



**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
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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

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: \_\_\_\_\_



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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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	New Gulf Operating LLC
Well Name	Z-Man 1
Doc ID	1060756

Tops

Name	Top	Datum
Heebner Brown Lime	-1336	3026
Stark	-1518	3208
Swope Porosity	-1811	3501
Hushpuckney	-1820	3510
Lower Hertha Poro	-1853	3543
BKC	-1891	3581
Marmaton	-1922	3604
Cherokee	-1998	3612
		3688

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

August 03, 2011

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

Re: ACO1  
API 15-155-21573-00-00  
Z-Man 1  
SE/4 Sec.18-23S-08W  
Reno 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,

# ALLIED CEMENTING CO., LLC. 040742

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

*Med. Leaks*

DATE <u>7-8-11</u>	SEC. <u>18</u>	TWP. <u>23s</u>	RANGE <u>8W</u>	CALLED OUT	ON LOCATION	JOB START COUNTY <u>Sevier</u>	JOB FINISH STATE <u>KS</u>
LEASE <u>Z-man</u>	WELL #	LOCATION <u>Arlington 18 N to Highway 50</u>					
OLD OR <del>NEW</del>	(Circle one)	LOCATION <u>W to Sterling Rd. 4N, 1/2 E. N. 10th</u>					

CONTRACTOR Unit 13 #2 OWNER New Gulf

TYPE OF JOB Surface

### CEMENT

AMOUNT ORDERED 225x 60' 40% 2% gel + 3% cc  
75x 14' 40% 2% gel + 4% cc

HOLE SIZE <u>12 1/4"</u>	T.D. <u>224'</u>
CASING SIZE <u>8 5/8"</u>	DEPTH <u>225'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>300 psi</u>	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>20'</u>	
PERFS.	
DISPLACEMENT <u>13 bbls</u>	

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Art Thinesch</u>
# <u>369/265</u>	HELPER <u>Jas. Thinesch</u>
BULK TRUCK	
# <u>368/290</u>	DRIVER <u>Ebbe Pae</u>
BULK TRUCK	
#	DRIVER

### REMARKS:

Back wire with R13  
pump 3 bbls H2O  
225 5X 60' 40% 2% gel + 3% cc  
Shut down Release plug  
drop 13 bbls H2O Shut in  
Cement did not circulate  
Run 1 1/2 60' MIX 75x 14' 40% gel + 4% cc  
Cement did circulate

CHARGE TO: New Gulf  
STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Robert Hoberg, Jr.  
SIGNATURE [Signature]

### SERVICE

DEPTH OF JOB <u>224'</u>	
PUMP TRUCK CHARGE	<u>1125.00</u>
EXTRA FOOTAGE	
MILEAGE <u>90</u>	@ <u>7.00</u>
MANIFOLD <u>Headvental</u>	@ <u>200.00</u>
<u>Light vehicle</u>	@ <u>320.00</u>
	@
TOTAL	<u>2205.00</u>

<u>8 5/8 PLUG &amp; FLOAT EQUIPMENT</u>	
<u>1-wooden plug</u>	@ <u>92.00</u>
	@
	@
	@
	@
TOTAL	<u>92.00</u>

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 9294.45  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

7435.56



PO BOX 31 Russell, KS 67665

# INVOICE

Invoice Number: 127913

Invoice Date: Jul 16, 2011

Page: 1

Voice: (785) 483-3887

Fax: (785) 483-5566

**Bill To:**

New Gulf Operating, LLC  
6100 S. Yale, Suite 2010  
Tulsa, OK 74136

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
NewG	Z-man #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Great Bend	Jul 16, 2011	8/15/11

Quantity	Item	Description	Unit Price	Amount
120.00	MAT	Class A Common	16.25	1,950.00
80.00	MAT	Pozmix	8.50	680.00
7.00	MAT	Gel	21.25	148.75
207.00	SER	Handling	2.25	465.75
51.00	SER	Mileage	22.77	1,161.27
1.00	SER	Rotary Plug	1,250.00	1,250.00
102.00	SER	Heavy Vehicle Mileage	7.00	714.00
102.00	SER	Light Vehicle Mileage	4.00	408.00
1.00	OPER ASSIST	Bobby Roller		
1.00	OPER ASSIST	Trint Hall		
1.00	OPER ASSIST	Kevin Weighous		

