



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1177156
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: _____

1177156

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Ostmeyer/Bixenman Unit 1-20A
Doc ID	1177156

Tops

Name	Top	Datum
Anhydrite	2568	
Base Anhydrite	2598	
Heebner	4012	
Toronto	4039	
Lansing	4056	
Muncie Creek	4178	
Stark Shale	4263	
Hushp	4301	
BKC	4326	
Pawnee	4452	
Myrick Station	4490	
Fort Scott	4512	
Cherokee Shale	4541	
Mississippi	4626	



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

20-10s-31w-Thomas KS

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixeman1-20A

ATTN: Pat Deenihan

Job Ticket: 54541

DST#: 1

Test Start: 2013.11.22 @ 04:55:00

GENERAL INFORMATION:

Formation: **Lkc "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:27:45

Time Test Ended: 17:17:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III (

Unit No: 64

Interval: 4152.00 ft (KB) To 4192.00 ft (KB) (TVD)

Reference Elevations: 3022.00 ft (KB)

Total Depth: 4192.00 ft (KB) (TVD)

3014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 976.79 psig @ 4157.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.22

End Date: 2013.11.22

Last Calib.: 2013.11.08

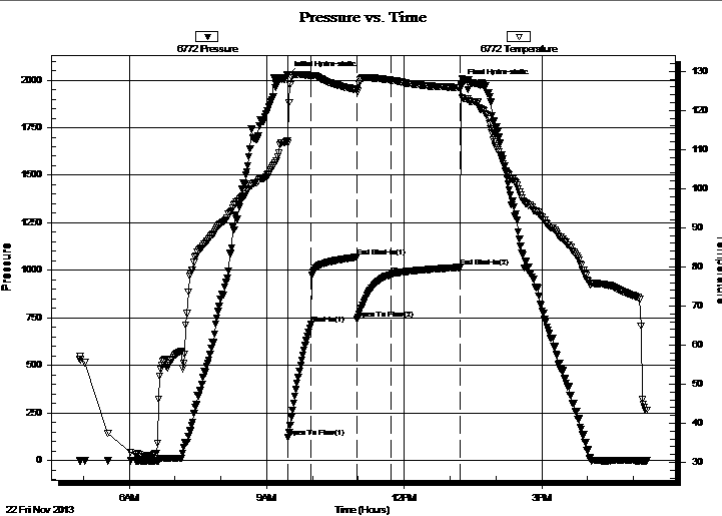
Start Time: 04:55:05

End Time: 17:17:30

Time On Btm: 2013.11.22 @ 09:27:30

Time Off Btm: 2013.11.22 @ 13:14:00

TEST COMMENT: IF: B.o.b. in 1 1/2 min.
IS: Bled off in 4 1/2 min.-No return
FF: B.o.b. in 3 min.
FS: Bled off in 3 1/2 min.-Fair Surface blow back-Built to 8 1/2 in. of Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2026.52	112.26	Initial Hydro-static
1	119.22	111.67	Open To Flow (1)
31	717.33	128.88	Shut-In(1)
91	1068.80	125.35	End Shut-In(1)
91	742.17	125.21	Open To Flow (2)
136	976.79	127.72	Shut-In(2)
226	1015.45	125.80	End Shut-In(2)
227	1982.49	125.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1140.00	Gmcw 5g 10m 85w	15.99
1200.00	Gmcw 10g 10m 80w	16.83
60.00	Water w / oil specs 100w	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Company Inc.

20-10s-31w-Thomas KS

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixeman1-20A

Job Ticket: 54541

DST#: 1

ATTN: Pat Deenihan

Test Start: 2013.11.22 @ 04:55:00

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:

120000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1140.00	Gmcw 5g 10m 85w	15.991
1200.00	Gmcw 10g 10m 80w	16.833
60.00	Water w / oil specs 100w	0.842

Total Length: 2400.00 ft Total Volume: 33.666 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

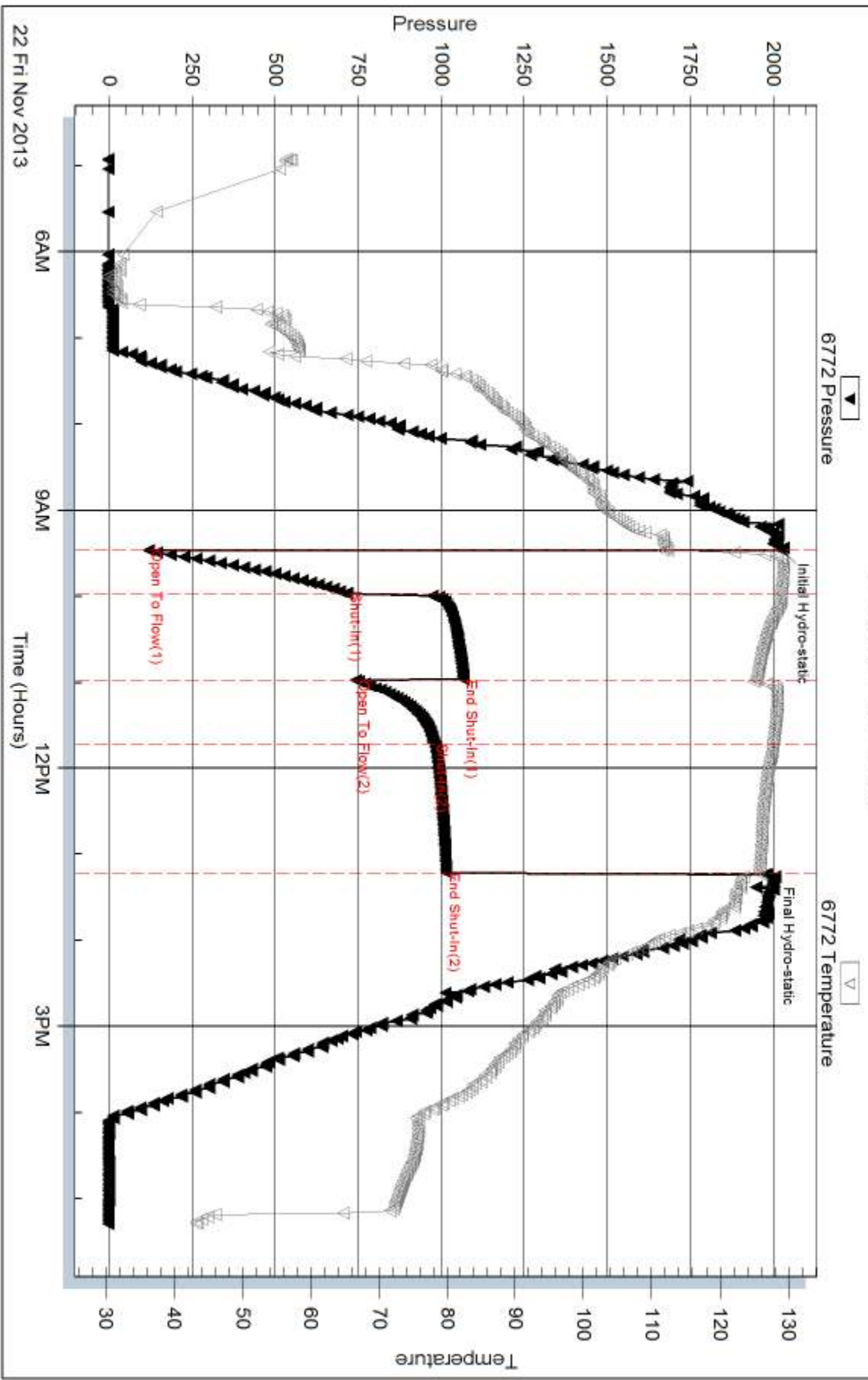
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .12@40=120,000

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

20-10s-31w-Thomas KS

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixeman1-20A

ATTN: Pat Deenihan

Job Ticket: 54542

DST#: 2

Test Start: 2013.11.23 @ 01:25:00

GENERAL INFORMATION:

Formation: **Lansing "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:07:30

Time Test Ended: 11:02:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III (

