



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1247288  
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: \_\_\_\_\_



1247288

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)* \_\_\_\_\_

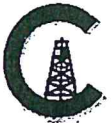
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Marius 1-15
Doc ID	1247288

Tops

Name	Top	Datum
Anhy	2422	+607
Base Anhy	2440	+589
Heebner	3824	-795
Muncie	4084	-1055
Stark	4168	-1139
BKC	4260	-1231
Pawnee	4382	-1353
Mississ	4626	-1597



**CONSOLIDATED**  
Oil Well Services, LLC

270740

TICKET NUMBER 46652

LOCATION Oakley, KS

FOREMAN Miles Shaw

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	
8-28-14	5661	Marius #1-15	15	14S	34W	L4964	
CUSTOMER		Moundest KS St. Andrew 3W #11 Wink		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		New Gulf Operating		45678	Jordan		
CITY		STATE	ZIP CODE	460	Code R		

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 268' CASING SIZE & WEIGHT 2 5/8" 23#  
 CASING DEPTH 268' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 156bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting and rig upon Val drilling Rig #4 Circulate Casing  
mix 200 SKS Class A Cement with 3% Calcium Chloride displace  
156bbls water Shut in Cement did Circulate

46bbls Sept

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150. <sup>00</sup>	1150. <sup>00</sup> ✓
5406	25	MILEAGE	5.25	131.25 ✓
5407A	9.4 Tons	Ton Mitrage delivery	1.75	411.25 ✓
1102	564 #	Calcium Chloride	.94	530.16 ✓
1104S	200 SKS	Class A Cement	18.55	3710. <sup>00</sup> ✓
1118B	376 #	Bentonite gel	1.27	701.52 ✓
			Subtotal	6034.18
			less 1080 discount	603.42 ✓
			Subtotal	5430.76
			SALES TAX	298.94 ✓
			ESTIMATED TOTAL	5729.70 ✓

Revin 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.



Date: 8/28/2014 Operator: New Gulf Operating Well Name: Martus # 1  
 Field or Prospect: South Logan County: Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 268.00 Footage: 268.00 Rot. Hrs.: 3.0 Avg. ROP: 89.33 Phone No.: 620.617.2868  
 Present Operation: WOC

Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: N/A KB to GL:  
 Spud Date: 8/28/2014 Days from Spud: 1 Consultant: Jim Henkle

Breakdown of Operations				Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	3.0
From	To	Hrs	Spud						
1930	0915	0.75	0-100'						
2030	0945	0.5	Plug bit						
2115	1200	2.25	Drig 100-268'						
2145	1230	0.5	CTCH, Drop Survey						
2400	1300	0.5	TOH w/ bit						
2430	1415	1.25	Run 8 5/8						
0100	1445	0.5	Cement						
2454	0630	3.75	WOC						
0630									

Run 6 New Jts. 24# J-55 8 5/8 Tally 252.37 Set @ 264'  
 Cement w/ 200 sx. Comm 3% CC & 2% Gel  
 Cement DID Circ.  
 Consolidated Cementing Ticket # 46652

Driving Directions:

Total hrs	10.0	Diesel Used:	0	Diesel on Hand:	
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Qty	OD	ID	Description	Length	code	Before Casing Point	Drilling Cost	Before Casing Point (Y/N)	Y
			Bottomhole Assembly						
					1510-2	Roads & Location	\$ 4,500.00	\$	4,500.00
					1510-4	Rig Mobilization	\$ 8,000.00	\$	8,000.00
					1510-5	Contractor: Day Work	\$ 2,800.00	\$	2,800.00
					1510-6	Contractor: Footage	\$ 4,288.00	\$	4,288.00
					1510-8	Water	\$ 2,800.00	\$	2,800.00
					1510-8	Fuel	\$ -	\$	-
					1510-9	Mud / Diesel / Mineral Oil	\$ -	\$	-
					1510-10	Bits	\$ 250.00	\$	250.00
					1510-12	Equipment Rentals	\$ -	\$	-
					1510-13	Logging	\$ 4,526.00	\$	4,526.00
					1510-14	Cmt Serv./Cents, Float Equip.	\$ -	\$	-
					1510-16	Transportation	\$ 400.00	\$	400.00
					1510-18	Supervision	\$ -	\$	-
					1510-27	Casing Crew / Fillup Tool / LDM	\$ -	\$	-
					1510-28	Misc. Services / Rentals	\$ 2,633.32	\$	2,633.32
					1510-37	Drill Stem Test	\$ -	\$	-
					1510-43	Mud Logging	\$ 4,355.00	\$	4,355.00
					1560-1	Surface Casing	\$ -	\$	-
					1550-8	Well Head & Slips	\$ -	\$	-
					1510-22	P&A	\$ -	\$	-
						Total Length	0.00		

