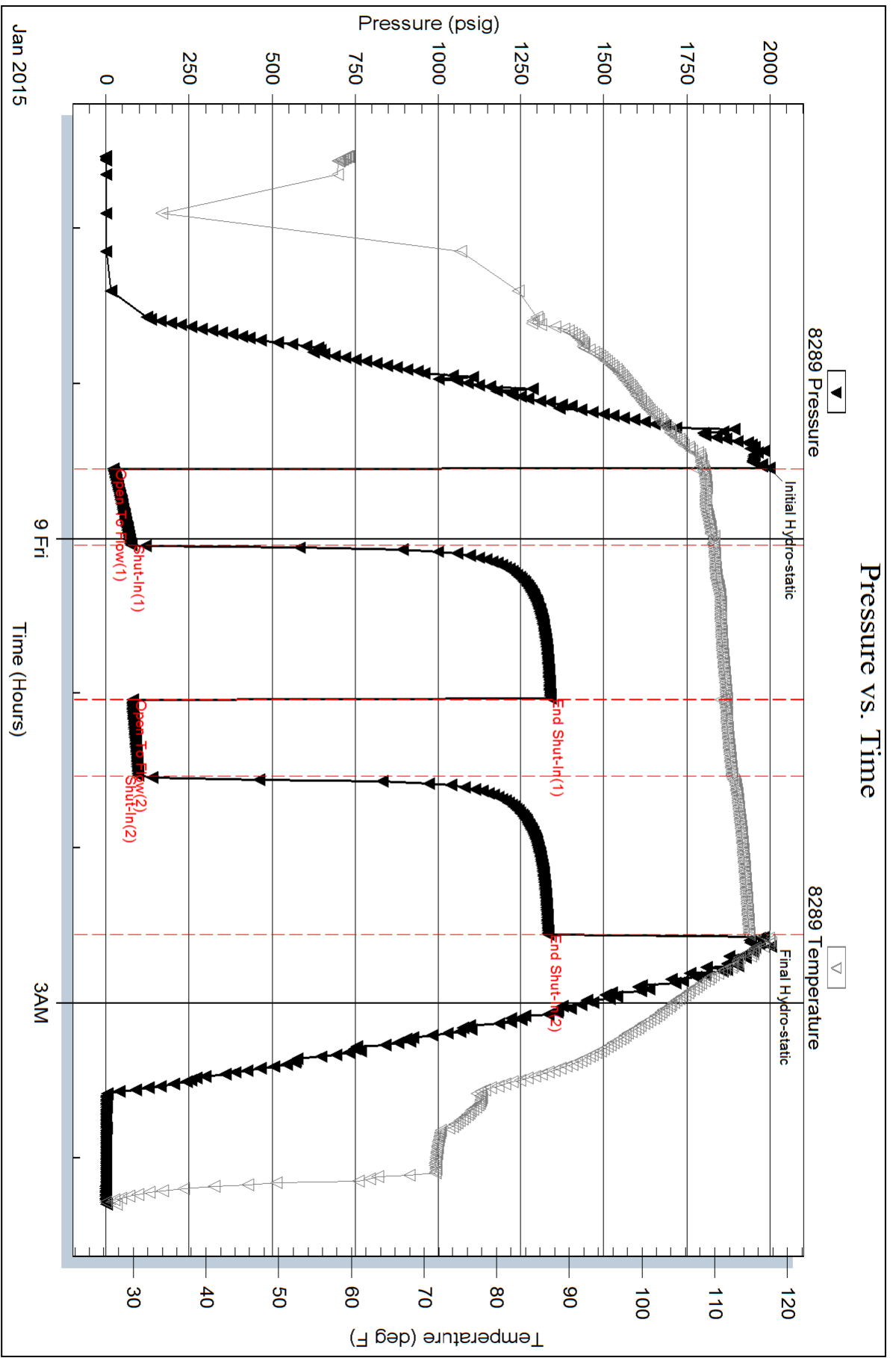
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .397 @ 30





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co. Inc.

