

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1255164
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: _____

1255164

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Gulf Exploration, LLC
Well Name	Goetsch 1-3
Doc ID	1255164

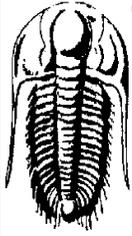
All Electric Logs Run

ACR
DSND
BHSC
MICRO

Form	ACO1 - Well Completion
Operator	Gulf Exploration, LLC
Well Name	Goetsch 1-3
Doc ID	1255164

Tops

Name	Top	Datum
Anhydrite	2908	+412
Topeka	3922	-598
Lansing	4148	-824
J Zone	4323	-999
K Zone	4351	-1027
Base KC	4410	-1086
Marmaton A	4437	-1113
Pawnee	4517	1193
Cherokee	4580	-1256
Mississippian	4778	-1454
Arbuckle	5028	-1704
W Granite	5386	-2062
Fresh Granite	5512	-2188
TD	5570	-2240



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Gulf Exploration
9701 N. Broadway Extension
Oklahoma City, OK 73114
ATTN: Mike Madcharo

3/7S/36W

Goetsch #1-3

Job Ticket: 62287

DST#: 1

Test Start: 2015.05.30 @ 08:30:00

GENERAL INFORMATION:

Formation: **Tarkio - Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:22:00

Time Test Ended: 15:23:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: **3750.00 ft (KB) To 3940.00 ft (KB) (TVD)**

Total Depth: 3940.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3324.00 ft (KB)

3313.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press @ Run Depth: 106.55 psig @ 3751.00 ft (KB)

Start Date: 2015.05.30

End Date:

2015.05.30

Start Time: 08:30:01

End Time:

15:23:30

Capacity: 8000.00 psig

Last Calib.: 2015.05.30

Time On Btm: 2015.05.30 @ 10:20:00

Time Off Btm: 2015.05.30 @ 13:25:00

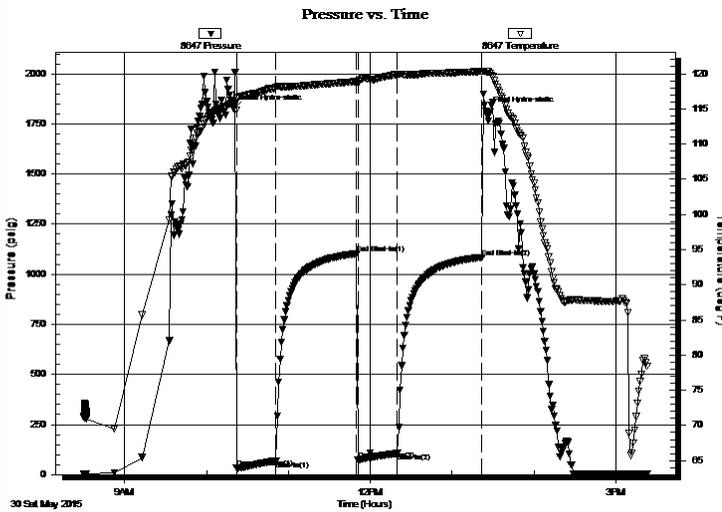
TEST COMMENT: 30 - IF - Opened w/ surface blow, built to 2"

60 - ISI - No Return

30 - FF - No Blow

60 - FSI - No Return

PRESSURE SUMMARY



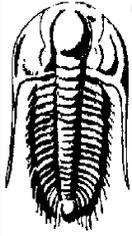
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.92	115.94	Initial Hydro-static
2	33.60	114.86	Open To Flow (1)
31	68.08	118.08	Shut-In(1)
90	1102.35	118.87	End Shut-In(1)
91	73.36	118.69	Open To Flow (2)
120	106.55	119.88	Shut-In(2)
182	1083.40	120.33	End Shut-In(2)
185	1811.79	120.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	100% mud w/ oil spots in tool	0.66

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gulf Exploration

3/7S/36W

9701 N.Broadway Extension
Oklahoma City, OK 73114

Goetsch #1-3

Job Ticket: 62287

DST#: 1

ATTN: Mike Madcharo

Test Start: 2015.05.30 @ 08:30:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
135.00	100% mud w / oil spots in tool	0.664