Unit No: 64

Interval: 4194.00 ft (KB) To 4212.00 ft (KB) (TVD)

Reference Elevations: 3022.00 ft (KB)

Total Depth: 4212.00 ft (KB) (TVD)

3014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 35.04 psig @ 4197.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.23

End Date:

2013.11.23

Last Calib.: 2013.11.09

Start Time: 01:25:05

End Time:

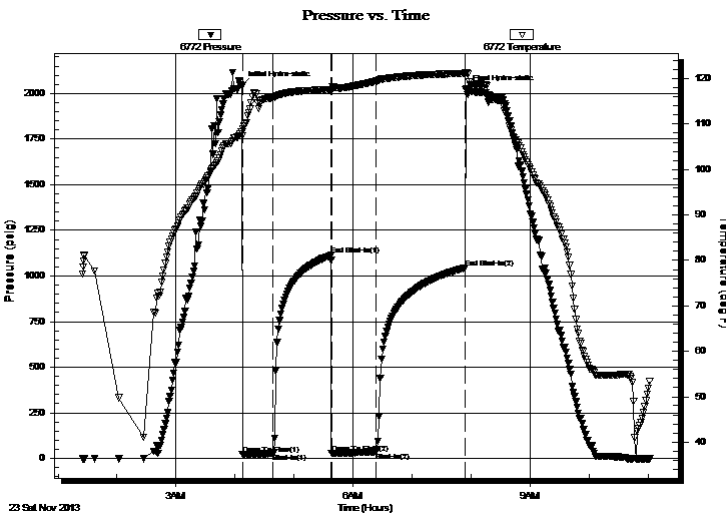
11:02:15

Time On Btm: 2013.11.23 @ 04:07:15

Time Off Btm: 2013.11.23 @ 07:54:30

TEST COMMENT: IF: 2 1/2 in. of blow
IS: Bled off in 1 1/2 min.-No return
FF: No blow
FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.92	108.35	Initial Hydro-static
1	21.55	107.37	Open To Flow (1)
32	27.07	115.81	Shut-In(1)
91	1113.35	117.58	End Shut-In(1)
91	28.20	117.26	Open To Flow (2)
136	35.04	119.41	Shut-In(2)
227	1044.95	121.15	End Shut-In(2)
228	2021.10	121.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w/oil specs 100m	0.42

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 Company Inc.

20-10s-31w-Thomas KS

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixeman1-20A

Job Ticket: 54542

DST#: 2

ATTN: Pat Deenihan

Test Start: 2013.11.23 @ 01:25:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud w /oil specs 100m	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

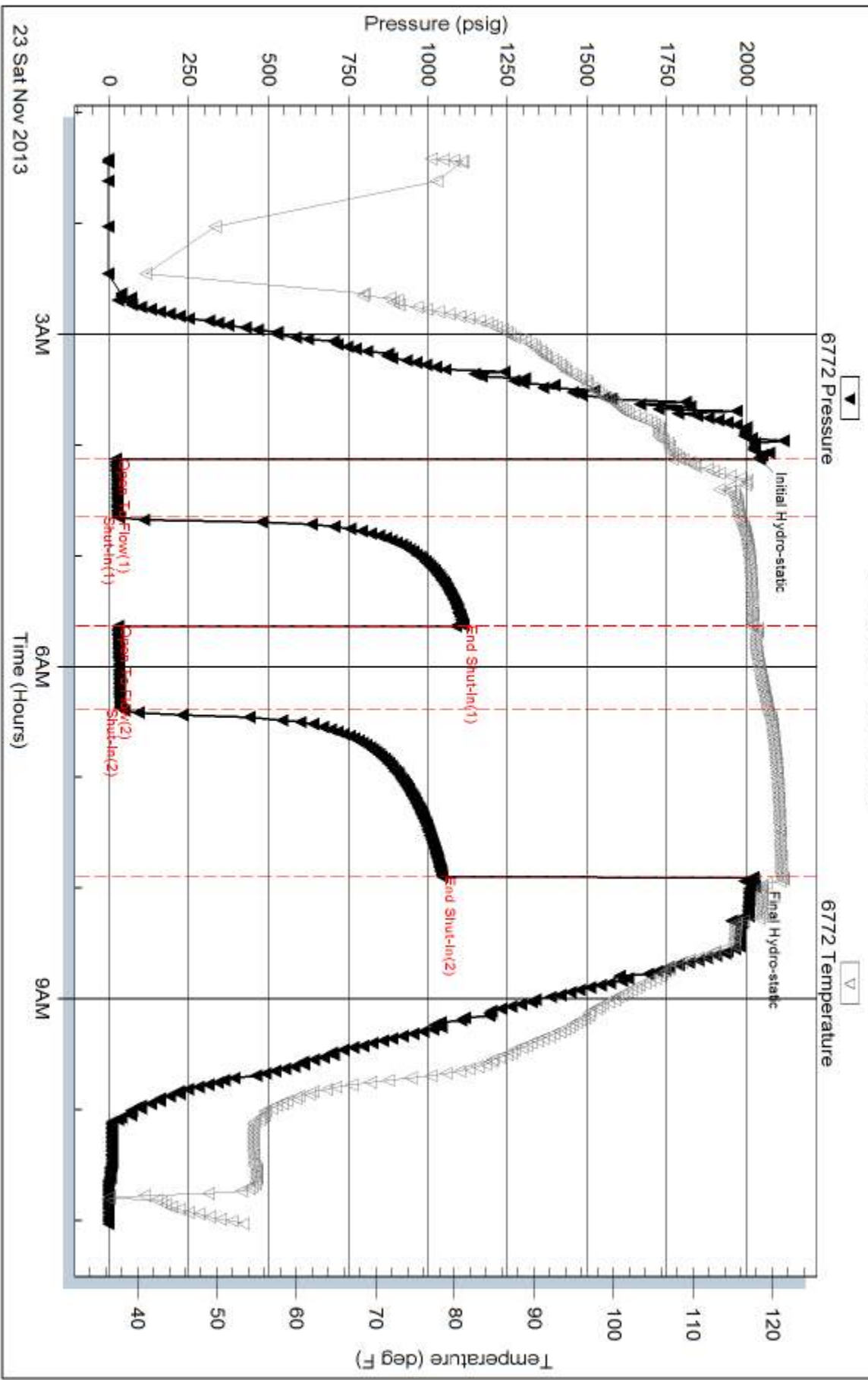
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

20-10s-31w-Thomas, Co KS

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

ATTN: Pat Deenihan

Job Ticket: 54543

DST#: 3

Test Start: 2013.11.24 @ 01:00:00

GENERAL INFORMATION:

Formation: **Lansing "J & K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:02:30

Time Test Ended: 10:56:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III (

Unit No: 64

Interval: 4210.00 ft (KB) To 4273.00 ft (KB) (TVD)

Reference Elevations: 3022.00 ft (KB)

Total Depth: 4273.00 ft (KB) (TVD)

3014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 18.78 psig @ 4215.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.24

End Date:

2013.11.24

Last Calib.:

2013.11.10

Start Time: 01:00:05

End Time:

10:56:15

Time On Btm:

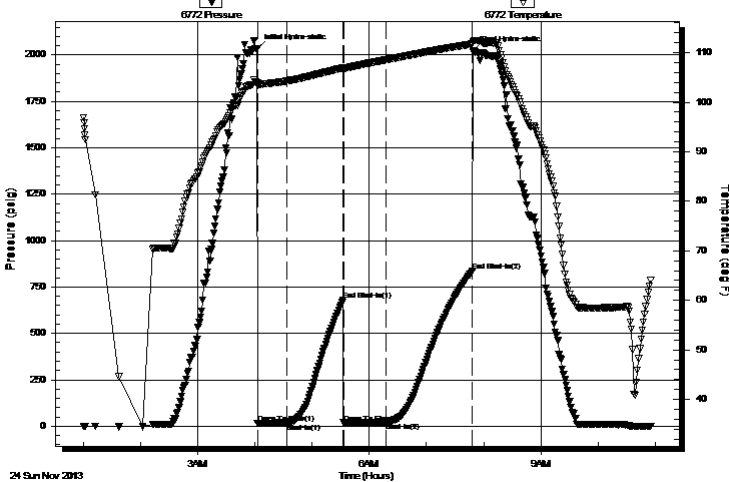
2013.11.24 @ 04:02:15

Time Off Btm:

2013.11.24 @ 07:49:15

TEST COMMENT: IF: 3/4 in. blow -died back to 1/2 in.
IS: Bled off in 1 1/2 min.-surface blow back @ 4 min.shut in-died in 15 min.
FF: Weak surface blow -died in 15 min.
FS: Weak surface blow back-died in 15 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2033.62	103.99	Initial Hydro-static
1	16.64	103.42	Open To Flow (1)
32	17.39	104.28	Shut-In(1)
91	679.29	106.93	End Shut-In(1)
91	17.85	106.72	Open To Flow (2)
136	18.78	108.57	Shut-In(2)
226	837.11	111.79	End Shut-In(2)
227	2022.58	112.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Ocm 2o 98m	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 Company Inc.

