



KANSAS CORPORATION COMMISSION 1069009  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- 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

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

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

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

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

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

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1069009

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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	New Gulf Operating LLC
Well Name	Zerr 1
Doc ID	1069009

Tops

Name	Top	Datum
Anhydrite	+477	478
B/anhydrite	+454	454
Stotler	-618	-616
Topeka	-742	-742
Heebner	-964	-964
Toronto	-992	-992
Lansing	-1004	-1004
Muncie Creek	-1150	-1150
Stark SH	-1236	-1236
B/KC	-1294	-1300
Pawnee	-1426	-1432
Cherokee	-1505	-1512
Johnson	-1537	-1546
Morrow	NC	-1578
Miss	-1574	-1584

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 09, 2012

New Gulf Operating LLC  
6310 E. 102nd St.  
TULSA, OK 74137

Re: ACO1  
API 15-109-21036-00-00  
Zerr 1  
SE/4 Sec.17-12S-32W  
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,



**CONSOLIDATED OIL WELL SERVICES, LLC**

TICKET NUMBER 28219  
 LOCATION OKLA  
 FOREMAN Fuzz

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8876

**FIELD TICKET & TREATMENT REPORT  
 CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-20-11	5661	Zerr #1	17	125	3Rw	Logan
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
New Gulf Operating			462	Cohn H		
MAILING ADDRESS			439	Cody R		
CITY						
STATE						
ZIP CODE						

OKLA  
 S S  
 3 W  
 3 S  
 G+W  
 2 1/2

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 269' CASING SIZE & WEIGHT 8 5/8  
 CASING DEPTH 269' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.7 SLURRY VOL. 1.36 WATER gal/sk 6.5 CEMENT LEFT in CASING 15'  
 DISPLACEMENT 16.1 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on Oct 4, Rig up & circulate.  
Mix 200 SPS Class 'A' 390cc 20 gal. Drop plug and  
displace 16 BBS and shut in. Cement did  
circulate approx 6 BBS to pit.

Thanks Fuzz  
 crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405	1	PUMP CHARGE	1025 <sup>00</sup>	1025 <sup>00</sup>
5406	10	MILEAGE	5 <sup>00</sup>	50 <sup>00</sup>
5407	9.4 Ton	Tow Mileage Delivery (min)	410 <sup>00</sup>	410 <sup>00</sup>
11045	200 SPS	Class 'A' cement	16 <sup>00</sup>	3360 <sup>00</sup>
1102	564 lb	Calcium Chloride	.84	473 <sup>24</sup>
11188	376 #	Bentonite	.24	90 <sup>24</sup>
4432	1	8 5/8 plug	96 <sup>00</sup>	96 <sup>00</sup>
		Subtotal		5505 <sup>00</sup>
		less 1000 disc		550 <sup>50</sup>
				4954 <sup>50</sup>
		244439	SALES TAX	282 <sup>20</sup>
			ESTIMATED TOTAL	5236 <sup>70</sup>

Revised 3/7/77  
 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.



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

New Gulf Operating LLC

**17-12-32**

6310 E 102nd ST  
Tulsa OK, 74137

**Zerr 1**

Job Ticket: 042141

**DST#: 1**

ATTN: Curtis Covey

Test Start: 2011.09.25 @ 04:40:00

## GENERAL INFORMATION:

Formation: **Lansing "A-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:34:30

Time Test Ended: 13:31:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 28

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

Reference Elevations: 3004.00 ft (KB)

Total Depth: 4108.00 ft (KB) (TVD)

2994.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 8675**

**Inside**

Press @ Run Depth: 484.87 psig @ 4004.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.25

End Date:

2011.09.25

Last Calib.:

2011.09.25

Start Time: 04:40:01

End Time:

13:31:45

Time On Btm:

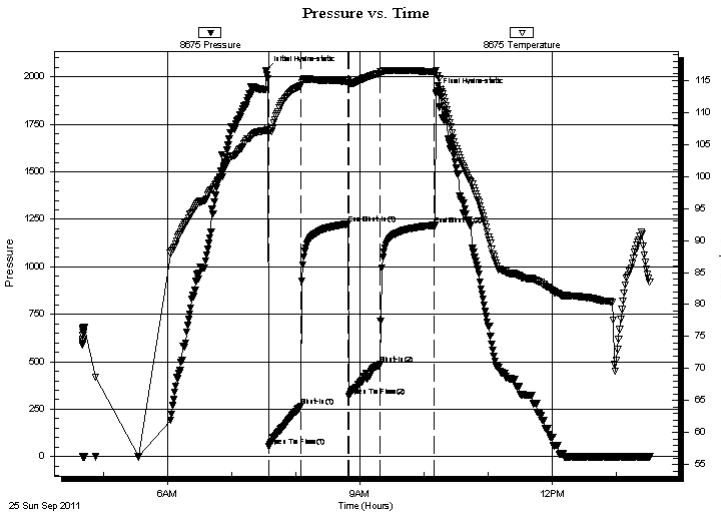
2011.09.25 @ 07:32:00

Time Off Btm:

2011.09.25 @ 10:11:00

**TEST COMMENT:** B.O.B. in 4 1/2 min.  
Built to 1" return blow  
B.O.B. in 5 min.  
Weak surface return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.45	107.19	Initial Hydro-static
3	54.07	107.17	Open To Flow (1)
33	264.55	114.18	Shut-In(1)
77	1225.52	114.90	End Shut-In(1)
78	316.83	114.33	Open To Flow (2)
107	484.87	116.11	Shut-In(2)
158	1219.22	116.38	End Shut-In(2)
159	1916.80	116.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% Free Oil	0.21
310.00	gcow m 10%G 20%O 30%W 40%M	4.35
372.00	ocgw m 10%O 20%G 20%W 50%M	5.22
186.00	gcomw 10%G 20%O 30%M 40%W	2.61