22 10s 30w Sheridan KS

1532 S Peiria Ave
Tulsa OK 74120-6202

Hawkeye 1-22

Job Ticket: 61389

DST#: 4

ATTN: Anthony Luna

Test Start: 2015.01.09 @ 18:41:00

GENERAL INFORMATION:

Formation: **LKC " I - K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:33:45

Time Test Ended: 00:32:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 4092.00 ft (KB) To 4182.00 ft (KB) (TVD)

Total Depth: 4182.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2828.00 ft (KB)

2823.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press @ Run Depth: 35.96 psig @ 4093.00 ft (KB)

Start Date: 2015.01.09

End Date:

2015.01.10

Start Time: 18:41:02

End Time:

00:31:45

Capacity: 8000.00 psig

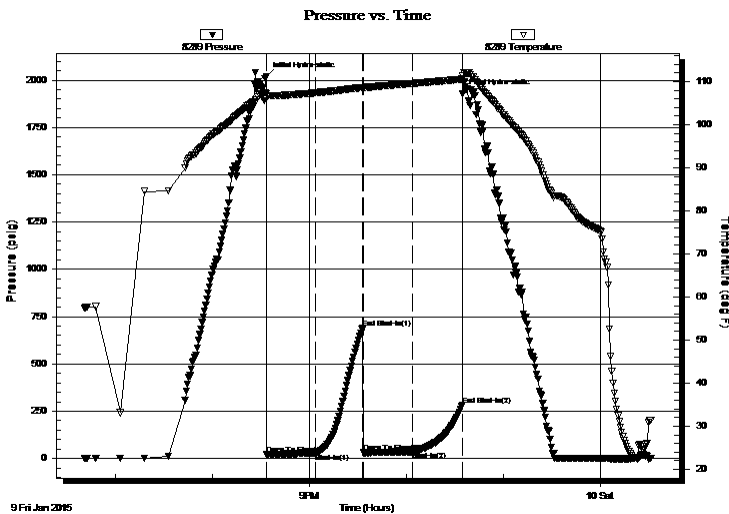
Last Calib.: 2015.01.10

Time On Btm: 2015.01.09 @ 20:33:30

Time Off Btm: 2015.01.09 @ 22:35:00

TEST COMMENT: 30-IFP- Surface Blow Building to 2 1/2in.
30-ISIP- No Blow
30-FFP- Good Surge on Tool Open ----- No Blow
30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2017.18	107.20	Initial Hydro-static
1	20.39	105.98	Open To Flow (1)
31	28.84	107.41	Shut-In(1)
60	688.33	108.64	End Shut-In(1)
60	31.44	108.48	Open To Flow (2)
91	35.96	109.58	Shut-In(2)
122	280.83	110.59	End Shut-In(2)
122	1930.18	111.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 4%o 96%m	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co. Inc.

22 10s 30w Sheridan KS

1532 S Peiria Ave
Tulsa OK 74120-6202

Hawkeye 1-22

Job Ticket: 61389

DST#: 4

ATTN: Anthony Luna

Test Start: 2015.01.09 @ 18:41:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 4%o 96%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

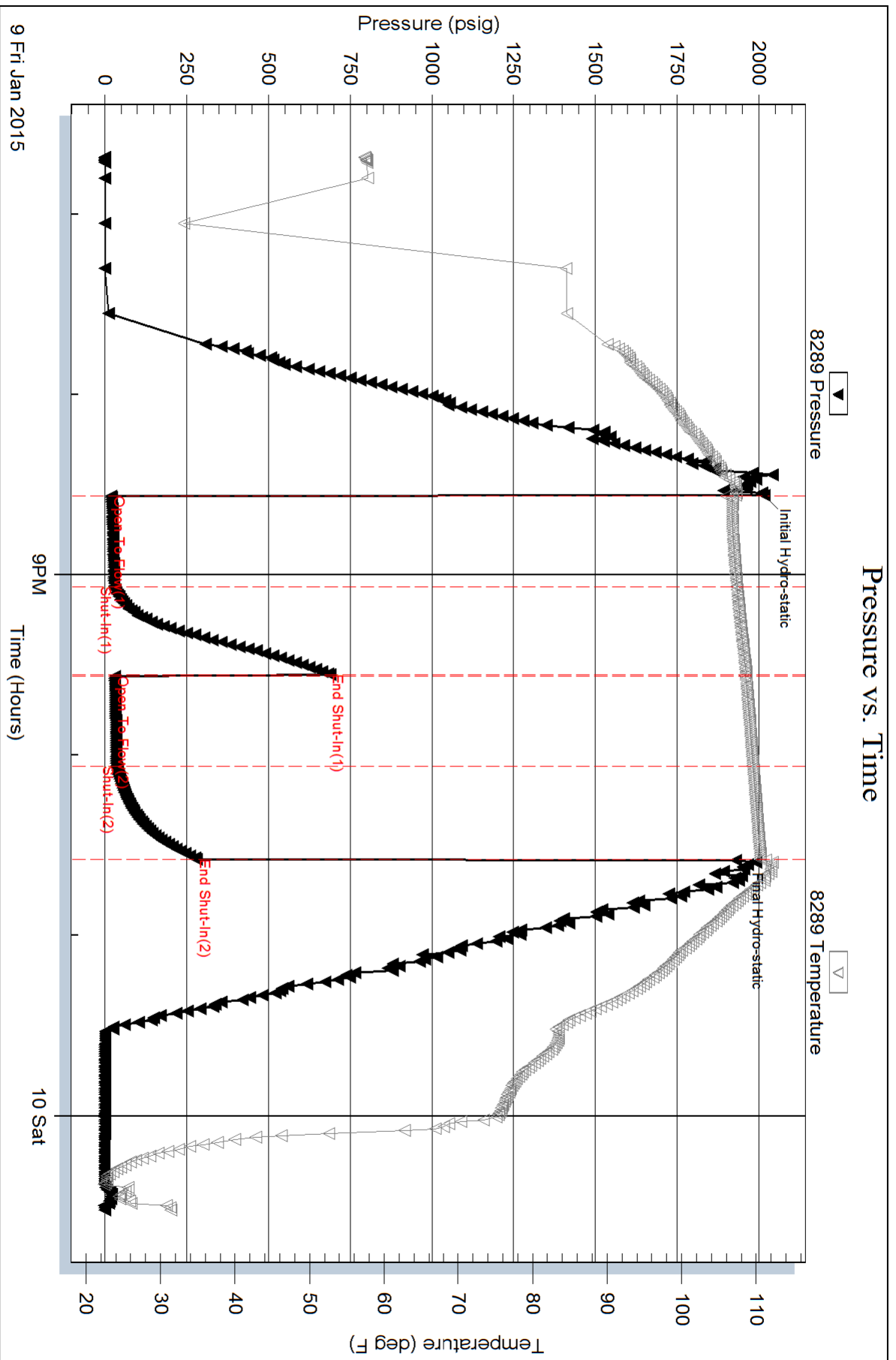
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