COMPANY \_\_\_\_\_  
 WELL # Z-Man 1  
 AFE # \_\_\_\_\_  
 G/L ACCT CODE 1510-22  
 G/L DESCRIPT Plugging Cost  
 DATA ENTRY/DATE \_\_\_\_\_  
 AUTHORIZED/DATE 8-3-11 WJK

*Ok per Robert 8-2-11*

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

**\$ 1355.56**

ONLY IF PAID ON OR BEFORE

**Aug 10, 2011**

Subtotal	6,777.77
Sales Tax	494.78
Total Invoice Amount	7,272.55
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,272.55</b>

-1355.56



# ALLIED CEMENTING CO., LLC. 037325

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Cascat Boulders  
7-16-11

DATE <u>7-16-11</u>	SEC. <u>18</u>	TWP. <u>23</u>	RANGE <u>8W</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30pm</u>	JOB FINISH <u>5:30am</u>
LEASE <u>Z-man</u>	WELL# <u>1</u>	LOCATION <u>50 Hwy + Sterling Road 4 n</u>		COUNTY <u>Reno</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)	1/2 East N into						

CONTRACTOR Val Energy #2 OWNER New Gulf operations

TYPE OF JOB Rotary Plug  
HOLE SIZE 7 7/8 T.D. 4136  
CASING SIZE 8 5/8 DEPTH  
TUBING SIZE DEPTH  
DRILL PIPE 4 1/2 DEPTH 4136  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG. all

DISPLACEMENT Fresh water / Rig mud  
EQUIPMENT

PUMP TRUCK CEMENTER Bobby Roth  
# 222 HELPER Grant H.  
BULK TRUCK  
# 34 DRIVER Kevin W.  
BULK TRUCK  
# DRIVER

REMARKS:  
1st plug at 4136ft mid 3550  
2nd plug at 1300ft mid 3650  
3rd plug at 800ft mid 3650  
4th plug at 272ft mid 3650  
5th plug at 60ft mid 2050  
Rh mid 2050  
mh mid 1550

CHARGE TO: New Gulf operations  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rick Smith  
SIGNATURE Rick Smith  
Thank you

CEMENT

AMOUNT ORDERED 200 50 60/40 49age 1

COMMON	<u>120</u>	@	<u>16.25</u>	<u>1950.00</u>
POZMIX	<u>80</u>	@	<u>8.50</u>	<u>680.00</u>
GEL	<u>7</u>	@	<u>21.25</u>	<u>152.25</u>
CHLORIDE		@		
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>207</u>	@	<u>2.25</u>	<u>465.75</u>
MILEAGE	<u>207 x 514.11</u>	@		<u>1.161.33</u>
TOTAL				<u>4.409.33</u>

SERVICE

DEPTH OF JOB	<u>4136</u>			
PUMP TRUCK CHARGE				<u>1250.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>7.464 102</u>	@	<u>7.00</u>	<u>714.00</u>
MANIFOLD		@		
	<u>highway 102</u>	@	<u>4.00</u>	<u>408.00</u>
TOTAL				<u>2372.00</u>

PLUG & FLOAT EQUIPMENT

	@			
	@			
	@			
	@			
	@			
TOTAL				

SALES TAX (if Any) \_\_\_\_\_  
TOTAL CHARGES 6,781.27  
DISCOUNT 30% 2081.356.25  
5,425.01  
IF PAID IN 30 DAYS



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

NEW GULF OPERATING LLC

**Z-MAN #1**

6310 E 102 ND ST  
TULSA OK 74137

**18-23S-8W RENO KS**

ATTN: JOE BAKER

Job Ticket: 42530

**DST#: 1**

Test Start: 2011.07.12 @ 10:06:47

## GENERAL INFORMATION:

Formation: **GONGLOMERATE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:48:32

Time Test Ended: 16:07:17

Test Type: Conventional Bottom Hole

Tester: RANDY WILLIAMS

Unit No: 34

**Interval: 3680.00 ft (KB) To 3725.00 ft (KB) (TVD)**

Reference Elevations: 1691.00 ft (KB)

Total Depth: 372.00 ft (KB) (TVD)

1681.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6773**

**Inside**

Press @ RunDepth: 52.70 psig @ 3681.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.12

End Date:

2011.07.12

Last Calib.:

2011.07.13

Start Time: 10:06:52

End Time:

16:07:16

Time On Btm:

2011.07.12 @ 11:48:17

Time Off Btm:

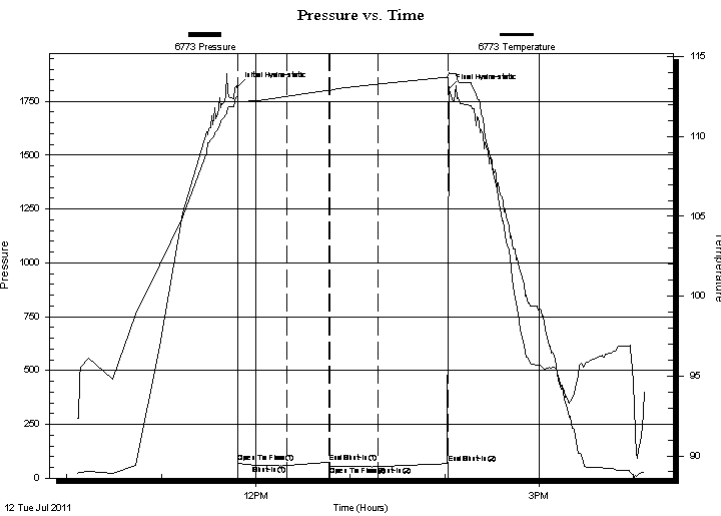
2011.07.12 @ 14:03:02

**TEST COMMENT:** IF-WBB, BUILT TO 2 INCH'S IN 30 MIN'S

ISI-NBB

FF-WEAK SURFACE BLOW

FSI-NBB



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.24	112.50	Initial Hydro-static
1	71.58	112.10	Open To Flow (1)
32	58.68	112.52	Shut-In(1)
59	73.72	112.90	End Shut-In(1)
59	53.56	112.91	Open To Flow (2)
90	52.70	113.28	Shut-In(2)
134	67.66	113.72	End Shut-In(2)
135	1811.01	113.92	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.07

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

NEW GULF OPERATING LLC

**Z-MAN #1**

6310 E 102 ND ST  
TULSA OK 74137

**18-23S-8W RENO KS**

Job Ticket: 42530

**DST#: 1**

ATTN: JOE BAKER

Test Start: 2011.07.12 @ 10:06:47

## 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:

5500 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

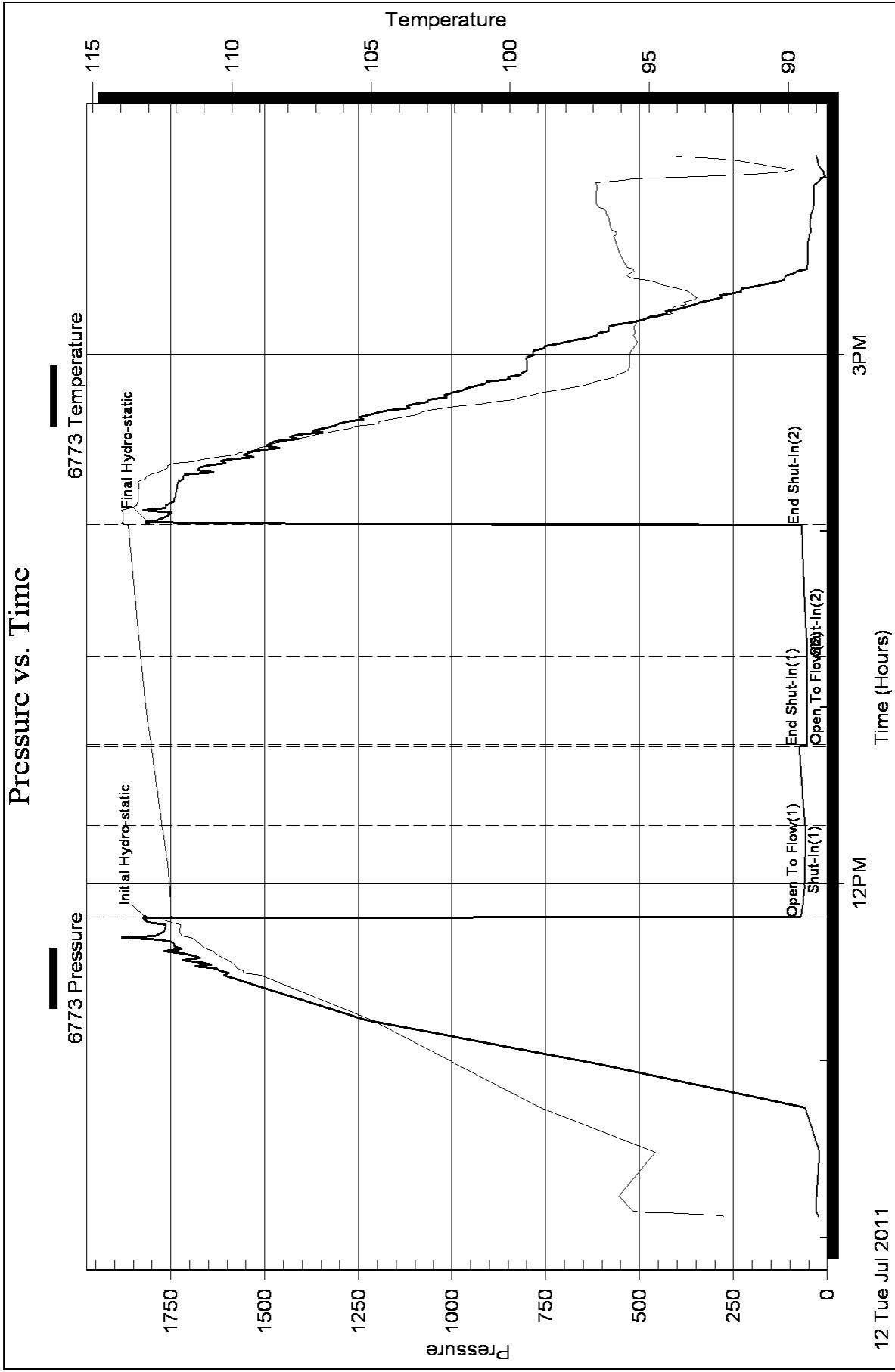
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