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

New Gulf Operating LLC

**17-12-32**

6310 E 102nd ST  
Tulsa OK, 74137

**Zerr 1**

Job Ticket: 042141

**DST#: 1**

ATTN: Curtis Covey

Test Start: 2011.09.25 @ 04:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	100% Free Oil	0.210
310.00	gcow m 10%G 20%O 30%W 40%M	4.348
372.00	ocgw m 10%O 20%G 20%W 50%M	5.218
186.00	gcomw 10%G 20%O 30%M 40%W	2.609

Total Length: 883.00 ft      Total Volume: 12.385 bbl

Num Fluid Samples: 0

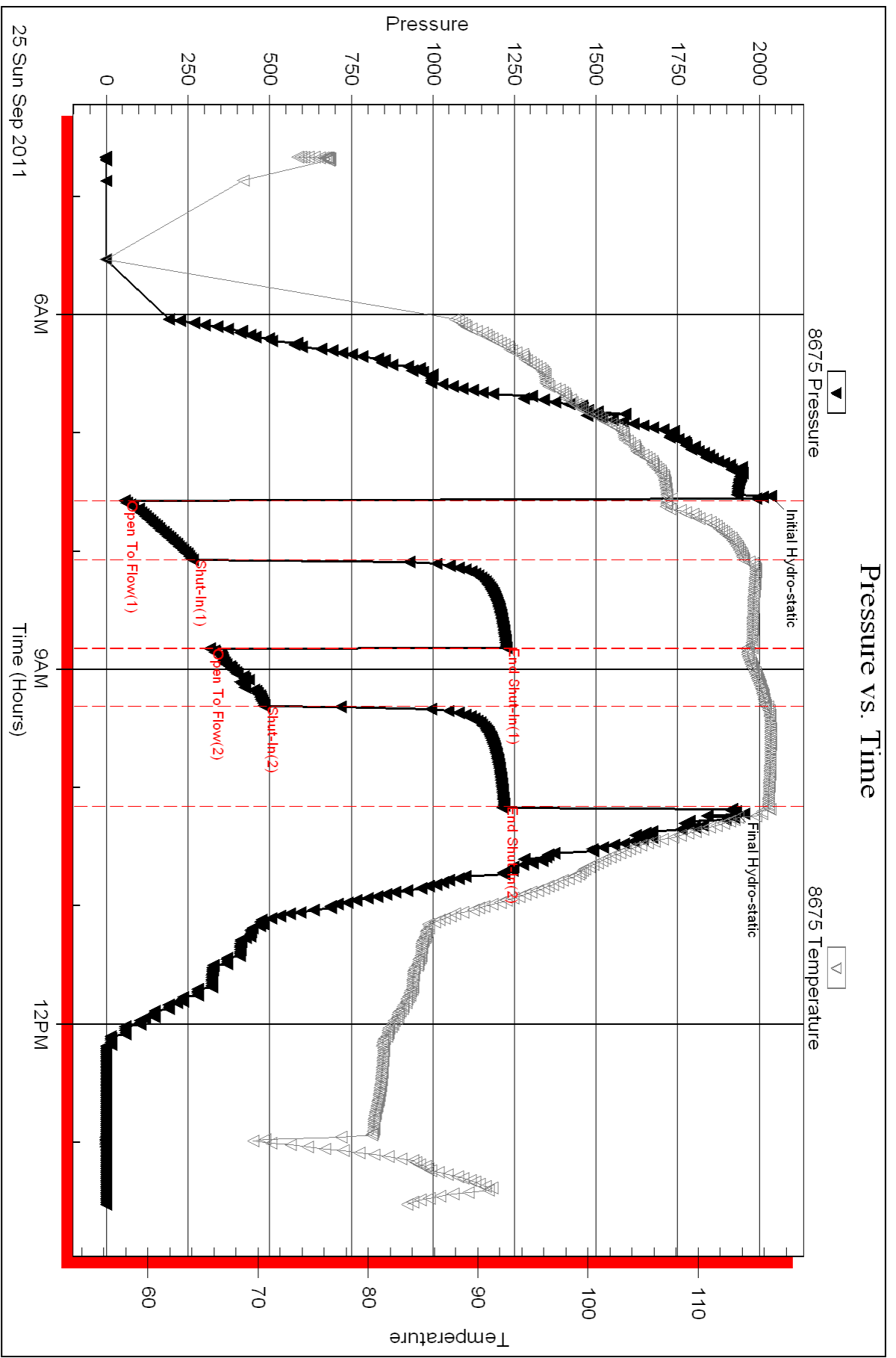
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 37 @ 90 F = 34 RW: .15 @ 80 F= 65,000







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

New Gulf Operating LLC

17-12-32

6310 E 102nd ST  
Tulsa OK, 74137

Zerr 1

Job Ticket: 042142

DST#: 2

ATTN: Curtis Covey

Test Start: 2011.09.26 @ 00:05:00

## GENERAL INFORMATION:

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:30:30

Time Test Ended: 06:52:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 28

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

Reference Elevations: 3004.00 ft (KB)

Total Depth: 4108.00 ft (KB) (TVD)

2994.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 19.62 psig @ 4131.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.26