Total Length: 135.00 ft Total Volume: 0.664 bbl

Num Fluid Samples: 0

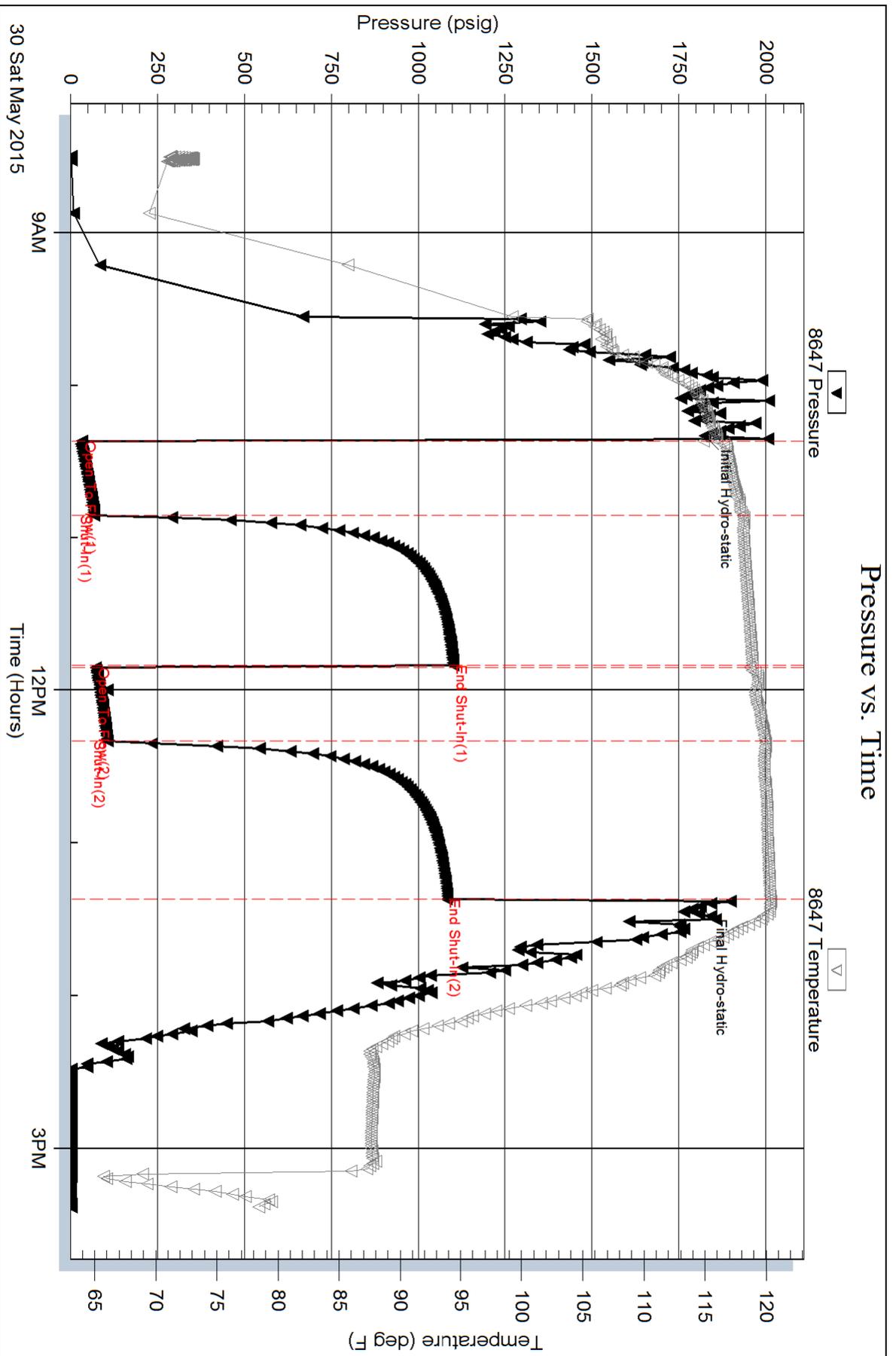
Num Gas Bombs: 0

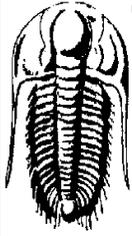
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Slight smell of gas at bottom collar





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Gulf Exploration
9701 N. Broadway Extension
Oklahoma City, OK 73114
ATTN: Mike Madcharo

3/7S/36W

Goetsch #1-3

Job Ticket: 62288

DST#: 2

Test Start: 2015.05.31 @ 21:25:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:33:30

Time Test Ended: 04:40:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: 4101.00 ft (KB) To 4275.00 ft (KB) (TVD)

Reference Elevations: 3324.00 ft (KB)

Total Depth: 4275.00 ft (KB) (TVD)

3313.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press @ Run Depth: 1055.79 psig @ 4102.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.31

End Date:

2015.06.01

Last Calib.:

2015.06.01

Start Time: 21:25:01

End Time:

04:40:30

Time On Btm:

2015.05.31 @ 23:32:30

Time Off Btm:

2015.06.01 @ 02:02:30

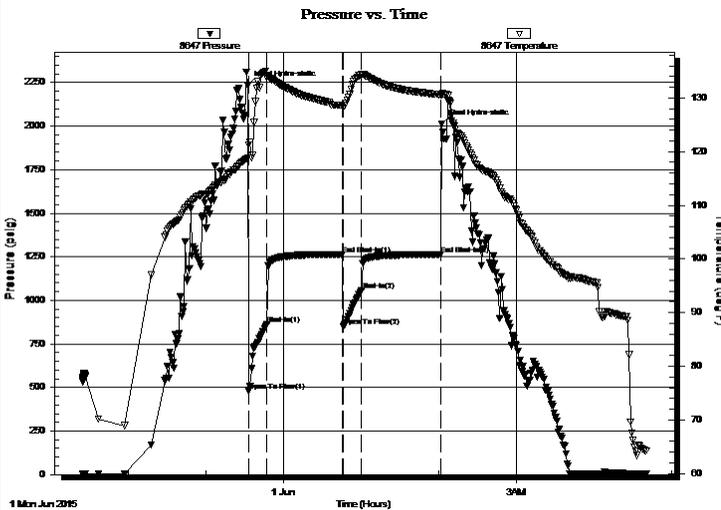
TEST COMMENT: 15 - IF - Opened w/surface blow, built to B.o.B in less than a minute