NEW GULF OPERATING LLC

**Z-MAN #1**

6310 E 102 ND ST  
TULSA OK 74137

**18-23S-8W RENO KS**

ATTN: JOE BAKER

Job Ticket: 42531

**DST#: 2**

Test Start: 2011.07.12 @ 23:54:25

## GENERAL INFORMATION:

Formation: **MISSISSIPPI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:21:55

Time Test Ended: 06:55:10

Test Type: Conventional Bottom Hole

Tester: RANDY WILLIAMS

Unit No: 34

**Interval: 3682.00 ft (KB) To 3760.00 ft (KB) (TVD)**

Reference Elevations: 1691.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

1681.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6773**

**Inside**

Press @ Run Depth: 75.04 psig @ 3683.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.12

End Date:

2011.07.13

Last Calib.:

2011.07.13

Start Time: 23:54:30

End Time:

06:55:09

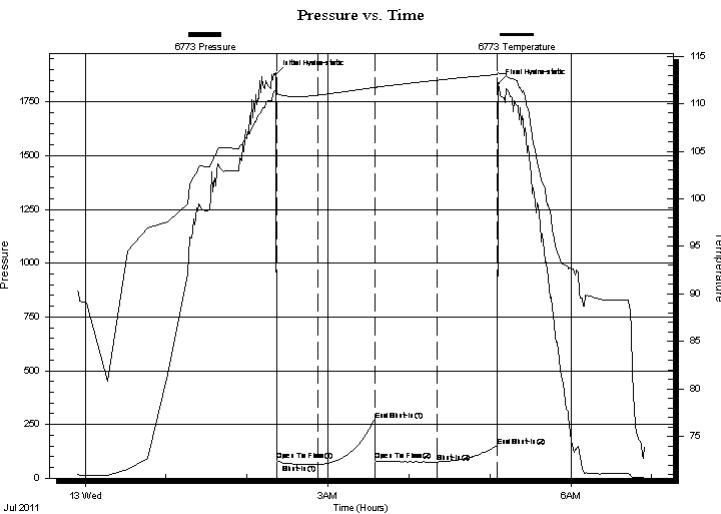
Time On Btm:

2011.07.13 @ 02:21:25

Time Off Btm:

2011.07.13 @ 05:06:25

**TEST COMMENT:** IF-WBB, BUILT 2 INCH'S IN 30 MIN'S  
ISI-NBB  
FF-WBB, BUILT TO 1 INCH IN 45 MIN'S  
FSI-NBB



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.00	111.44	Initial Hydro-static
1	84.69	111.10	Open To Flow (1)
31	63.61	110.89	Shut-In(1)
74	270.42	111.71	End Shut-In(1)
74	83.89	111.66	Open To Flow (2)
120	75.04	112.46	Shut-In(2)
164	149.01	113.06	End Shut-In(2)
165	1834.86	113.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	MUD WITH TRACE OF OIL	0.35

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

NEW GULF OPERATING LLC

**Z-MAN #1**

6310 E 102 ND ST  
TULSA OK 74137

**18-23S-8W RENO KS**

Job Ticket: 42531

**DST#: 2**

ATTN: JOE BAKER

Test Start: 2011.07.12 @ 23:54:25

## 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:

5500 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	MUD WITH TRACE OF OIL	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

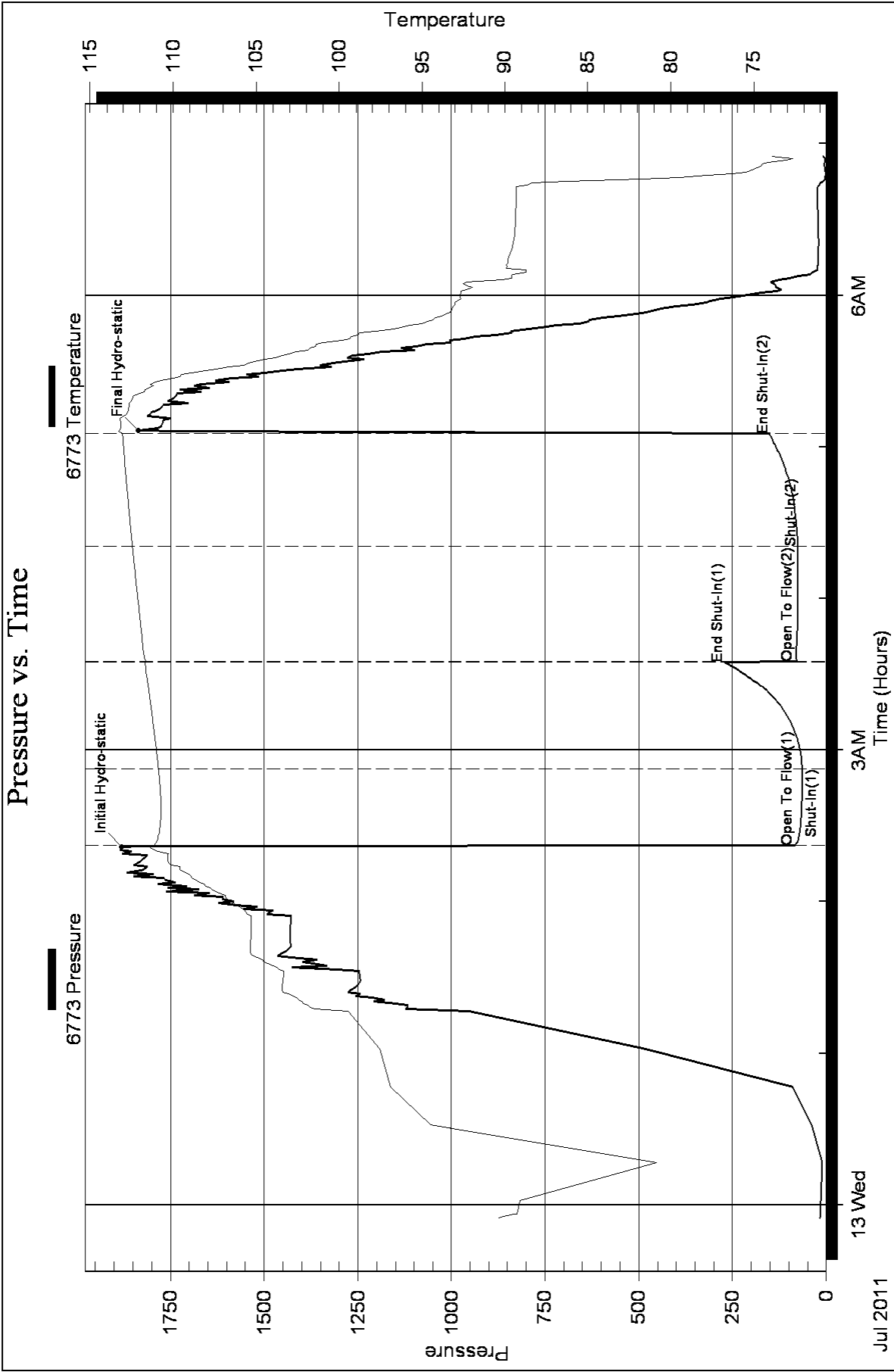
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