20-10s-31w-Thomas,Co KS

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

Job Ticket: 54543

DST#: 3

ATTN: Pat Deenihan

Test Start: 2013.11.24 @ 01:00:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Ocm2o 98m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

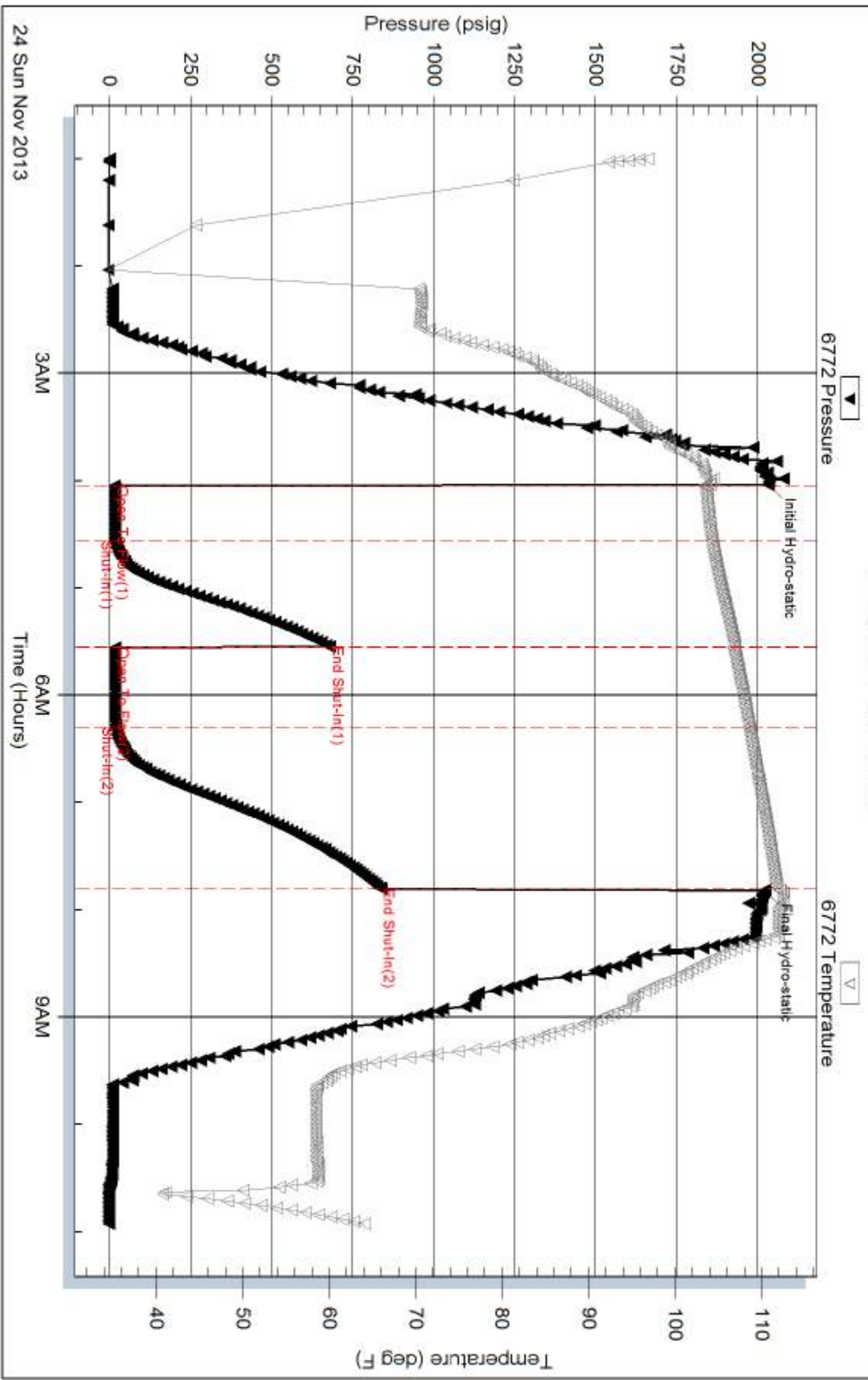
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

20-10s-31w Thomas co.

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

ATTN: Pat Deenihan

Job Ticket: 55651

DST#: 4

Test Start: 2013.11.24 @ 19:28:00

GENERAL INFORMATION:

Formation: **Lansing " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:13:45

Time Test Ended: 05:27:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4270.00 ft (KB) To 4291.00 ft (KB) (TVD)

Reference Elevations: 3022.00 ft (KB)

Total Depth: 4291.00 ft (KB) (TVD)

3014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8845 Outside

Press@RunDepth: 64.46 psig @ 4271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.24

End Date:

2013.11.25

Last Calib.: 2013.11.11

Start Time: 19:28:05

End Time:

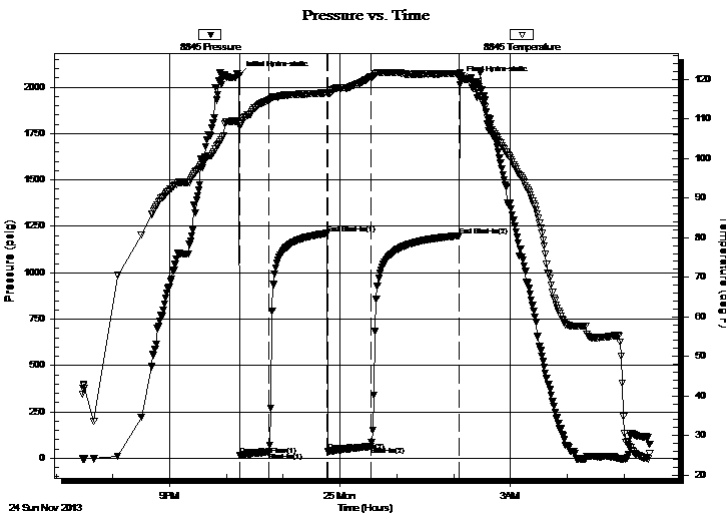
05:27:45

Time On Btm: 2013.11.24 @ 22:13:30

Time Off Btm: 2013.11.25 @ 02:06:30

TEST COMMENT: IF: 2 1/2" Blow .
IS: No Return.
FF: 1/4" Blow .
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.54	109.12	Initial Hydro-static
1	14.21	108.19	Open To Flow (1)
31	34.69	114.73	Shut-In(1)
93	1212.16	116.59	End Shut-In(1)
94	36.73	116.36	Open To Flow (2)
139	64.46	120.58	Shut-In(2)
233	1200.01	121.40	End Shut-In(2)
233	2037.87	121.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	WCM (Oil spots on top)	1.47

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Company Inc.

20-10s-31w Thomas co.