60 - ISI - No Return

15 - FF - Blow built to B.o.B in less than a minute

60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.30	118.80	Initial Hydro-static
1	480.83	121.18	Open To Flow (1)
15	864.24	133.85	Shut-In(1)
73	1264.84	128.65	End Shut-In(1)
74	852.33	128.08	Open To Flow (2)
88	1055.79	134.38	Shut-In(2)
149	1264.06	130.61	End Shut-In(2)
150	2011.32	130.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
984.00	SMW 90%w, 10%m	11.87
496.00	MW 60%w, 40%m	6.96
464.00	100%m	6.51

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gulf Exploration

3/7S/36W

9701 N.Broadway Extension
Oklahoma City, OK 73114

Goetsch #1-3

Job Ticket: 62288

DST#: 2

ATTN: Mike Madcharo

Test Start: 2015.05.31 @ 21:25:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
984.00	SMW 90%w , 10%m	11.867
496.00	MW 60%w , 40%m	6.958
464.00	100%m	6.509

Total Length: 1944.00 ft Total Volume: 25.334 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

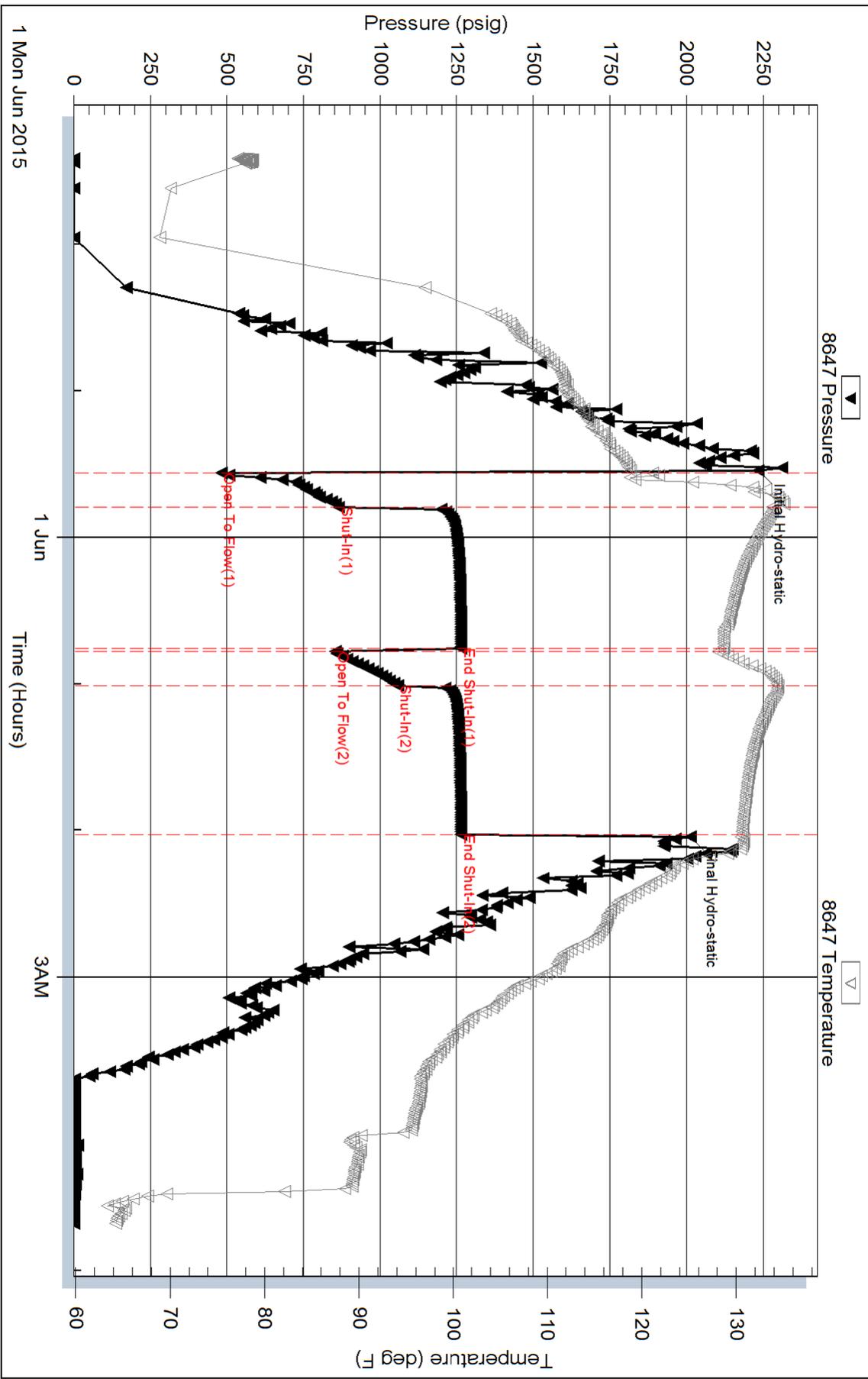
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .126 @ 55F Chlorides 80,000ppm