Effective Bit Weight:		Total Costs	\$ 34,552.32	DC Connection	\$ 34,552.32	Buoyancy Wt.	
DP Size	DP Weight	DP Grade	DP Connection	DC Size	DC Weight	DC Grade	DC Connection

MW	Vis	PV	YP	Gels	10 sec	10 min	cc.	HHP	32nd	Cake	% Solids	% Sand	pH	ES	AIK	Pm	Ca	Cl	% OIL	OWR	

Shaker Screen Size: \_\_\_\_\_ Date Last BOP Drill: \_\_\_\_\_  
 Bit Record \_\_\_\_\_ Date Last BOP Test: \_\_\_\_\_

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB (1000 lbs)	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Dull	Reas. Pulled	
1	12.25	UZ	Rock		15	15	0	268.00	3	89.333	ALL	90									

Pump No.	Model	Stroke Length	Liner Size	Gal. / Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.88	56	312.53	450	51.03	51.03		
No. 2				0.00		0.00					

Depth:	268	Deviation:	0.25	Depth:		Deviation:	
Depth:		Deviation:		Depth:		Deviation:	
Depth:		Deviation:		Depth:		Deviation:	

BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:	
BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:	



**DAILY DRILLING REPORT**

Date: 8/29/2014	Operator: South Logan	New Gulf Operating	Well Name: Marius # 1
Field or Prospect: 1775.00	Footage: 1607.00	Rot. Hrs.: 17.5	Avg. ROP: 86.11
Contractor & Rig No.: Vail Rig # 4	Phone No.: 620.617.2668		
Present Operation:	Drilling Ahead @ 1815'		
Last Casing (Size & Depth):	8 5/8 Set @ 264'	Shoe Test:	N/A
Spud Date: 8/28/2014	Days from Spud: 2	Consultant: Jim Henkle	KB to GL: 0

Breakdown of Operations			
From	To	Hrs	Repair Hrs. for day:
0630	1045	4.25	0
1045	1100	0.25	0
1100	1115	0.25	0
1115	1515	4	0
1515	1530	0.25	0
1530	1600	0.5	0
1600	1615	0.25	0
1615	1945	3.5	0
1945	2000	0.25	0
2000	2015	0.25	0
2015	2045	0.5	0
2045	2430	3.75	0
2430	2445	0.25	0
2445	0115	0.5	0
0115	0130	0.25	0
0130	0630	5	0
0630			

Total hrs: 24.0 Diesel Used: 0 Diesel on Hand: 0

Qty	OD	ID	Description	Length	code	Before Casing Point	Before Csg. Point (Y/N)	Cumulative
			Roads & Location		1510-2			\$ 4,500.00
			Rig Mobilization		1510-4			\$ 8,000.00
			Contractor: Day Work		1510-6			\$ 2,600.00
			Contractor: Footage		1510-6			\$ 24,112.00
			Water		1510-8			\$ 2,800.00
			Fuel		1510-8			\$ -
			Mud / Diesel / Mineral Oil		1510-9			\$ 1,000.10
			Bits		1510-10			\$ -
			Equipment Rentals		1510-12			\$ 250.00
			Logging		1510-13			\$ -
			Cmt Serv./Cents, Float Equip.		1510-14			\$ 4,526.00
			Transportation		1510-16			\$ -
			Supervision		1510-18			\$ 400.00
			Casing Crew / Fillup Tool / LDM		1510-27			\$ -
			Misc. Services / Rentals		1510-28			\$ -
			Contingency (8.25%)		1510-28			\$ 2,339.87
			Drill Stem Test		1510-37			\$ -
			Mud Logging		1510-43			\$ -
			Surface Casing		1550-1			\$ 4,355.00
			Well Head & Slips		1550-4			\$ -
			P&A		1510-22			\$ -
			Total Length	0.00				\$ -
			Effective Bit Weight:					\$ -
			DP Weight					\$ 30,701.97
			DC Size					\$ 65,254.29
			DP Connection					Buoyancy Wt.