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

Job Ticket: 55651

DST#: 4

ATTN: Pat Deenihan

Test Start: 2013.11.24 @ 19:28:00

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:

80000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	WCM (Oil spots on top)	1.473

Total Length: 105.00 ft Total Volume: 1.473 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

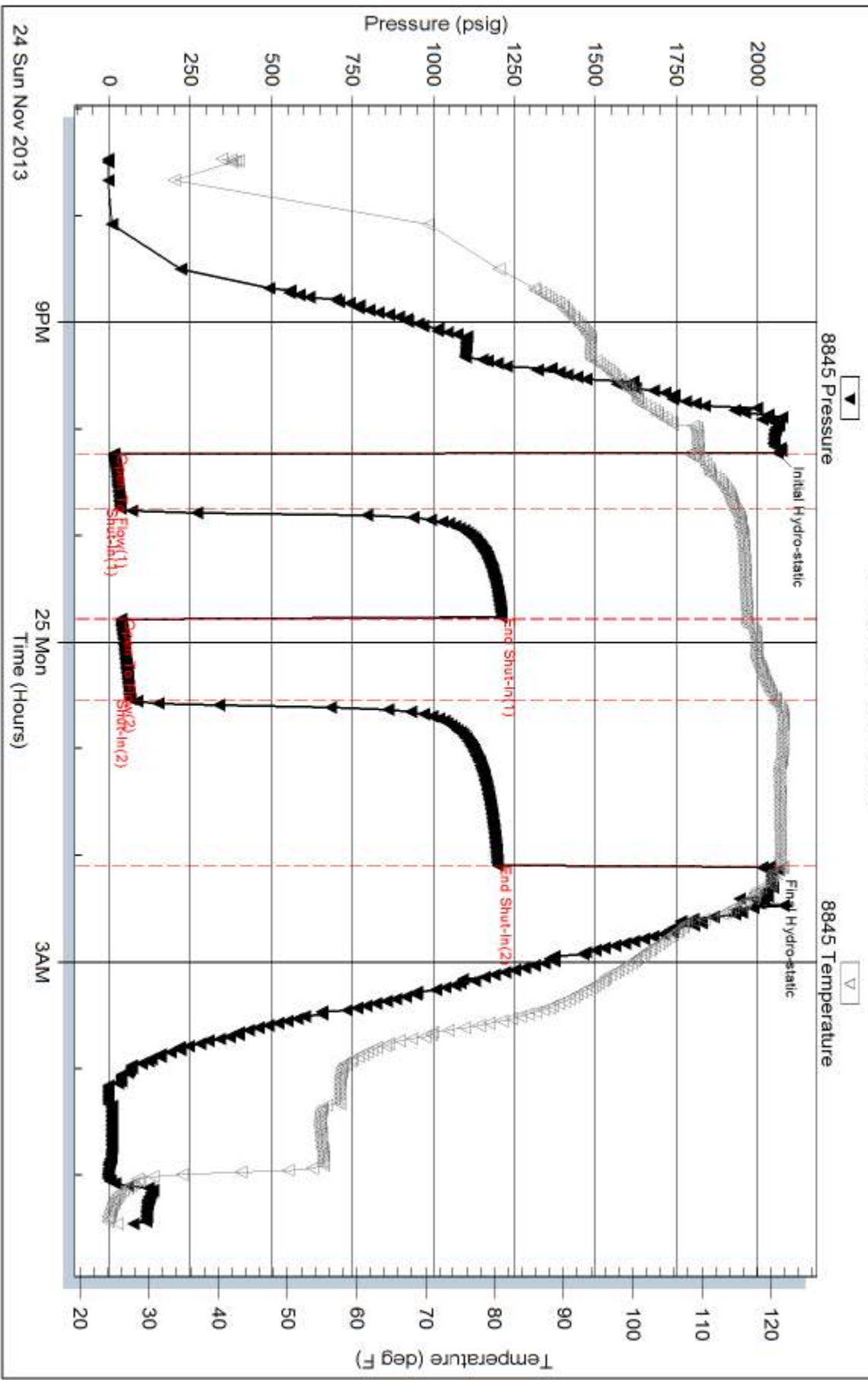
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity: .244 @ 26 Degrees= 80,000 ppm

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

20-10s-31w Thomas co.

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

ATTN: Pat Deenihan

Job Ticket: 55652

DST#: 5

Test Start: 2013.11.26 @ 10:00:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:33:15

Time Test Ended: 16:53:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4408.00 ft (KB) To 4440.00 ft (KB) (TVD)

Reference Elevations: 3022.00 ft (KB)

Total Depth: 4440.00 ft (KB) (TVD)

3014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 15.34 psig @ 4409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.26

End Date:

2013.11.26

Last Calib.:

2013.11.26

Start Time: 10:00:05

End Time:

16:53:14

Time On Btm:

2013.11.26 @ 12:33:00

Time Off Btm:

2013.11.26 @ 14:41:00

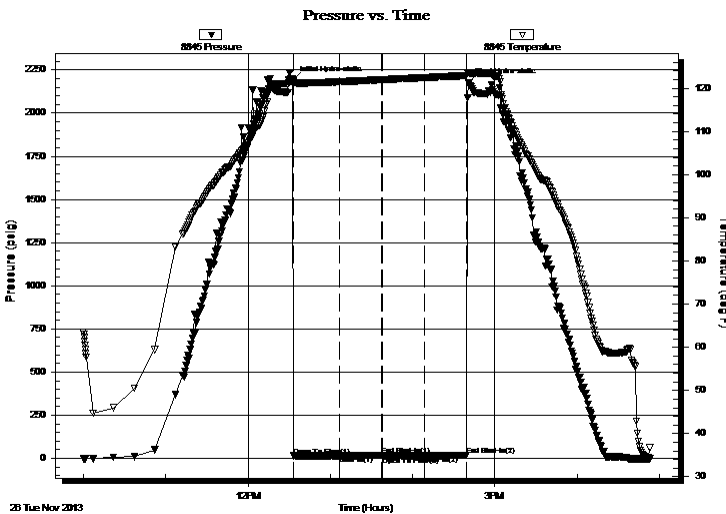
TEST COMMENT: IF: Weak Surface Blow .

IS: No Return.

FF: No Blow .

FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.47	121.59	Initial Hydro-static
1	14.62	120.79	Open To Flow (1)
34	15.62	121.49	Shut-In(1)
65	19.17	121.96	End Shut-In(1)
65	14.97	121.96	Open To Flow (2)
96	15.34	122.45	Shut-In(2)
127	16.00	122.91	End Shut-In(2)
128	2175.44	123.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Company Inc.

20-10s-31w Thomas co.

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

Job Ticket: 55652

DST#: 5

ATTN: Pat Deenihan

Test Start: 2013.11.26 @ 10:00:00

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 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