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gulf Exploration
 9701 N. Broadway Extension
 Oklahoma City, OK 73114
 ATTN: Mike Madcharo

3/7S/36W
Goetsch #1-3
 Job Ticket: 62289 **DST#: 3**
 Test Start: 2015.06.01 @ 17:22:00

GENERAL INFORMATION:

Formation: **LKC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:00:30
 Time Test Ended: 00:21:00
 Interval: **4278.00 ft (KB) To 4355.00 ft (KB) (TVD)**
 Total Depth: 4355.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Quintana
 Unit No: 57
 Reference Elevations: 3324.00 ft (KB)
 3313.00 ft (CF)
 KB to GR/CF: 11.00 ft

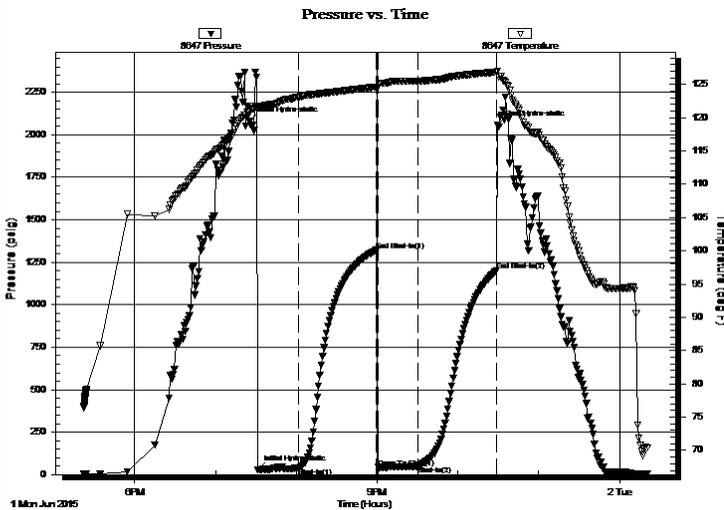
Serial #: 8647

Inside

Press @ Run Depth: 51.94 psig @ 4279.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.06.01 End Date: 2015.06.02 Last Calib.: 2015.06.02
 Start Time: 17:22:01 End Time: 00:21:00 Time On Btm: 2015.06.01 @ 19:25:30
 Time Off Btm: 2015.06.01 @ 22:29:30

TEST COMMENT: 30 - IF Opened w/ surface blow, didn't build
 60 - ISI - No Return
 30 - FF - No Blow
 60 - FSI - No Return

PRESSURE SUMMARY



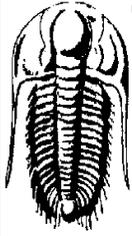
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2079.01	121.12	Initial Hydro-static
6	28.48	121.49	Initial Hydro-static
36	37.40	123.10	Shut-In(1)
94	1321.58	124.59	End Shut-In(1)
95	42.86	124.53	Open To Flow (1)
125	51.94	125.47	Shut-In(2)
183	1199.40	126.82	End Shut-In(2)
184	2055.06	127.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% mud w/ oil spots	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gulf Exploration

3/7S/36W

9701 N.Broadway Extension
Oklahoma City, OK 73114

Goetsch #1-3

Job Ticket: 62289

DST#: 3

ATTN: Mike Madcharo

Test Start: 2015.06.01 @ 17:22:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100% mud w/oil spots	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