End Date: 2011.09.26

Last Calib.: 2011.09.26

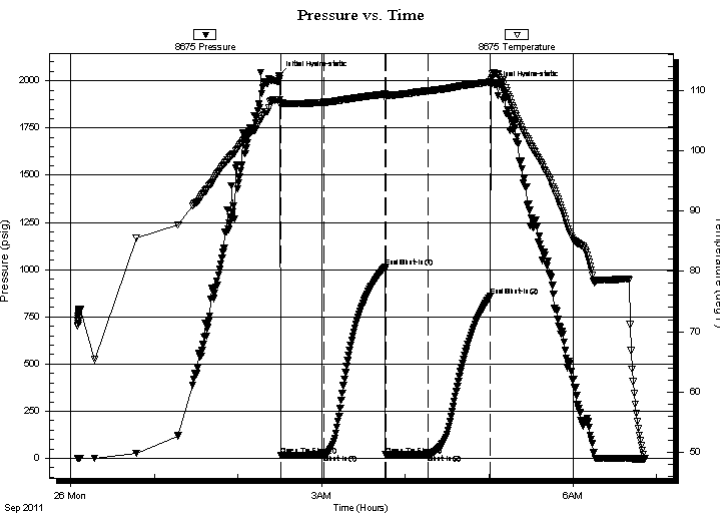
Start Time: 00:05:01

End Time: 06:52:00

Time On Btm: 2011.09.26 @ 02:29:30

Time Off Btm: 2011.09.26 @ 05:01:15

TEST COMMENT: Built to 1/4" blow  
No return blow  
No blow  
No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2028.58	108.42	Initial Hydro-static
1	16.29	107.43	Open To Flow (1)
32	18.86	108.00	Shut-In(1)
76	1012.44	109.36	End Shut-In(1)
77	18.59	108.72	Open To Flow (2)
107	19.62	109.91	Shut-In(2)
152	858.25	111.36	End Shut-In(2)
152	1974.78	111.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M w ith Oil scum	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**

New Gulf Operating LLC

**17-12-32**

6310 E 102nd ST  
Tulsa OK, 74137

**Zerr 1**

Job Ticket: 042142

**DST#: 2**

ATTN: Curtis Covey

Test Start: 2011.09.26 @ 00:05:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

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	100%M with Oil scum	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

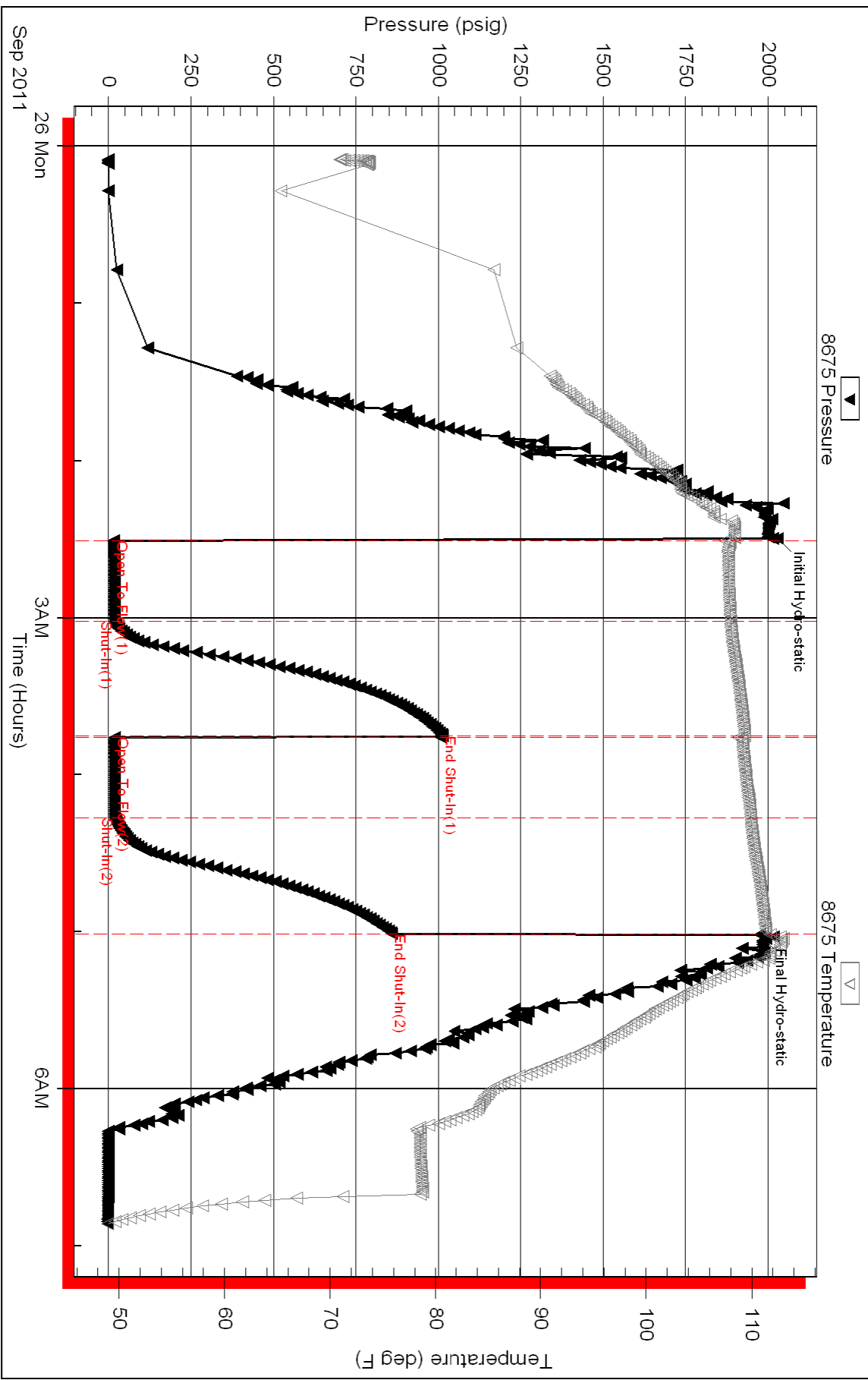
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

New Gulf Operating LLC

17-12-32

6310 E 102nd ST  
Tulsa OK, 74137

Zerr 1

Job Ticket: 042143

DST#: 3

ATTN: Curtis Covey

Test Start: 2011.09.26 @ 20:40:00

## GENERAL INFORMATION:

Formation: **Kansas City "H-I"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:37:45  
 Time Test Ended: 03:04:15  
 Interval: ft (KB) To ft (KB) (TVD)  
 Total Depth: 4108.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 28  
 Reference Elevations: 3004.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 10.00 ft