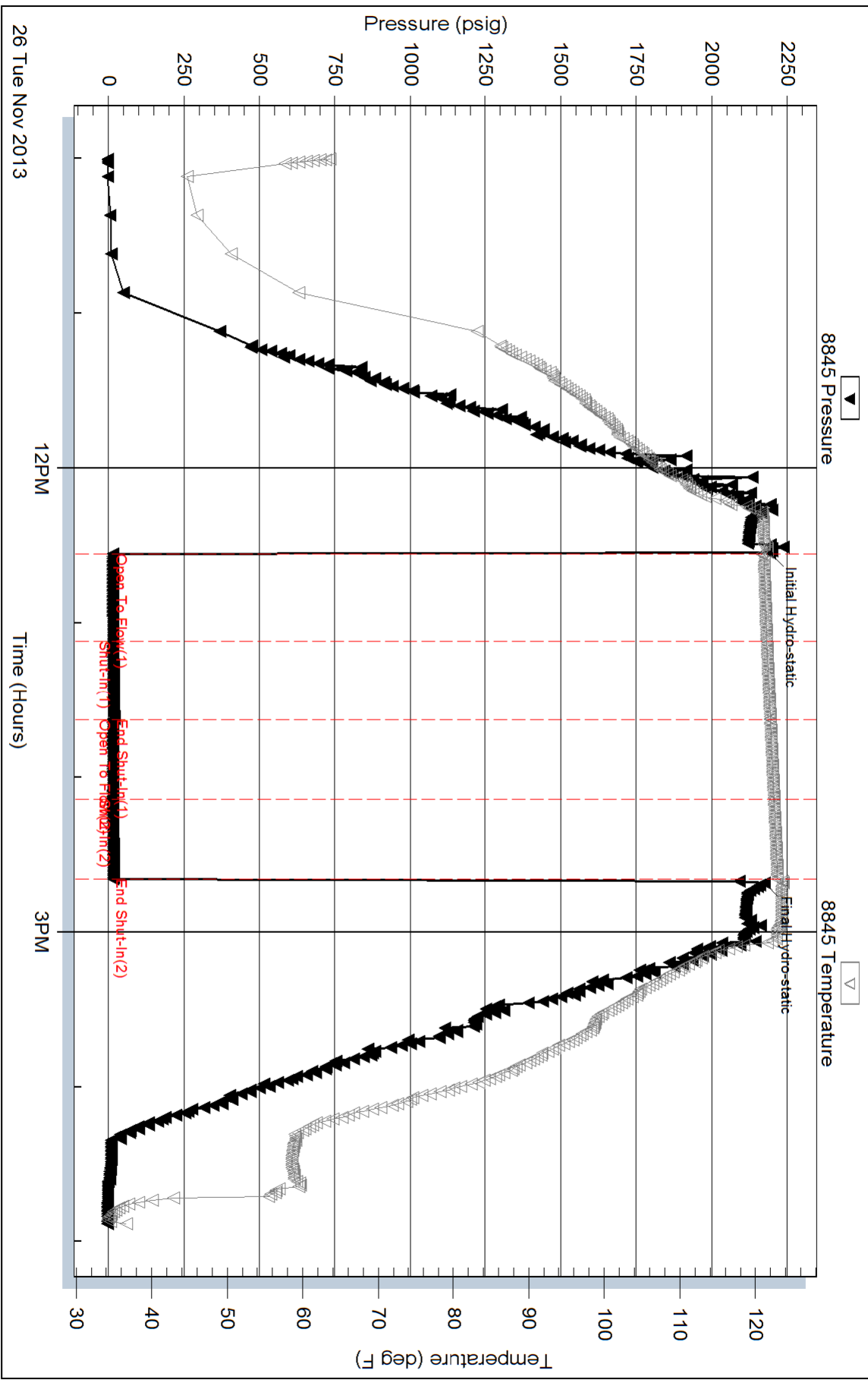
Serial #: 8845

Outside Culbreath Oil & Gas Company Inc.

Ostmeyer/Bixenman 120A

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 55652

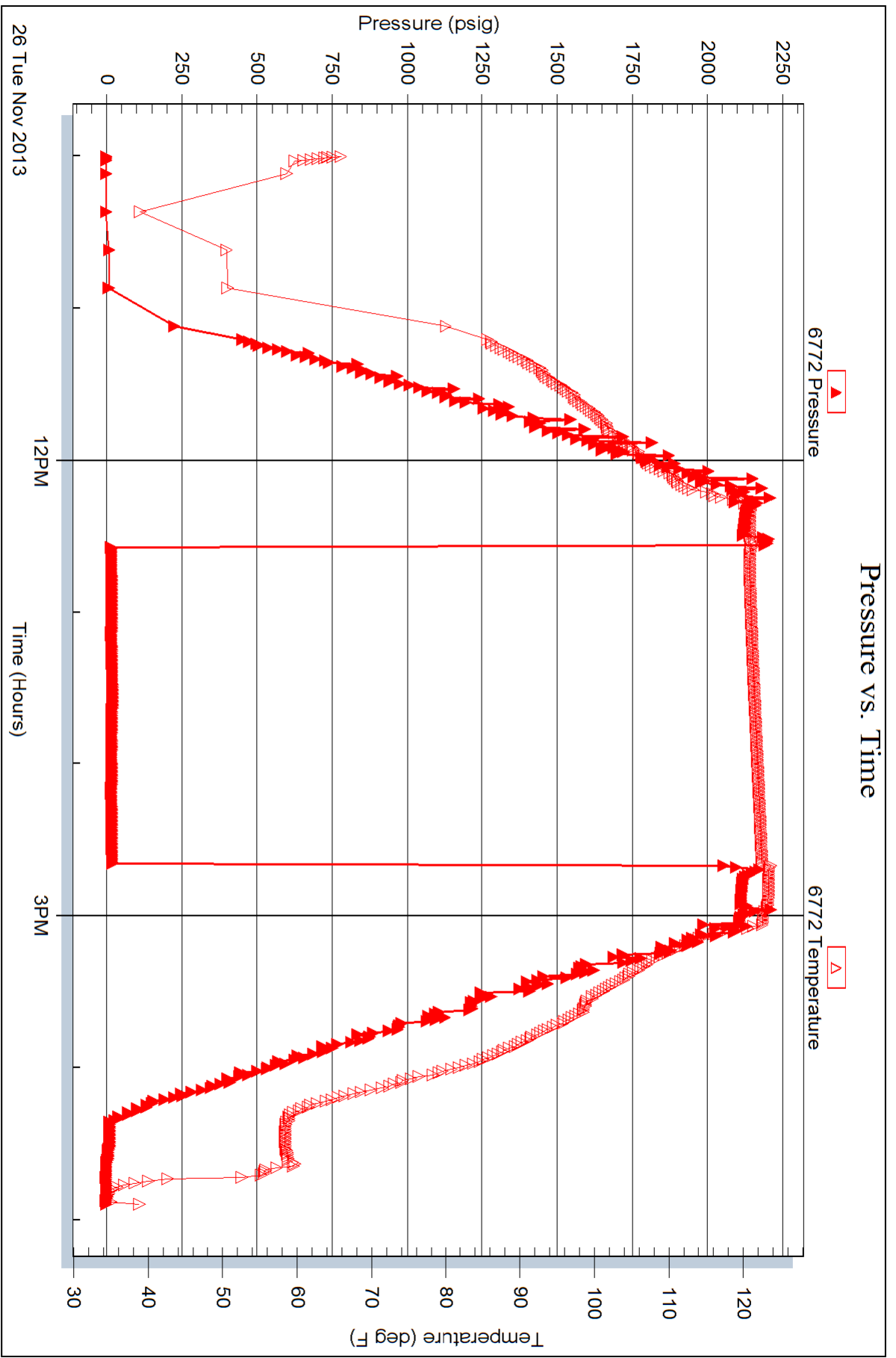
Printed: 2013.11.26 @ 20:45:32

Serial #: 6772

Outside Culbreath Oil & Gas Company Inc.

Ostmeier/Bixenman 120A

DST Test Number: 5





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

20-10s-31w Thomas,KS

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

ATTN: Pat Deenihan

Job Ticket: 55653

DST#: 6

Test Start: 2013.11.27 @ 08:32:00

GENERAL INFORMATION:

Formation: **Myrick Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:10:30

Time Test Ended: 15:56:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4443.00 ft (KB) To 4510.00 ft (KB) (TVD)

Reference Elevations: 3022.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

3014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 23.42 psig @ 4444.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.27 End Date: 2013.11.27

Last Calib.: 2013.11.27

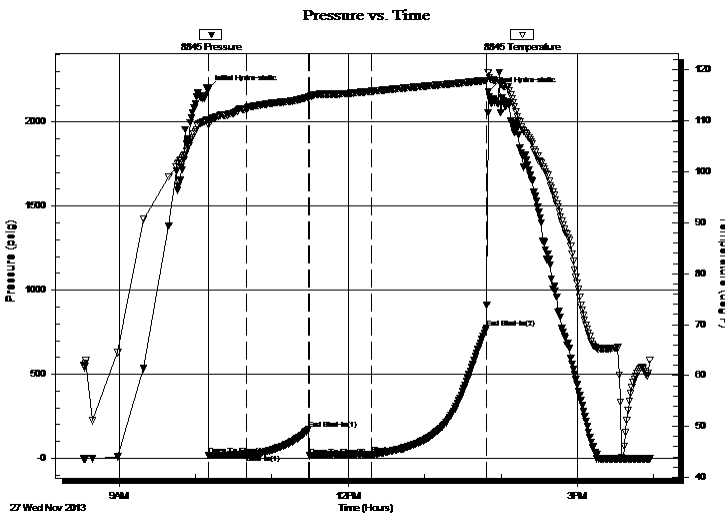
Start Time: 08:32:05 End Time: 15:56:44

Time On Btm: 2013.11.27 @ 10:10:15

Time Off Btm: 2013.11.27 @ 13:50:00

TEST COMMENT: IF: 2" Blow.
IS: No Return.
FF: 3 1/2" Blow.
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.12	110.16	Initial Hydro-static
1	16.88	109.25	Open To Flow (1)
30	22.37	112.32	Shut-In(1)
79	175.47	114.70	End Shut-In(1)
80	15.71	114.70	Open To Flow (2)
128	23.42	115.81	Shut-In(2)
219	773.46	117.93	End Shut-In(2)
220	2180.97	119.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud (Oil Spots)	0.42

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 Company Inc.