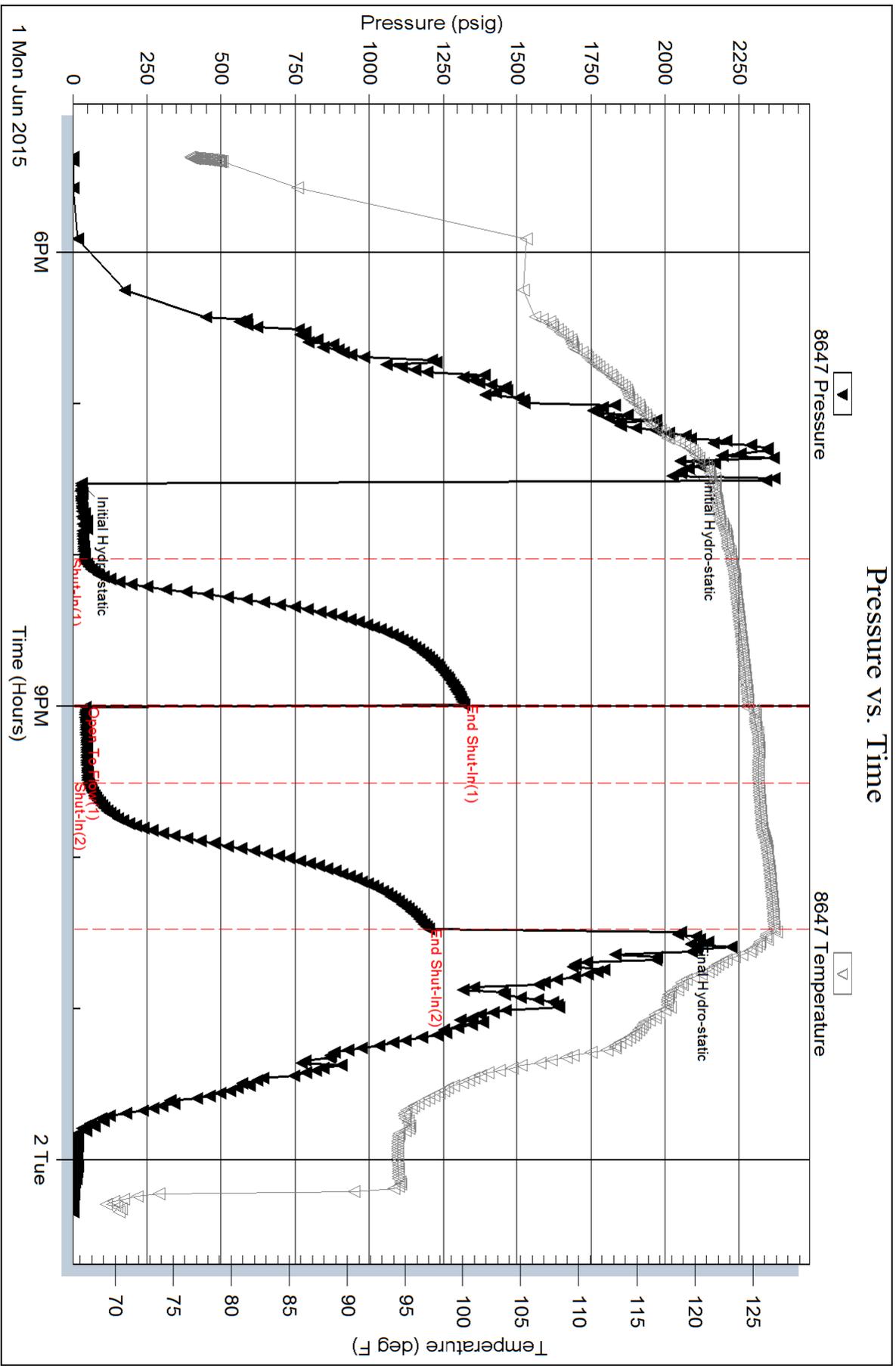
Num Gas Bombs: 0

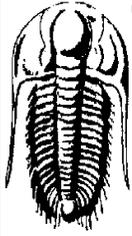
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gulf Exploration
 9701 N.Broadway Extension
 Oklahoma City, OK 73114
 ATTN: Mike Madcharo

3/7S/36W

Goetsch #1-3

Job Ticket: 62290

DST#: 4

Test Start: 2015.06.02 @ 11:36:00

GENERAL INFORMATION:

Formation: **LKC "L&M"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:56:30
 Time Test Ended: 18:59:00
 Interval: **4337.00 ft (KB) To 4424.00 ft (KB) (TVD)**
 Total Depth: 4424.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Quintana
 Unit No: 57
 Reference Elevations: 3324.00 ft (KB)
 3313.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

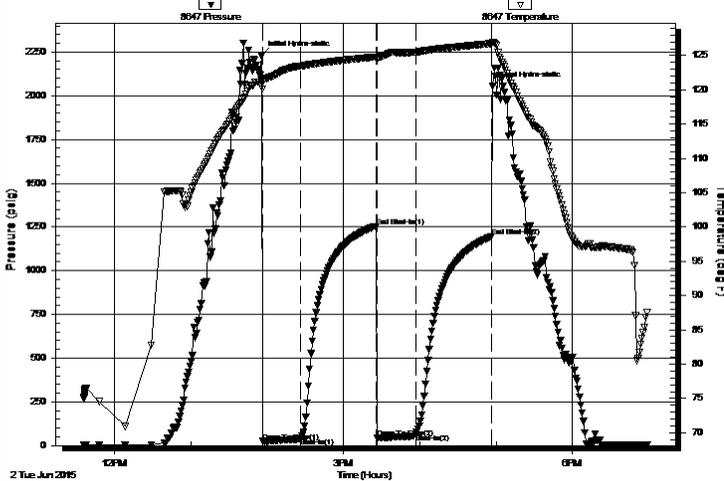
Press @ Run Depth: 66.42 psig @ 4338.00 ft (KB)
 Start Date: 2015.06.02 End Date: 2015.06.02
 Start Time: 11:36:01 End Time: 18:59:00
 Capacity: 8000.00 psig
 Last Calib.: 2015.06.02
 Time On Btm: 2015.06.02 @ 13:55:30
 Time Off Btm: 2015.06.02 @ 16:57:30

TEST COMMENT: 30 - IF - Opened w/surface blow , built to 1 1/8"
 60 - ISI - No Return
 30 - FF - No Blow
 60 - FSI - No Return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.20	121.40	Initial Hydro-static
1	23.98	120.10	Open To Flow (1)
31	42.12	123.49	Shut-In(1)
90	1253.77	124.82	End Shut-In(1)
91	43.24	124.54	Open To Flow (2)
121	66.42	125.51	Shut-In(2)
181	1197.05	126.75	End Shut-In(2)
182	2054.36	126.98	Final Hydro-static