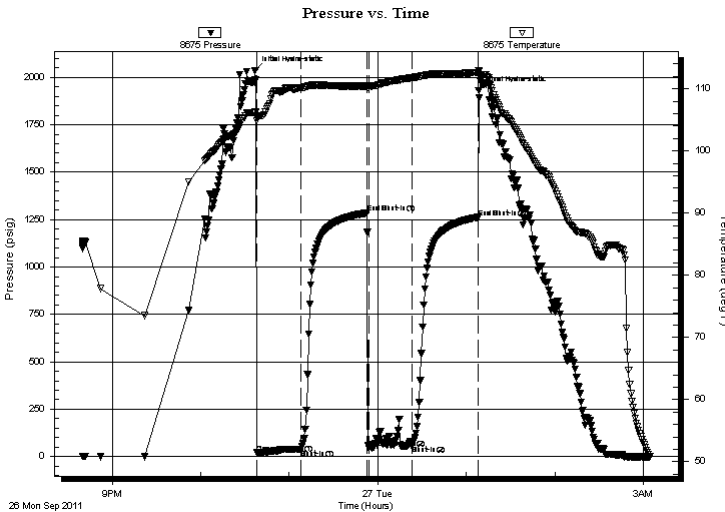
## Serial #: 8675

Inside

Press @ Run Depth: 60.96 psig @ 4141.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.09.26 End Date: 2011.09.27 Last Calib.: 2011.09.27  
 Start Time: 20:40:01 End Time: 03:04:15 Time On Btm: 2011.09.26 @ 22:36:45  
 Time Off Btm: 2011.09.27 @ 01:08:15

TEST COMMENT: Built to 3" blow  
 No return blow  
 Built to 1 1/5" blow  
 No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2037.17	106.30	Initial Hydro-static
1	19.04	104.86	Open To Flow (1)
31	39.59	110.23	Shut-In(1)
76	1285.35	110.43	End Shut-In(1)
78	43.39	110.35	Open To Flow (2)
107	60.96	111.78	Shut-In(2)
151	1262.34	112.64	End Shut-In(2)
152	1930.84	112.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Oil 100%	0.01
79.00	100% Mud w ith oil scum	1.11

\* Recovery from multiple tests

## Gas Rates

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



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TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

New Gulf Operating LLC

**17-12-32**

6310 E 102nd ST  
Tulsa OK, 74137

**Zerr 1**

Job Ticket: 042143

**DST#: 3**

ATTN: Curtis Covey

Test Start: 2011.09.26 @ 20:40:00

## 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 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1.00	Oil 100%	0.014
79.00	100% Mud w ith oil scum	1.108

Total Length: 80.00 ft      Total Volume: 1.122 bbl

Num Fluid Samples: 0

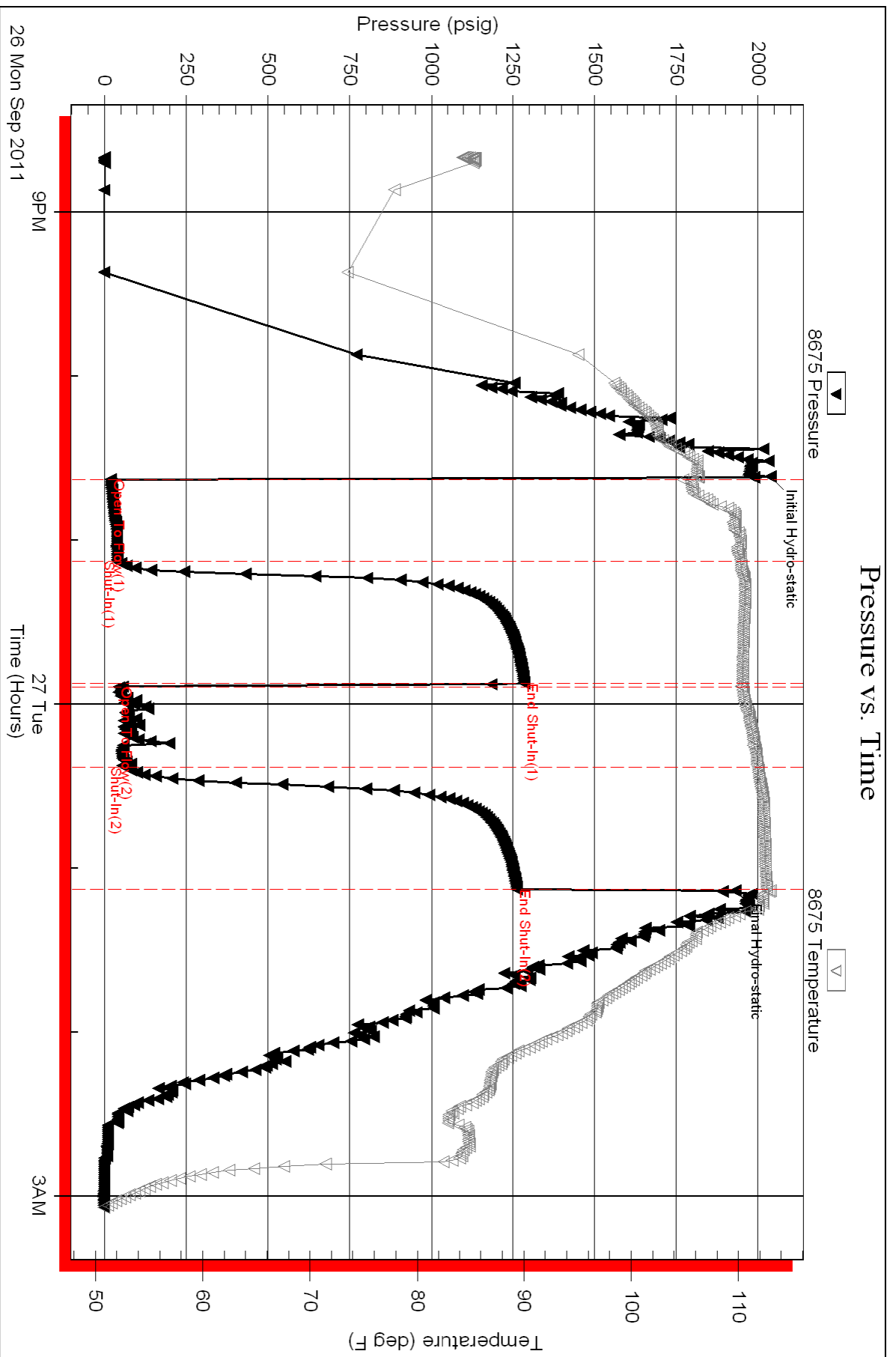
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