20-10s-31w Thomas,KS

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

Job Ticket: 55653

DST#: 6

ATTN: Pat Deenihan

Test Start: 2013.11.27 @ 08:32:00

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:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud (Oil Spots)	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

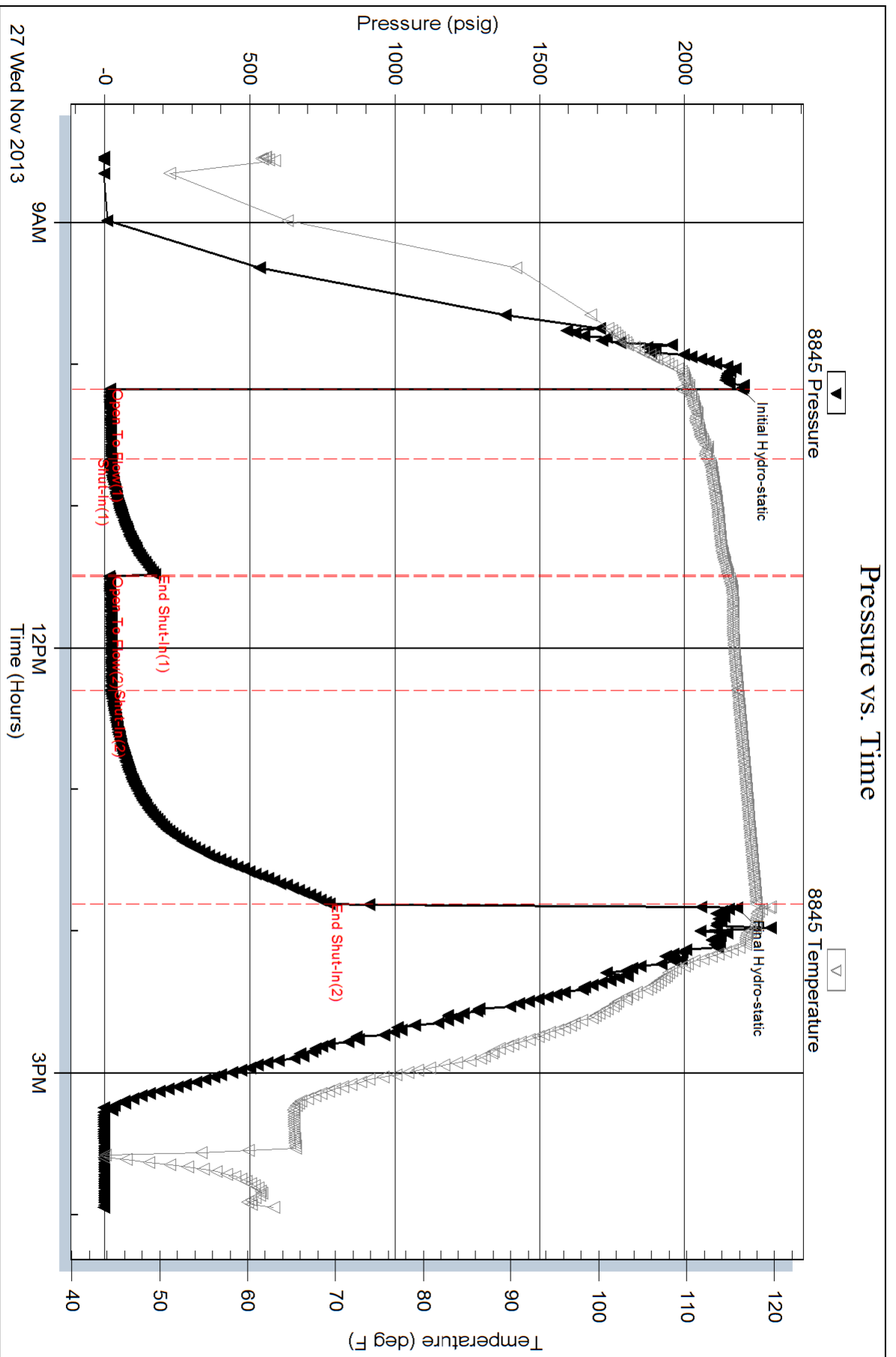
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

20-10s-31w Thomas co.

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

ATTN: Pat Deenihan

Job Ticket: 55654

DST#: 7

Test Start: 2013.11.28 @ 11:38:00

GENERAL INFORMATION:

Formation: **Johnson Basal**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:37:15

Time Test Ended: 19:03:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4556.00 ft (KB) To 4600.00 ft (KB) (TVD)

Reference Elevations: 3022.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

3014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 18.20 psig @ 4557.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.28

End Date: 2013.11.28

Last Calib.: 2013.11.28

Start Time: 11:38:05

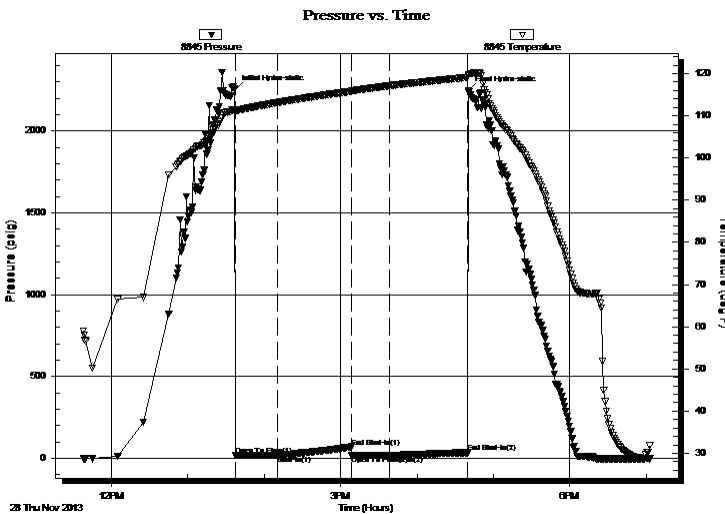
End Time: 19:03:14

Time On Btm: 2013.11.28 @ 13:37:00

Time Off Btm: 2013.11.28 @ 16:40:30

TEST COMMENT: IF: 1/4" Blow.
IS: No Return.
FF: No Blow.
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2255.74	111.51	Initial Hydro-static
1	17.79	110.67	Open To Flow (1)
33	18.97	113.11	Shut-In(1)
92	69.98	115.80	End Shut-In(1)
92	19.41	115.79	Open To Flow (2)
122	18.20	117.12	Shut-In(2)
183	35.37	119.10	End Shut-In(2)
184	2246.85	119.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Oil Spots)	0.07

* 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 Company Inc.

20-10s-31w Thomas co.