Pressure vs. Time

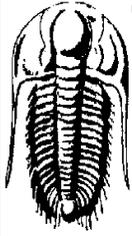


Recovery

Length (ft)	Description	Volume (bbl)
61.00	OCM 90% m, 10% o w/a layer of free oil	tc0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gulf Exploration

3/7S/36W

9701 N.Broadway Extension
Oklahoma City, OK 73114

Goetsch #1-3

Job Ticket: 62290

DST#: 4

ATTN: Mike Madcharo

Test Start: 2015.06.02 @ 11:36:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	OCM 90% _m , 10% _o w/a layer of free oil top	0.300

Total Length: 61.00 ft Total Volume: 0.300 bbl

Num Fluid Samples: 0

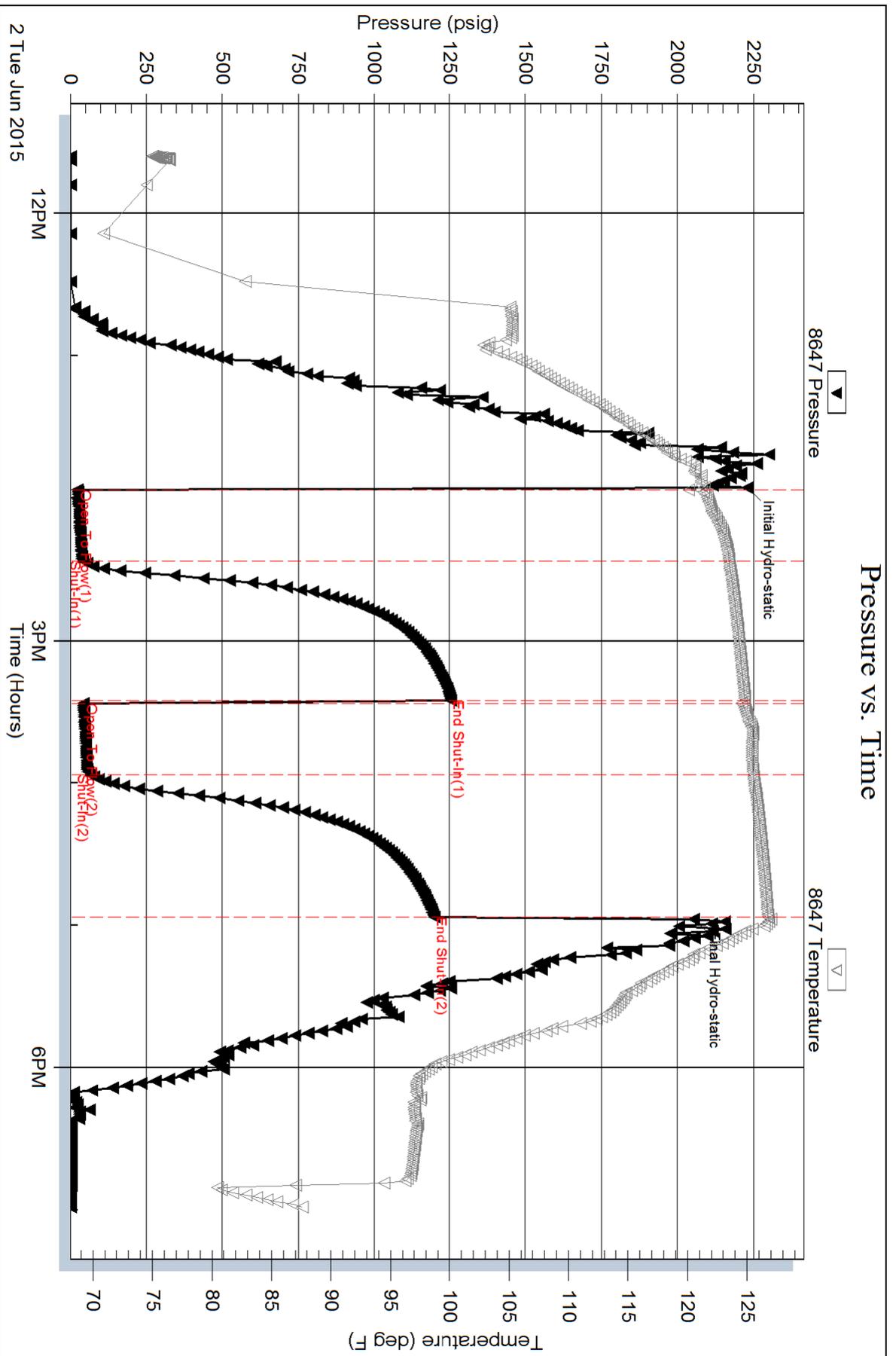
Num Gas Bombs: 0

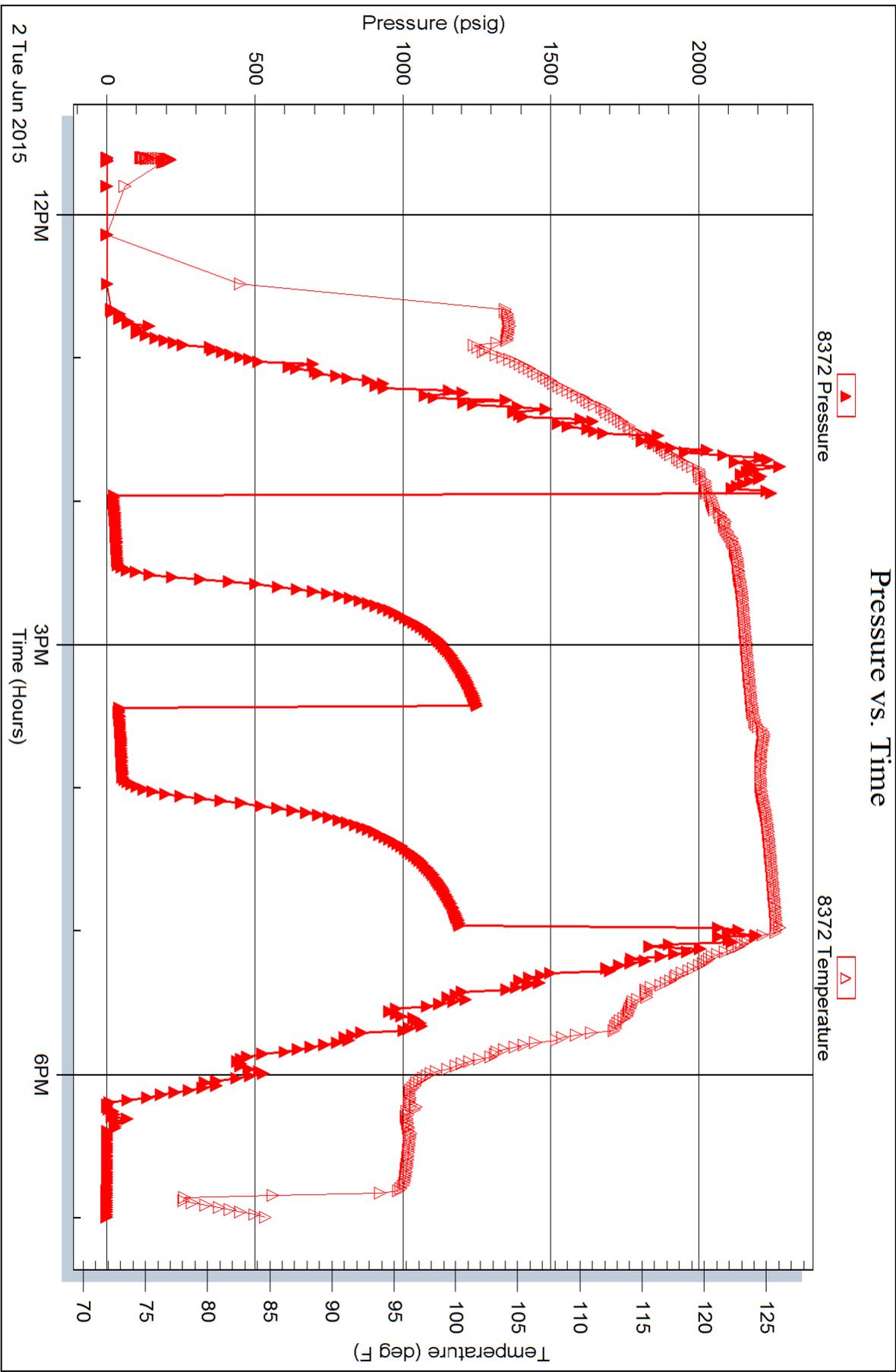
Serial #:

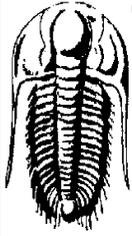
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gulf Exploration
 9701 N. Broadw ay Extension
 Oklahoma City, OK 73114
 ATTN: Mike Madcharo

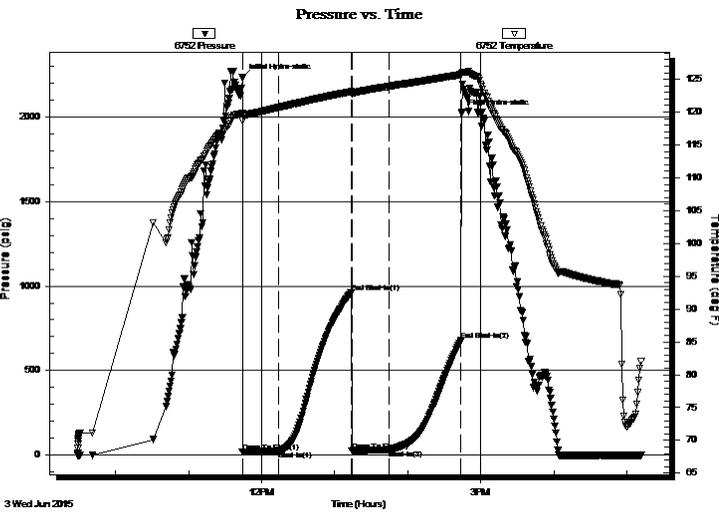
3/7S/36W
Goetsch #1-3
 Job Ticket: 62582 **DST#: 5**
 Test Start: 2015.06.03 @ 09:29:00