New Gulf Operating LLC

**17-12-32**

6310 E 102nd ST  
Tulsa OK, 74137

**Zerr 1**

Job Ticket: 042144

**DST#: 4**

ATTN: Curtis Covey

Test Start: 2011.09.27 @ 11:50:00

## GENERAL INFORMATION:

Formation: **Kansas City "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:42:00

Time Test Ended: 18:31:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 28

**Interval: 4180.00 ft (KB) To 4230.00 ft (KB) (TVD)**

Reference Elevations: 3004.00 ft (KB)

Total Depth: 4230.00 ft (KB) (TVD)

2994.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 8675**

**Inside**

Press @ Run Depth: 47.26 psig @ 4182.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.27

End Date:

2011.09.27

Last Calib.: 2011.09.27

Start Time: 11:50:01

End Time:

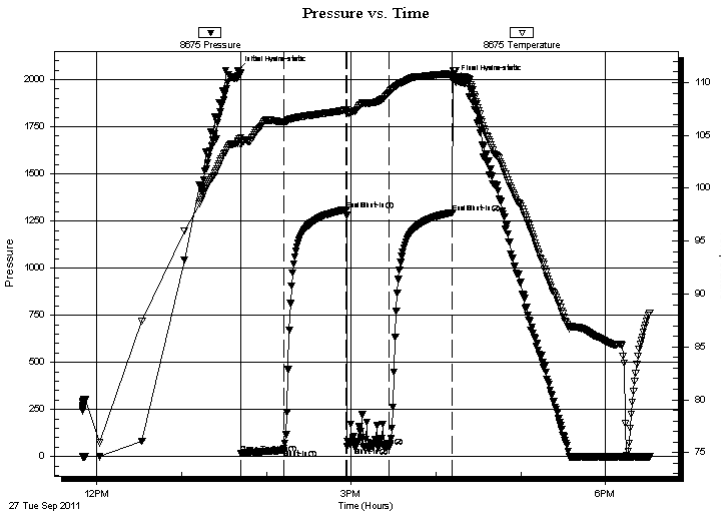
18:31:15

Time On Btm: 2011.09.27 @ 13:40:00

Time Off Btm: 2011.09.27 @ 16:12:45

**TEST COMMENT:** Built to 2 1/2" blow  
No return blow  
Built to 1" blow  
No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2048.65	104.35	Initial Hydro-static
2	18.51	104.07	Open To Flow (1)
32	36.59	106.27	Shut-In(1)
77	1310.60	107.40	End Shut-In(1)
78	56.08	107.03	Open To Flow (2)
107	47.26	109.05	Shut-In(2)
152	1295.03	110.73	End Shut-In(2)
153	1999.50	111.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
55.00	100% Mud with oil spots	0.77

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

New Gulf Operating LLC

**17-12-32**

6310 E 102nd ST  
Tulsa OK, 74137

**Zerr 1**

Job Ticket: 042144

**DST#: 4**

ATTN: Curtis Covey

Test Start: 2011.09.27 @ 11:50:00

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	100% Mud with oil spots	0.772

Total Length: 55.00 ft      Total Volume: 0.772 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