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

Job Ticket: 55654

DST#: 7

ATTN: Pat Deenihan

Test Start: 2013.11.28 @ 11:38:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 78.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (Oil Spots)	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

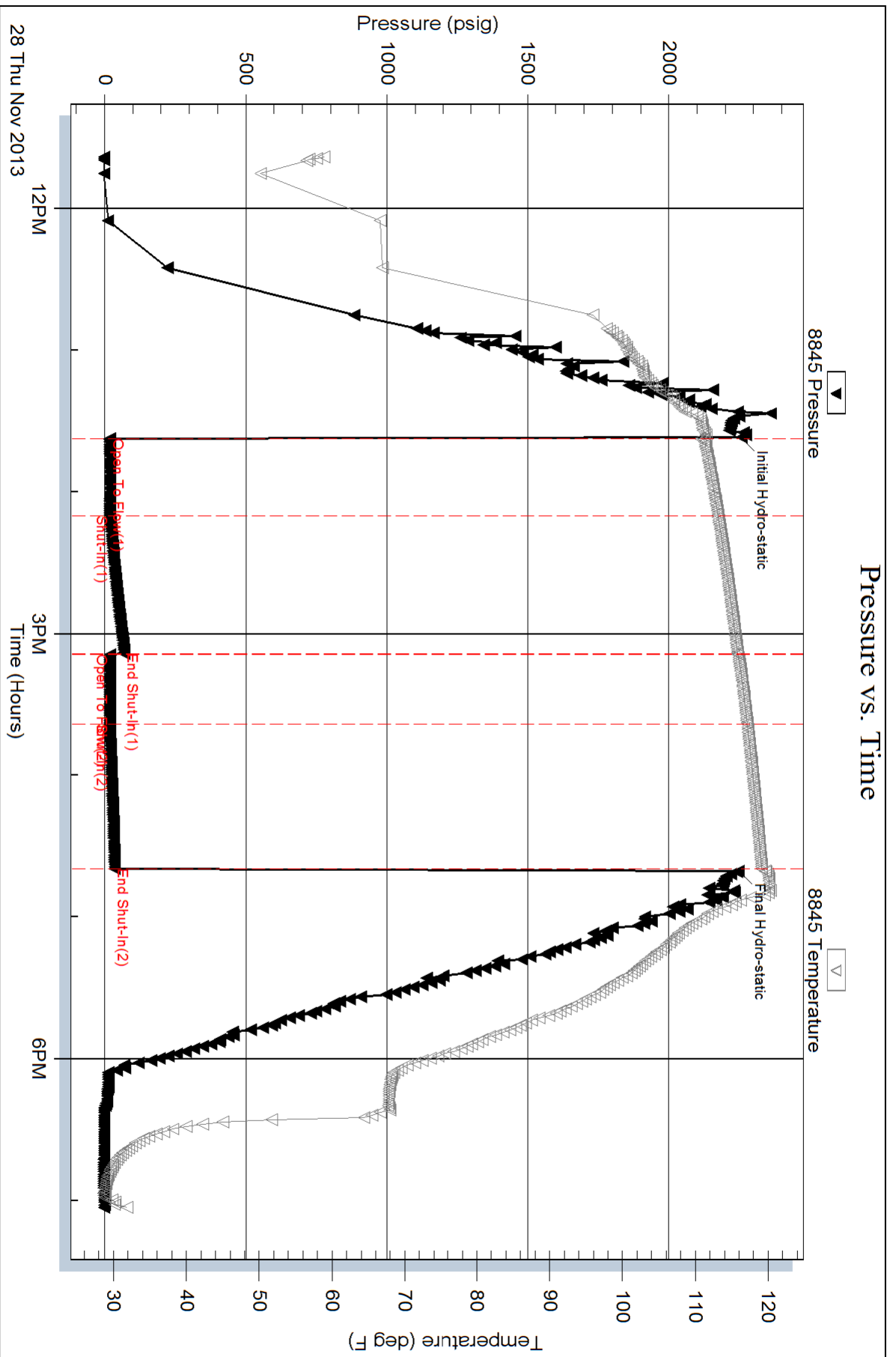
Recovery Comments:

Serial #: 8845

Outside Culbreath Oil & Gas Company Inc.