MW	Vls	PV	YP	Gals	Wtr. Loss	Cake	% Solids	% Sand	pH	Alk	Ca	Cl	% OIL	OWR
				10 sec	10 min	cc.	HHP	3rd						

Shaker Screen Size:	Date Last BOP Drill:	Date Last BOP Test:

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Reas. Pulled
1	12.25	JZ	Rock		15	15	0	0	0									
2	7.75	JZ	HA200		13	14	13	268	1775	1507	17.5	98.114	25	90				

Pump No.	Model	Stroke Length	Liner Size	Gal./Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	56	312.53	950	51.03	51.03		
No. 2		0	0	0.00		0.00					

Depth:	268	Deviation:	0.25	Depth:		Deviation:	
Depth:	1263	Deviation:	0.75	Depth:		Deviation:	
Depth:		Deviation:		Depth:		Deviation:	

BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:	
						Mud Logger	



**DAILY DRILLING REPORT**

Date:	8/30/2014	Operator:	New Gulf Operating	Well Name:	Marius # 1
Field or Prospect:	South Logan	County:	Logan	Contractor & Rig No.:	Val Rig # 4
Pres Depth:	2590.00	Footage:	815.00	Rot. Hrs.:	21.8
				Avg. ROP:	37.47
Present Operation:		Drilling Ahead @ 2515'		Phone No.:	620.617.2668
Last Casing (Size & Depth):		8 5/8 Set @ 264'	Shoe Test:	N/A	KB to GI: 0
Spud Date:	8/28/2014	Days from Spud:	3	Consultant:	Jim Henkle

From		To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	42.3
0630	1015	3.75	Drig 1775-1921'						
1015	1045	0.5	Rig Check						
1045	1100	0.25	Jet Pit # 1						
1100	1415	3.25	Drig 1921-2070'						
1415	1430	0.25	Jet Pit # 2						
1430	1600	1.5	Drig 2070-2110'						
1600	1615	0.25	Rig Check						
1615	1630	0.25	Jet Pit # 1						
1630	1945	3.25	Drig 2110-2205'						
1945	2000	0.25	Jet # 1 Add Premix						
2000	2215	2.25	Drig 2205-2267'						
2215	2230	0.25	Wireline Survey @ 2267'.75 Deg.						
2230	2245	0.25	Rig Check						
2245	0630	7.75	Drig 2267-2590'						
0630									

Driving Directions:

Total hrs 24.0 Diesel Used: 0 Diesel on Hand: 0

Qty	OD	ID	Description	Length	code	Drilling Cost		Before Csg. Point (Y/N)	Y
						Before Casing Point	Daily		
			Roads & Location		1510-2				
			Rig Mobilization		1510-4				
			Contractor: Day Work		1510-5			\$	900.00
			Contractor: Footage		1510-6			\$	11,600.00
			Water		1510-8			\$	2,800.00
			Fuel		1510-9			\$	3,590.45
			Mud / Diesel / Mineral Oil		1510-10			\$	250.00
			Bits		1510-12			\$	4,526.00
			Equipment Rentals		1510-13			\$	1,200.00
			Logging		1510-14			\$	4,526.00
			Crt Serv./Gents, Float Equip.		1510-16			\$	-
			Transportation		1510-18			\$	400.00
			Supervision		1510-27			\$	-
			Casing Crew / Fillup Tool / LDM		1510-28			\$	-
			Misc. Services / Rentals		1510-28			\$	1,381.09
			Contingency (8.25%)		1510-37			\$	-
			Drill Stem Test		1510-43			\$	-
			Mud Logging		1550-1			\$	4,355.00
			Surface Casing		1550-3			\$	-
			Well Head & Slips		1510-22			\$	-
			P&A					\$	-
			Total Length	0.00				\$	-

Effective Bit Weight:		DC Size	DC Weight	DC Grade	DC Connection	\$	18,121.54	\$	83,375.83
DP Size	DP Weight	DP Grade	DP Connection	DC Size	DC Weight	DC Grade	DC Connection	Buoyancy Wt.	
0				0					

MW	Vls	PV	YP	Gals		Wtr. Loss	Cake	% Solids	% Sand	pH	Alk	Ca	Cl	% OIL	OWR
				10 sec	10 min	cc.	HTHP	32nd	ES		Pm				
9.5	30														