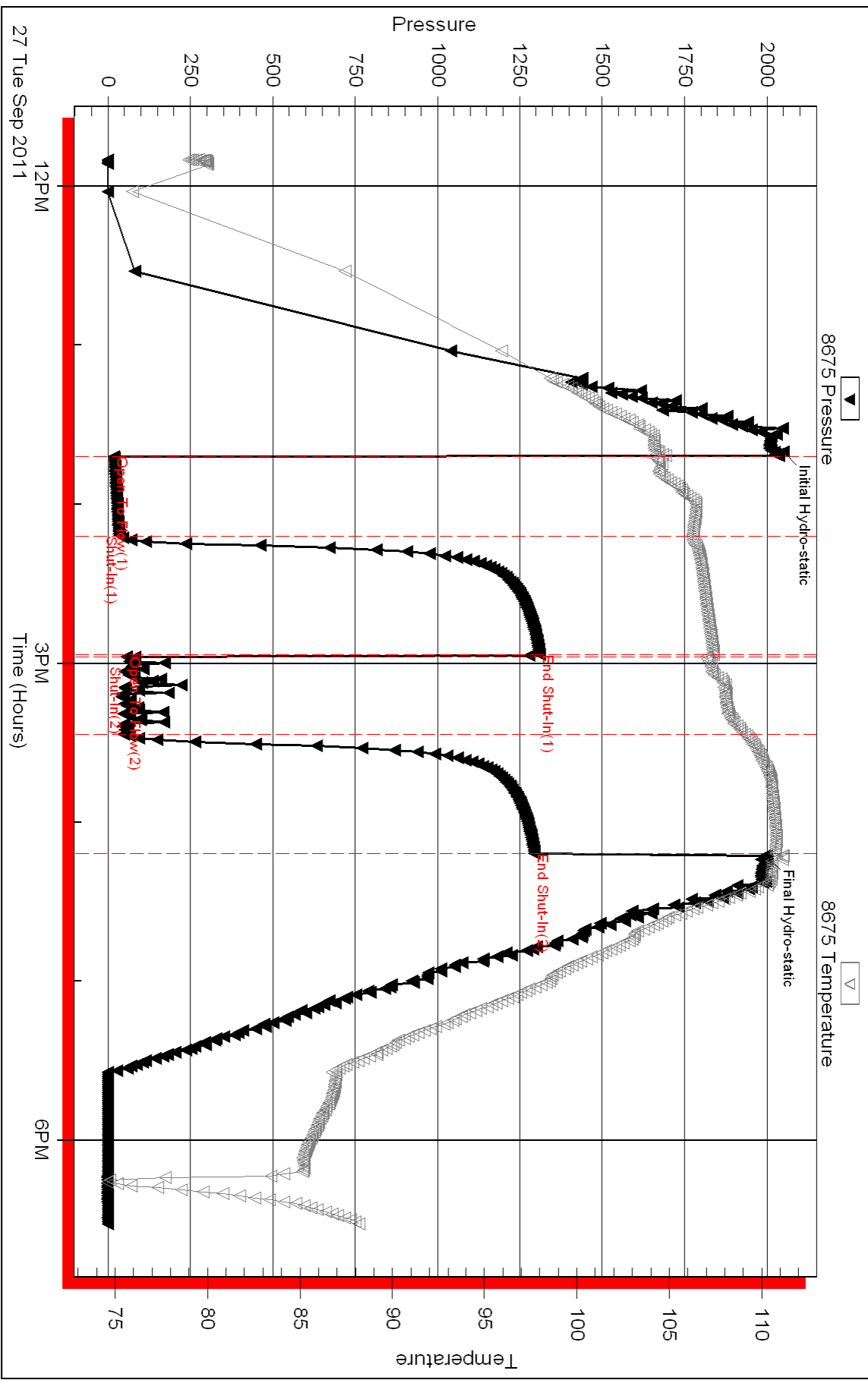
Laboratory Name:

Laboratory Location:

Recovery Comments:



# Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

New Gulf Operating LLC

**17-12-32**

6310 E 102nd ST  
Tulsa OK, 74137

**Zerr 1**

Job Ticket: 042145

**DST#: 5**

ATTN: Curtis Covey

Test Start: 2011.09.28 @ 05:55:00

## GENERAL INFORMATION:

Formation: **Kansas City "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:09:00

Time Test Ended: 12:29:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 28

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

Reference Elevations: 3004.00 ft (KB)

Total Depth: 4268.00 ft (KB) (TVD)

2994.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 8675**

**Inside**

Press @ Run Depth: 26.64 psig @ 4241.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.28

End Date: 2011.09.28

Last Calib.: 2011.09.28

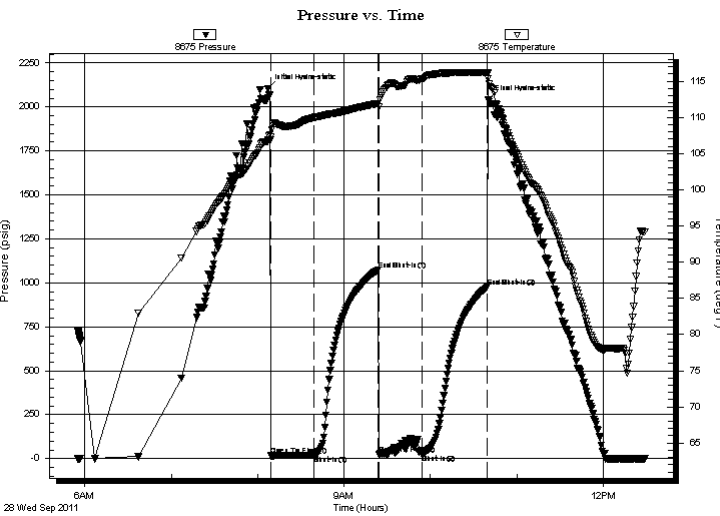
Start Time: 05:55:01

End Time: 12:29:00

Time On Btm: 2011.09.28 @ 08:07:15

Time Off Btm: 2011.09.28 @ 10:40:15

**TEST COMMENT:** Built to 1" blow  
No return blow  
No blow  
No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.15	106.96	Initial Hydro-static
2	16.67	106.93	Open To Flow (1)
32	20.57	109.97	Shut-In(1)
77	1075.59	111.92	End Shut-In(1)
77	23.76	111.42	Open To Flow (2)
107	26.64	115.40	Shut-In(2)
152	977.60	116.21	End Shut-In(2)
153	2042.66	115.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	100 % Mud w with oil spots	0.21

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

New Gulf Operating LLC

**17-12-32**

6310 E 102nd ST  
Tulsa OK, 74137

**Zerr 1**

Job Ticket: 042145

**DST#: 5**

ATTN: Curtis Covey

Test Start: 2011.09.28 @ 05:55:00

## 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:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	100 % Mud with oil spots	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