GENERAL INFORMATION:

Formation: **Upper Marmaton - Paw**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 11:44:20 Tester: Ryan Nichols
 Time Test Ended: 17:11:50 Unit No: 78
 Interval: **4435.00 ft (KB) To 4538.00 ft (KB) (TVD)** Reference Elevations: 3324.00 ft (KB)
 Total Depth: 4538.00 ft (KB) (TVD) 3313.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 6752 Outside
 Press @ Run Depth: 28.99 psig @ 4436.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.06.03 End Date: 2015.06.03 Last Calib.: 2015.06.03
 Start Time: 09:29:01 End Time: 17:11:50 Time On Btm: 2015.06.03 @ 11:44:10
 Time Off Btm: 2015.06.03 @ 14:44:20

TEST COMMENT: 30 IF - Surface blow died @ 22 mins
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.41	119.78	Initial Hydro-static
1	17.78	118.71	Open To Flow (1)
31	22.77	120.71	Shut-In(1)
90	963.45	123.10	End Shut-In(1)
90	25.12	122.74	Open To Flow (2)
121	28.99	123.91	Shut-In(2)
180	677.56	125.71	End Shut-In(2)
181	2021.17	125.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w ith Oil spots - 100%m	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Gulf Exploration

3/7S/36W

9701 N. Broadway Extension
Oklahoma City, OK 73114

Goetsch #1-3

Job Ticket: 62582

DST#: 5

ATTN: Mike Madcharo

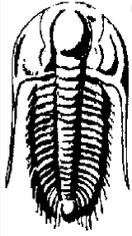
Test Start: 2015.06.03 @ 09:29:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
		0.00	0.00	0.00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gulf Exploration
 9701 N. Broadw ay Extension
 Oklahoma City, OK 73114
 ATTN: Mike Madcharo

3/7S/36W
Goetsch #1-3
 Job Ticket: 62583 **DST#: 6**
 Test Start: 2015.06.04 @ 12:19:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:11:50
 Time Test Ended: 19:17:50

Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 78

Interval: 4662.00 ft (KB) To 4682.00 ft (KB) (TVD)
 Total Depth: 4682.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3324.00 ft (KB)
 3313.00 ft (CF)
 KB to GR/CF: 11.00 ft

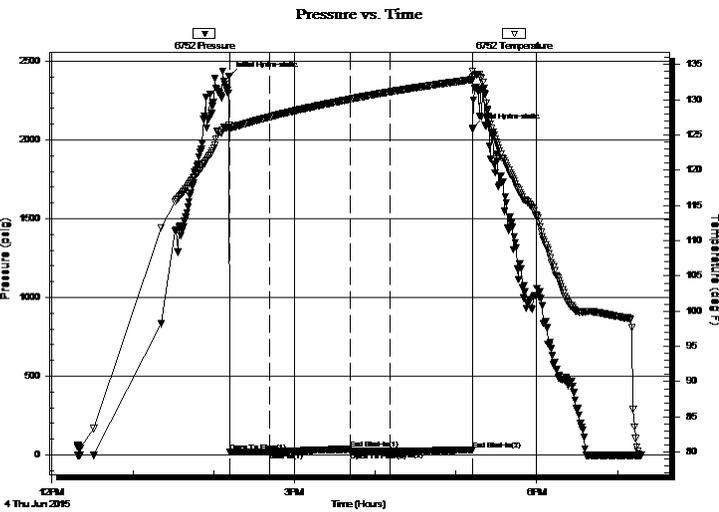
Serial #: 6752

Inside

Press @ Run Depth: 23.02 psig @ 4663.00 ft (KB)
 Start Date: 2015.06.04 End Date: 2015.06.04
 Start Time: 12:19:01 End Time: 19:17:50

Capacity: 8000.00 psig
 Last Calib.: 2015.06.04
 Time On Btm: 2015.06.04 @ 14:11:40
 Time Off Btm: 2015.06.04 @ 17:12:39

TEST COMMENT: 30 IF - Surface blow died @ 21 mins
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2404.03	126.40	Initial Hydro-static
1	18.91	125.84	Open To Flow (1)
30	21.30	127.54	Shut-In(1)
90	37.01	130.04	End Shut-In(1)
90	21.91	130.05	Open To Flow (2)
120	23.02	131.11	Shut-In(2)
181	31.37	132.86	End Shut-In(2)
181	2073.50	133.18	Final Hydro-static

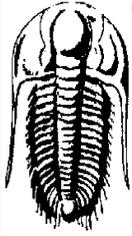
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spots 100%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gulf Exploration

3/7S/36W

9701 N.Broadway Extension
Oklahoma City, OK 73114

Goetsch #1-3

Job Ticket: 62583

DST#: 6

ATTN: Mike Madcharo

Test Start: 2015.06.04 @ 12:19:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w / oil spots 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sample Chamber = 2500 Mud w / oil spots ML - 2500 ML total
80 PSI