Shaker Screen Size:		Date Last BOP Drill:		Date Last BOP Test:															
Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brg. Seal	Gage 1/16	Other Reas. Pulled	
1	12.25	JZ	Rock		15	15	0	0	0										
2	7.875	JZ	HK20Q		13	14	268	-268	0										

Pump		Model	Stroke Length	Liner Size	Gal./Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1		K-500	16	6	5.58	56	312.53	900	51.03	51.03		
No. 2			0	0	0.00		0.00					

Surveys		Depth:	268	Deviation:	0.25	Depth:	1263	Deviation:	0.75	Depth:	2267	Deviation:	0.75
BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:							

Mud Logger



**New Gulf Operating, LLC**  
 6310 East 102nd Street  
 Tulsa, OK 74137  
 Phone: 918-728-3020 Fax: 918-728-3194

**DAILY DRILLING REPORT**

Date: 8/31/2014	Operator: South Logan	New Gulf Operating	Well Name: Martius # 1
Field or Prospect: 3130.00	Footage: 540.00	County: Logan	Contractor & Rig No.: Val Rig # 4
Present Operation:	Rot. Hrs.: 21.8	Avg. ROP: 24.83	Phone No.: 620.677.2868
Last Casing (Size & Depth):	8 5/8 Set @ 264'	Shoe Test:	N/A
Spud Date: 8/28/2014	Days from Spud: 4	Consultant: Jim Henkle	KB to GI: 0

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	64.0	BHA Hours:	64.0
0630	0715	0.75	Drig 2590-2612'					
0715	0745	0.5	Rig Check					
0745	0800	0.25	Jet # 1					
0800	1400	6	Drig 2612-2769'					
1400	1415	0.25	Jet # 1					
1415	1530	1.25	Drig 2769-2801'					
1530	1545	0.25	Rig Check					
1545	1715	1.5	Drig 2801-2832'					
1715	1730	0.25	Jet # 1					
1730	2030	3	Drig 2832-2895'					
2030	2045	0.25	Jet # 2					
2045	2445	4	Drig 2895-2899'					
2445	0100	0.25	Rig Check					
0100	0500	4	Drig 2989-3083'					
0500	0515	0.25	Jet # 1					
0515	0630	1.25	Drig 3083-3130'					
0630								

Driving Directions:		
Total hrs	24.0	Diesel Used: 0
		Diesel on Hand: 0

Qty	OD	ID	Description	Length	code	Drilling Cost		Before Csg. Point (Y/N)	Cumulative
						Daily	Y		
Bottomhole Assembly									
			Roads & Location		1510-2				\$ 4,500.00
			Rig Mobilization		1510-4				\$ 8,000.00
			Contractor: Day Work		1510-5				\$ 7,200.00
			Contractor: Footage		1510-6				\$ 8,640.00
			Water		1510-8				\$ 2,800.00
			Fuel		1510-8				\$ -
			Mud / Diesel / Mineral Oil		1510-9				\$ 3,540.75
			Bits		1510-10				\$ 250.00
			Equipment Rentals		1510-12				\$ 1,000.00
			Consolidated Cementing Ticket # 46652		1510-14				\$ 4,526.00
			NGO Trailer & Generator		1510-16				\$ -
			Supervision		1510-18				\$ 400.00
			Casing Crew / Fillup Tool / LDM		1510-27				\$ -
			Misc. Services / Rentals		1510-28				\$ -
			Contingency (8.25%)		1510-28				\$ 1,132.79
			Drill Stem Test		1510-37				\$ -
			Mud Logging		1510-43				\$ -
			Surface Casing		1560-1				\$ 4,355.00
			Well Head & Slips		1560-8				\$ -
			P&A		1510-22				\$ -
			Total Length						\$ 0.00
			Effective Bit Weight						\$ -
			DP Size						\$ 14,863.54
			DC Weight						\$ 98,239.36
			DC Connection						\$ -
			Buoyancy Wt.						\$ -

MW	Vis	PV	YP	Mud Properties				Ca	Cl	% OIL	OWR	
				Gels	Wtr. Loss	Calc	% Solids					pH
9.5	30			10 sec	10 min	cc.	HTHP	32nd				
Shaker Screen Size:												
Date Last BOP Drill:												
Date Last BOP Test:												

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Reas.	
																					268
1	12.25	JZ	Rock		15	15	0		0												
2	7.875	JZ	HA20Q		13	14	13	268	-268		0										