2:00 AM

11, 2014



CONSOLIDATED
Oil Well Services, LLC

1738
1685

TICKET NUMBER 47855
LOCATION Oakley ks.
FOREMAN Cory Davis
miles S.

FIELD TICKET & TREATMENT REPORT
CEMENT INVOICE #803064

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-11-15	2777	Hawkeye #1-22	22	10	30	Sheridan

CUSTOMER			MAILING ADDRESS				CITY		STATE	ZIP CODE	
Culbreath			Grinnell N to RD 130 W to RD 110 S into				TRUCK #		DRIVER	TRUCK #	DRIVER
							772		Jordan L.		
							460		Larry H		

JOB TYPE <u>log string</u>	HOLE SIZE <u>7 7/8</u>	HOLE DEPTH <u>4,310</u>	CASING SIZE & WEIGHT <u>5 1/2 15.5</u>
CASING DEPTH <u>4299.99</u>	DRILL PIPE	TUBING	OTHER
SLURRY WEIGHT <u>14.5</u>	SLURRY VOL <u>1.42</u>	WATER gal/sk <u>6.97</u>	CEMENT LEFT in CASING
DISPLACEMENT <u>100/103.2</u>	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Safety meeting - Rig up on WW10 - run casing with centralizers on joint 2,4,6,7,8,9,10,13 and 43 Basket on 14 and 44 Port collar on top of 44 shoe at 4213 - circulate for 2 hour Hole upto pump truck 5 BBL water ahead mix mud flush 20 BBL KCL - mix 30 slk in Ret hole 170 down hole wash up displace 101.5 BBL Water
OWC 5# Kol-seal

Lift 900
land 1300

Thanks Cory D. & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 C	1	PUMP CHARGE	3,175.00	3,175.00
5406	20	MILEAGE	5.25	105.00
5407 A	11.1	Ton mileage delivery	1.75	388.50
1126	200 slk.	OWC	23.70	4740.00
1110 A	1,000#	Kol-seal	.56	560.00
4130	9	Centralizer 5 1/2	61.00	549.00
4104	2	Basket 5 1/2	290.00	580.00
4159	1	AFU Float shoe 5 1/2	433.75	433.75
4454	1	Latch down plug 5 1/2	567.00	567.00
4314	40	Reciprocating Scratchers	82.00	3,280.00
4285	1	5 1/2 Port collar	2,178.75	2,178.75
1142	2 gal	KCL	41.10	82.20
1144G	500 gal	Mud flush	1.00	500.00
		sub total		17,139.20
		15% less		2,570.88
		sub total		14,568.32
		SALES TAX		933.21
		ESTIMATED TOTAL		15501.51

Ravin 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.