# DRILLING REPORT

## NEW GULF ENERGY

6310 E. 102<sup>nd</sup> Street  
Tulsa, Oklahoma 74137  
Office (918) 728-3020

### #1 Z-MAN

2310' FEL 2310' FSL  
Section 18-T23S-8W  
Reno Co, Kansas  
API # 15-155-21573

Drilling Contractor: VAL DRILLING RIG 2 (620-617-2793)  
Elevation: GL1680 **KB 1690**  
Geologist: Joe Baker 316-253-9696

New Gulf Rep : Robert Rodriguez 979-676-3367

### E-LOG TOPS

HEEBNER	3026(-1336)	
BROWN LM	3208 (-1518)	
STARK	3501 (-1811)	
SWOPE POROSITY	3510 (-1820)	Good Drilling Break, Gd Porosity No Shows
HUSHPUCKNEY	3543 (-1853)	
LOWER HERTHA POROSITY	3581 (-1891)	Ls tan very finexln, subfossil, poor porosity, trace show free oil ,few gas bubbs, faint fleeting odor, no fluorescence, <b>4-5 unit gas kick on hotwire</b> did not merit DST
BKC	3604 (-1914)	
MARMATON	3612 (-1922)	
CHEROKEE	3688 (-1998)	
CONGLOMERATE	3723 (-2026)	Chert Varicolored Yell Red Orange/White mostly Fresh Slight weathering @edges in few pieces w/ dk spotty stain, show free oil, gas bubbs, Fleeting Odor? No Fluorescence. Sst red/fine grain argill./friable, abundant varicolored shales mostly red <b>30 unit gas kick Hot Wire</b> (Weathered Porosity Shows are out of the top of the Miss)
MISS CHERT	3706 (-2016)	Chert (Osage)white, some varicolored reds ,Orange,, mostly dns fresh, some oolmoldic Fossil, scat weathered porosity in few pieces, very slight shows of free oil& gas bubbs No odor, no fluorescence <b>20 units gas kick Hot Wire</b>
KINDERHOOK	3790 (-2100)	
VIOLA	4026 (-2336)	
SIMPSON SH	4034 (-2344)	
SIMPSON SAND	4053 (-2363)	
ARBUCKLE	4120 (-2430)	

7/7/11 Move In Spud Set 85/8 w/225 sx(did not circ) 1' inched w/75 sxs  
7/8/11 WOC  
7/9/11 1529'  
7/10/11 2630'  
7/11/11 3313'  
7/12/11 3714' Dst # 1 Conglomerate/Miss  
7/13/11 3760' Dst # 2 Miss  
7/14/11 4250'

**COMMENTS:**

The Cherokee –Miss. Interval was thin. Consequently we did not have any Conglomerate Reservoir.

DST #1 tested the Conglomerate Zone and the Upper Porosity of the Mississippian Chert

DST #2 tested the top 39' of the Mississippian Chert

The well has a thick Mississippian Chert section with 6' of Upper Porosity.

However the sample shows and Drill Stem Test results do not indicate a commercial reservoir in my opinion..

**DST # 1 CONGLOMERATE/MISS**

3680-3725

30-30-30-45

1st Open: Weak 1/8" Blow Slightly Building To 2"

1st Shut in: No Blow

2nd Open: weak Surface Blow

2nd Shut In:No Blow

Recovery: 5' Mud

IFP/FFP:72-59/54-53#

ISP/FSP:73/68#

IHP/FHP:1817/1811

**DST # 2 MISSISSIPPIAN CHERT**

3678-3760

30-45-45-45

1st Open: Weak Blow Slightly Building To 2"

1st Shut in: No Blow

2nd Open: Weak Blow Building To 1 "

2nd Shut In:No Blow

Recovery: 25' Mud w/ trace of Free Oil (1% Oil,99% Mud)

IFP/FFP:85-64/84-75#

ISP/FSP:270/149#

IHP/FHP:1879/1835#

Temp:113 deg