Ostmeier/Bixenman 120A

DST Test Number: 7

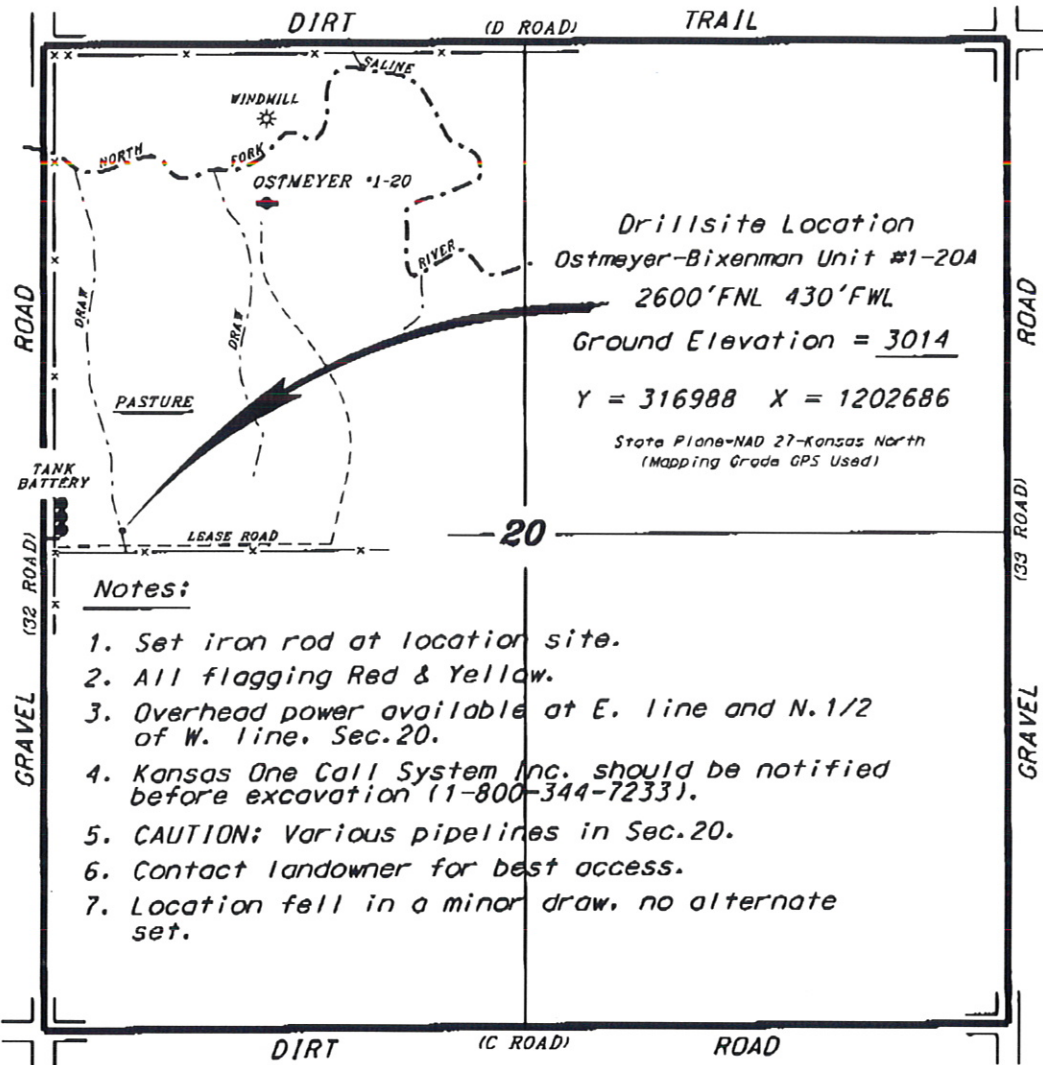


Trilobite Testing, Inc

Ref. No: 55654

Printed: 2013.11.28 @ 22:59:36

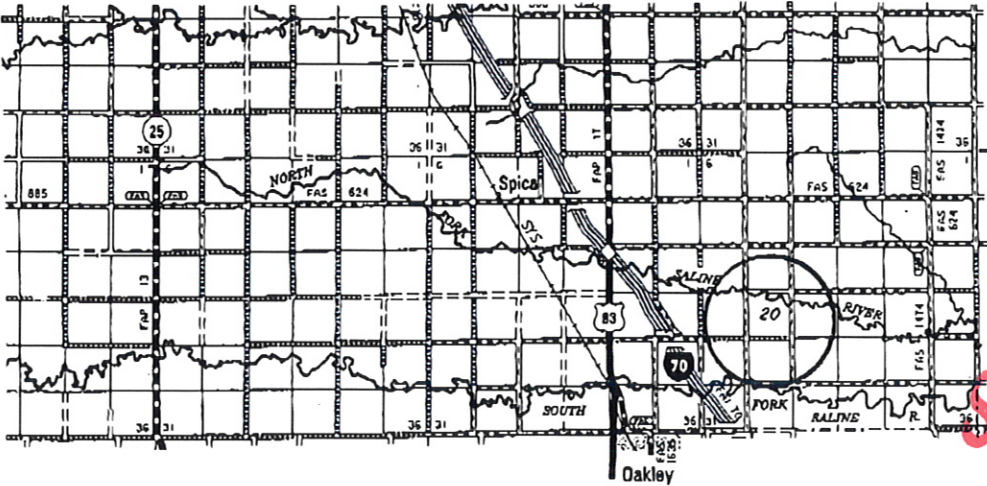
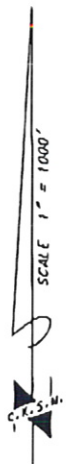
CULBREATH OIL & GAS COMPANY, INC.
OSTMEYER-BIXENMAN LEASE
NW. 1/4, SECTION 20, T10S, R31W
THOMAS COUNTY, KANSAS



Ingress and egress to location as shown on this plat is for usage only and may not be legally opened for public use. Contact landowner, tenant and county road department for access.

Notes:

1. Set iron rod at location site.
2. All flagging Red & Yellow.
3. Overhead power available at E. line and N. 1/2 of W. line. Sec.20.
4. Kansas One Call System Inc. should be notified before excavation (1-800-344-7233).
5. CAUTION; Various pipelines in Sec.20.
6. Contact landowner for best access.
7. Location fell in a minor draw, no alternate set.



SCANNED

• Controlling data is based upon the best maps and photographs available to us and upon a regular section of land containing 640 acres.

• Appropriate section lines were determined using the normal standard of care of oilfield surveyors practicing in the state of Kansas. The section corners, which establish the precise section lines, were not necessarily located, and the exact location of the drillsite location in the section is not guaranteed. Therefore, the operator securing this service and accepting this plat and all other parties relying thereon agree to hold Central Kansas Oilfield Services, Inc., its officers and employees harmless from all losses, costs and expenses and said entities released from any liability from incidental or consequential damages.

• Elevations derived from National Geodetic Vertical Datum.

Date September 26, 2013

Global Cementing LLC dba SOS LLC

18048 I-70 Road
Russell, KS 67665

Invoice

Date	Invoice #
11/15/2013	1155

Bill To
CULBREATH OIL & GAS CO INC 1532 S PEORIA AVE TULSA,OK 74120

SCANNED

P.O. No.	Terms	Project
MEYER BIXENM...	Net 30	

Quantity	Description	Rate	Amount
230	COMMON	15.50	3,565.00
8	CALCIUM	53.00	424.00
5	GEL	23.50	117.50
243	HANDLING	2.10	510.30
	BULK MILEAGE	194.40	194.40
1	TRI-PLEX PUMP CHARGE FOR SURFACE	1,050.00	1,050.00
20	PUMP TRUCK MILEAGE	6.50	130.00
20	PICKUP	2.50	50.00
	DEDUCT 15% FROM TOTAL IF PAID WITHIN 30 DAYS OF INVOICE	0.00	
	Sales Tax	0.00%	0.00

Di

Bixenmo

#71738 (2) Cement Surface Cracking

Thank you for your business.

Phone #	Fax #	E-mail
785-324-2658	785-445-3526	

Total

\$6,041.20

SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1155

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell, KS - Hwy. 9, 15

DATE <u>11-15-13</u>	SEC. <u>20</u>	TWP. <u>10</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00pm</u>	JOB FINISH <u>9:30pm</u>
LEASE <u>Meyer Biveman</u>	WELL# <u>1-20A</u>	LOCATION			COUNTY <u>Thomas</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR Landmark

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 311

CASING SIZE 8 5/8 DEPTH 296

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 300 MINIMUM 100

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20ft

PERFS

DISPLACEMENT 19.8

EQUIPMENT

PUMP TRUCK # P1 CEMENTER Heath HELPER Cody

BULK TRUCK # B1 DRIVER Mark

BULK TRUCK # DRIVER

OWNER

CEMENT AMOUNT ORDERED 230 sr com 3% CC 2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Run 7 sts of 8 5/8 casing and landing

Est Circulation

Hook up and mix 230 sr and disp 19.8 bbl of H₂O - shut in @ 300ps

Cement did circulate to surface!!

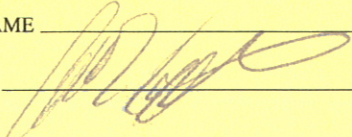
CHARGE TO: Culbreath O.I

STREET

CITY STATE ZIP

Schippers Oil Field Services, L.L.C.,
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

SIGNATURE 

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # **264438**

Invoice Date: 11/30/2013 Terms: 10/10/30,n/30 Page 1

CULBREATH OIL & GAS CO. INC
1532 S. PEORIA AVE
TULSA OK 74120
(918) 749-3508

OSTEMEYER/BIXENMAN 1-20A
44444
20-10S-31W
11-29-2013
KS

Part Number	Description	Qty	Unit Price	Total
1131	60/40 POZ MIX	205.00	15.8600	3251.30
1118B	PREMIUM GEL / BENTONITE	705.00	.2700	190.35
1107	FLO-SEAL (25#)	51.00	2.9700	151.47
4432	8 5/8" WOODEN PLUG	1.00	100.7500	100.75

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-369.39
9995-130	CEMENT EQUIPMENT DISCOUNT	-193.00

Description	Hours	Unit Price	Total
463 P & A NEW WELL	1.00	1395.00	1395.00
463 EQUIPMENT MILEAGE (ONE WAY)	20.00	5.25	105.00
466 MIN. BULK DELIVERY	1.00	430.00	430.00

*71730 (2)
Cement Surface casing?
Plugging
di*

SCANNED

Amount Due 5887.98 if paid after 12/30/2013

Parts:	3693.87	Freight:	.00	Tax:	237.70	AR	5299.18
Labor:	.00	Misc:	.00	Total:	5299.18		
Sublt:	-562.39	Supplies:	.00	Change:	.00		

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

264438

TICKET NUMBER 44444
LOCATION Oakley Ks
FOREMAN Jerry V

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

FIELD TICKET & TREATMENT REPORT

CEMENT

Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-29-13	2777	Oatmeier/Bixman 1-20A	20	10S	31W	Thomas
CUSTOMER <u>Culbreath</u>		CITY <u>Oakley Ks</u>		TRUCK #		DRIVER
MAILING ADDRESS		STATE <u>KS</u>		463		<u>Dave R</u>
CITY		ZIP CODE		466		<u>Jeremy R</u>

JOB TYPE Plug HOLE SIZE 7 7/8 HOLE DEPTH 4660 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 1 1/2 TUBING _____ OTHER _____
 SLURRY WEIGHT 1.3.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on rig up on Landmark Rig 5 plug as ordered w/ 205 sks
60/40 po2 496 gal w/ fb seal
25 sks @ 2575'
100 sks @ 1775'
40 sks @ 250'
10 sks @ 40' w/ 8 5/8 wooden plug
30 Rh

*Thank you
Jerry & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1395 ⁰⁰	1395 ⁰⁰
5406	20	MILEAGE	5 ²⁵	105 ⁰⁰
5407	8.8	ton mileage delivery (min)	430 ⁰⁰	430 ⁰⁰
1131	205 sks	60/40 po2	1586	325130
1118b	705 [#]	gel	27	19035
1107	51 [#]	fb seal	292	15142
4432	1	8 5/8 wooden plug	100 ²⁵	100 ²⁵
			Subtotal	562387
			less 10% disc.	56239
			Subtotal	506148
			SALES TAX	237.70
			ESTIMATED TOTAL	5299.18

completed

Revin 3737
 AUTHORIZATION Howard B. [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.