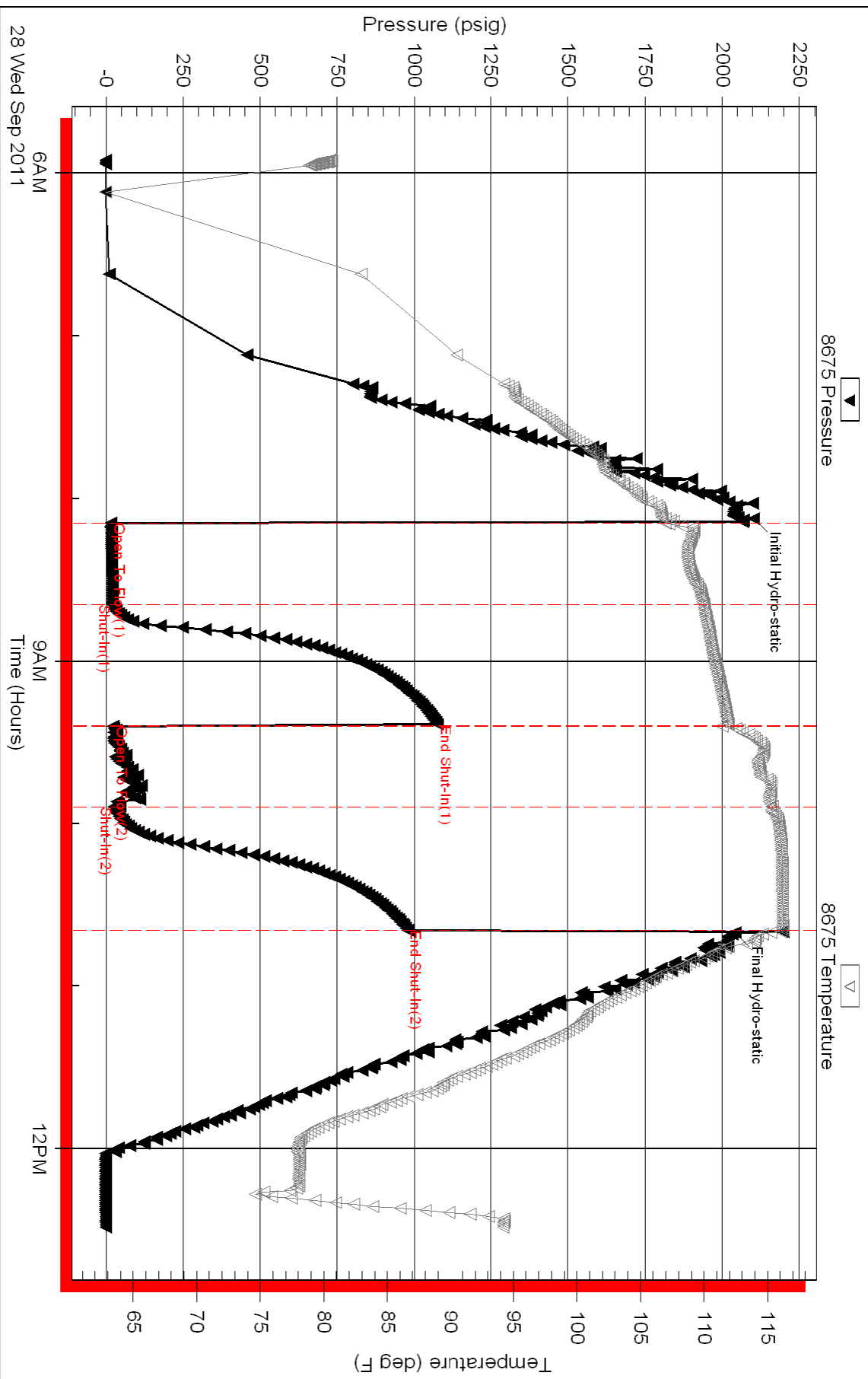
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **New Gulf Operating LLC**

6310 E 102nd ST  
Tulsa, OK 74137

ATTN: Curtis Covey

**Zerr #1**

**17-12-32 Logan,KS**

Start Date: 2011.09.30 @ 06:09:00

End Date: 2011.09.30 @ 15:14:15

Job Ticket #: 042146                      DST #: 6

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.10.06 @ 12:05:59

New Gulf Operating LLC  
17-12-32 Logan,KS  
Zerr #1  
DST # 6  
Johnson  
2011.09.30



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

New Gulf Operating LLC  
 6310 E 102nd ST  
 Tulsa, OK 74137  
 ATTN: Curtis Covey

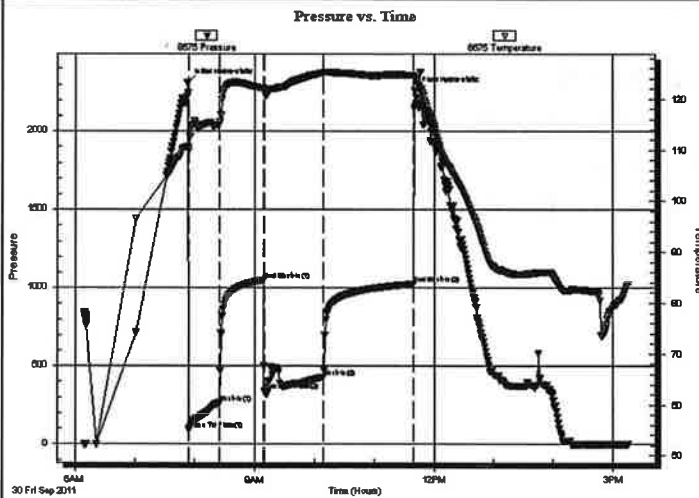
**17-12-32 Logan,KS**  
**Zerr #1**  
 Job Ticket: 042146 **DST#: 6**  
 Test Start: 2011.09.30 @ 06:09:00

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:54:00  
 Time Test Ended: 15:14:15  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 28  
 Interval: **4498.00 ft (KB) To 4580.00 ft (KB) (TVD)**  
 Total Depth: 4108.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Reference Elevations: 3004.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8675** **Inside**  
 Press@RunDepth: 426.19 psig @ 4499.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.09.30 End Date: 2011.09.30 Last Calib.: 2011.09.30  
 Start Time: 06:09:01 End Time: 15:14:15 Time On Btm: 2011.09.30 @ 07:52:30  
 Time Off Btm: 2011.09.30 @ 11:40:45

**TEST COMMENT:** B.O.B. in 2 1/2 min  
 Bled off for 2 min. B.O.B. in 7 min.  
 B.O.B. in 9 min.  
 Bled off for 5 min. Built to 3" return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2309.61	110.71	Initial Hydro-static
2	96.12	109.83	Open To Flow (1)
32	264.32	115.01	Shut-In(1)
77	1051.07	122.17	End Shut-In(1)
78	342.12	121.45	Open To Flow (2)
137	426.19	125.10	Shut-In(2)
227	1025.26	124.67	End Shut-In(2)
229	2258.39	124.09	Final Hydro-static

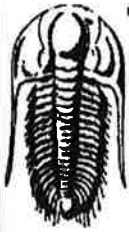
## Recovery

Length (ft)	Description	Volume (bbl)
186.00	Clean Oil 20%G 80%O	2.61
372.00	mcw go 10%M 10%W 20%G 60%O	5.22
372.00	gcw mo 10%G 20%M 30%W 40%O	5.22

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

New Gulf Operating LLC

**17-12-32 Logan,KS**

6310 E 102nd ST  
Tulsa, OK 74137

**Zerr #1**

Job Ticket: 042146

**DST#: 6**

ATTN: Curtis Covey

Test Start: 2011.09.30 @ 06:09:00

### Tool Information

Drill Pipe:	Length: 4476.73 ft	Diameter: 3.80 inches	Volume: 62.80 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.23 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4498.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	109.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4471.50	
Shut In Tool	5.00			4476.50	
Hydraulic tool	5.00			4481.50	
Jars	5.00			4486.50	
Safety Joint	2.50			4489.00	
Packer	5.00			4494.00	27.50 Bottom Of Top Packer
Packer	4.00			4498.00	
Stubb	1.00			4499.00	
Recorder	0.00	8675	Inside	4499.00	
Recorder	0.00	8371	Outside	4499.00	
Perforations	13.00			4512.00	
Change Over Sub	1.00			4513.00	
Drill Pipe	63.00			4576.00	
Change Over Sub	1.00			4577.00	
Bullnose	3.00			4580.00	82.00 Bottom Packers & Anchor

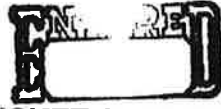
**Total Tool Length: 109.50**







**CONSOLIDATED**  
Oil Well Services, LLC



1 .ET NUMBER 28252  
LOCATION Oakley  
FOREMAN Fuzzy

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
10-1-11	5661	Zerr #1	17	12	32	Logan
CUSTOMER New Golf Operating LLC			OAKLEY			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			55	463		Josh G
STATE			3W	439		Cory D
ZIP CODE			3S	528		Cecil P
			G+W			
			50			
			50			

JOB TYPE 2-stage HOLE SIZE 7 7/8 HOLE DEPTH 4700' CASING SIZE & WEIGHT 5 1/2 15.5  
CASING DEPTH 4675' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ \*52 OTHER DU-2558'  
SLURRY WEIGHT 13.8-12.5 SLURRY VOL 1.42-1.9 WATER gal/sk 6.7-10.8 CEMENT LEFT in CASING shoe 20 20  
DISPLACEMENT 49.9-60.8 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on VAL #4 float equipment Cent -  
1-3-6-10-14-18-22-24 - 50-52 - Basket Top of 50 - DU - Top  
of #51. Rig up + circulate 1 hr. Pump 5 BBL water, 500 gal  
Mud flush, 5 BBL water. Mix 175 sks OWC 5\* Kolseal/sk wash  
pump + lines. Drop plug and displace 49.9 BBL water - 60.8 mud  
high press 900\* land plus @ 1500\* float hld. Drop DU Bomb unit 10  
min open tool @ . Circ 4 hrs. Mix 20 sks MCL, 30 sks RH. Pump  
5 BBL water mix 400 sks h. to 1/4" closeal. wash pump + lines Drop plug  
and displace 61 1/2 BBL water high press 900\* close DU tool @ 1800\*  
cement did circulate approx 20 BBL to pit. Thanks Fuzzy & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	2850 <sup>00</sup>	2850 <sup>00</sup>
5406	7	MILEAGE	5 <sup>00</sup>	35 <sup>00</sup>
5407	27.57	Ton Mileage Delivery (min)	15 <sup>00</sup>	410 <sup>00</sup>
1126	175 sks	OWC	21 <sup>48</sup>	3759 <sup>00</sup>
1110A	875 #	Kolseal	153	463 <sup>75</sup>
1118B	3256 #	Bentonite	24	781 <sup>44</sup>
1144G	500 gal	Mud Flush	1 <sup>00</sup>	500 <sup>00</sup>
1131	450 sks	60/40 pos	14 <sup>35</sup>	6457 <sup>50</sup>
1107	113 #	Closeal	2 <sup>66</sup>	300 <sup>98</sup>
4159	1	5 1/2 - Float shoe ATFU	413 <sup>00</sup>	413 <sup>00</sup>
4130	10	5 1/2 - Centralizers	58 <sup>00</sup>	580 <sup>00</sup>
4104	1	5 1/2 - Basket	276 <sup>00</sup>	276 <sup>00</sup>
4283	1	5 1/2 - DU Tool w/lat hdown	3850 <sup>00</sup>	3850 <sup>00</sup>
				206762 <sup>71</sup>
		less 10% discount		206762 <sup>71</sup>
				186086 <sup>41</sup>
		244797		
		SALES TAX		1220 <sup>17</sup>
		ESTIMATED TOTAL		19828 <sup>81</sup>

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.

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 20, 2012

Danny Birdwell  
New Gulf Operating LLC  
6310 E. 102nd St.  
TULSA, OK 74137

Re: ACO-1  
API 15-109-21036-00-00  
Zerr 1  
SE/4 Sec.17-12S-32W  
Logan County, Kansas

Dear Danny Birdwell:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 09/19/2011 and the ACO-1 was received on February 17, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department