Pump No.	Model	Stroke Length	Liner Size	Gal. Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	56	312.53	1000	51.03	51.03		
No. 2		0	0	0.00		0.00					

Depth:	268	Deviation:	0.25	Depth:	1263	Deviation:	0.75	Depth:	2267	Deviation:	0.75
Depth:	268	Deviation:	0.25	Depth:	1263	Deviation:	0.75	Depth:	2267	Deviation:	0.75
Depth:		Deviation:		Depth:		Deviation:		Depth:		Deviation:	

BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:	
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**DAILY DRILLING REPORT**

Date: 9/12/2014 Operator: South Logan County: Logan Well Name: Marius # 1  
 Field or Prospect: South Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 3535.00 Footage: 405.00 Rot. Hrs.: 20.5 Avg. ROP: 19.76 Phone No.: 620.617.2868  
 Present Operation: Drilling Ahead @ 3540'

Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: N/A KB to GL: 0  
 Spud Date: 8/28/2014 Days from Spud: 5 Consultant: Jim Henkie

From To Hrs Repair Hrs. for day: 0 Repair Hrs. for month: 0 BHA Hours: 64.5

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	64.5
0630	0830	2	Drig 3130-3177'					
0830	0900	0.5	Rig Check					
0900	1545	6.75	Drig 3177-3302'					
1545	1600	0.25	Rig Check					
1600	1800	2	Drig 3302-3334'					
1800	1830	0.5	Jet # 2 for Displace					
1830	0130	7	Drig 3334-3460'					
0130	0230	1	Jet # 1 & Cellar & Displace Complete @ 3460'					
0230	0245	0.25	Rig Check					
0245	0345	1	Work on pump					
0345	0630	2.75	Drig 3460-3535'					
0630								

Qty	OD	ID	Description	Length	code	Before Casing Point	Drilling Cost	Diesel on Hand:	Before Csg. Point (Y/N)	Cumulative
										Y
			Bottomhole Assembly							
					1510-2	Roads & Location				\$ 4,500.00
					1510-4	Rig Mobilization				\$ 8,000.00
					1510-5	Contractor: Day Work				\$ 8,600.00
					1510-6	Contractor: Footage				\$ 6,480.00
					1510-8	Water				\$ 2,800.00
					1510-8	Fuel				\$ -
					1510-9	Mud / Diesel / Mineral Oil				\$ 1,873.60
					1510-10	Bits				\$ -
					1510-12	Equipment Rentals				\$ 250.00
					1510-13	Logging				\$ -
					1510-14	Cmt Serv./Cents, Float Equip.				\$ 4,526.00
					1510-16	Transportation				\$ -
					1510-18	Supervision				\$ 400.00
					1510-27	Casing Crew / Fillup Tool / LDM				\$ -
					1510-28	Misc. Services / Rentals				\$ -
					1510-28	Contingency (8.25%)				\$ 858.30
					1510-37	Drill Stem Test				\$ -
					1510-43	Mud Logging				\$ -
					1550-1	Surface Casing				\$ 4,355.00
					1550-8	Well Head & Slips				\$ -
					1510-22	P&A				\$ -
						Total Length				0.00

Total hrs 24.0 Diesel Used: 0 Diesel on Hand: 0

Effective Bit Weight:	DP Weight	DP Grade	DP Connection	DC Size	DC Weight	DC Grade	DC Connection	Buoyancy Wt.
0				0				11,261.90
								109,501.26

MW	Vis	PV	YP	Gels	10 min	cc	HTHP	Wtr. Loss	32nd	Cake	% Solids	% Sand	pH	ES	AK	Pm	Ca	Cl	% OIL	OWR	
8.6	47																				

Bit No.	Size (in)	M/Kg	Type	Serial No.	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other	Reas. Pulled	
1	12.25	JZ	Rock		15	15	0	0		0											
2	7.875	JZ	HA20Q		13	14	13	268		-268											

Pump No.	Model	Stroke Length	Liner Size	Gal./Stk. 95% Eff.	SPM	GPW	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	60	334.86	1000	54.67	54.67		
No. 2		0	0	0.00		0.00					

Depth:	268	Deviation:	0.25	Depth:	1263	Deviation:	0.75	Depth:	2267	Deviation:	0.75
Surveys											

BG Gas: 0 Conn. Gas: 0 Trip Gas: 0 Remarks:



Date:	9/2/2014	Operator:	South Logan	New Gulf Operating	Well Name:	Martus # 1			
Field or Prospect:	3950.00	Footage:	415.00	Rot. Hrs.:	17.5	Avg. ROP:	23.71	Contractor & Rig No.:	Vai Rig # 4
Present Operation:								Phone No.:	620.617.2868
Last Casing (Size & Depth):								CFS @ 3950'	
Spud Date:	8/28/2014	8 5/8 Set @ 264'	Days from Spud:	6	Shoe Test:	N/A	KB to GL:	0	
								Consultant:	Jim Henkle

Breakdown of Operations									
From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	102.0	
0630	0900	2.5	Drig 3535-3585'						
0900	0930	0.5	Rig Check & Clean Screen						
0930	1030	1	Drig 3585-3616'						
1030	1045	0.25	Run Wireline Survey .25 Deg.						
1045	1445	4	Drig 3616-3710'						
1445	1500	0.25	Rig Check						
1500	1800	3	Drig 3710-3800'						
1800	1900	1	CFS @ 3800'						
1900	2200	3	TOH w bit Wiper Trip						
2200	2300	1	CTCH						
2300	0145	2.75	Drig 3800-3867'						
0145	0200	0.25	Pick up pit mud						
0200	0615	4.25	Drig 3867-3950'						
0615	0630	0.25	CFS @ 3950'						
0630									
Driving Directions:									
Total hrs	24.0	Diesel Used:	0	Diesel on Hand:					

Qty	OD	ID	Description	Length	code	Drilling Cost		Before Cag. Point (Y/N)	Y
						Before Casing Point	Daily		
			Roads & Location		1510-2				\$ 4,500.00
			Rig Mobilization		1510-4				\$ 8,000.00
			Contractor: Day Work		1510-5				\$ 1,200.00
			Contractor: Footage		1510-6				\$ 6,640.00
			Water		1510-8				\$ 2,800.00
			Fuel		1510-8				\$ -
			Mud / Diesel / Mineral Oil		1510-9				\$ 1,430.70
			Bits		1510-10				\$ 250.00
			Equipment Rentals		1510-12				\$ -
			Logging		1510-13				\$ -
			Cmt Serv/Cents, Float Equip.		1510-14				\$ 4,526.00
			Transportation		1510-16				\$ -
			Supervision		1510-18				\$ 400.00
			Casing Crew / Fillup Tool / LDM		1510-27				\$ -
			Misc. Services / Rentals		1510-28				\$ -
			Contingency (8.25%)		1510-28				\$ 933.96
			Drill Stem Test		1510-37				\$ -
			Mud Logging		1510-43				\$ -
			Surface Casing		1550-1				\$ 4,355.00
			Well Head & Slips		1550-8				\$ -
			P&A		1510-22				\$ -
			Total Length	0.00					\$ -

Effective Bit Weight:		Total Costs	\$ 12,254.66	DC Connection	\$ 121,755.92			
DP Size	DP Weight	DP Grade	DP Connection	DC Size	DC Weight	DC Grade	DC Connection	Buoyancy Wt.
0			0					

MW	Vls	PV	YP	Gels		Wtr. Loss	Cake	% Solids	% Sand	pH	Alk	Ca	Cl	% OIL	OWR
8.9	50	17	18	10 sec	10 min	cc.	HTRP	32nd	tr	ES	Pm	80	4000		
Mud Properties															
Shaker Screen Size:															
Date Last BOP Drill:															
Date Last BOP Test:															

Bit Record																				
Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Bmg. Seal	Gage 1/16	Other Dull	Reas. Pulled	
1	12.25	JZ	Rock		15	15	0	0	0											
2	7.875	JZ	HA20Q		13	14	13	3535	3950	415	17.5	23.714	36	70						

Pump Data															
Pump No.	Model	Stroke Length	Liner Size	Gal./Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity	DC's	SPM	Kill Rate				
No. 1	K-500	16	6	5.58	60	334.86	1000	54.67	54.67						
No. 2		0	0	0.00		0.00									

Surveys															
Depth:	268	Deviation:	0.25	Depth:	3616	Deviation:	0.25								
Depth:	1263	Deviation:	0.75	Depth:		Deviation:									
Depth:	2267	Deviation:	0.75	Depth:		Deviation:									

BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:	
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**New Gulf Operating, LLC**  
 6310 East 102nd Street  
 Tulsa, OK 74137  
 Phone: 918-728-3020 Fax: 918-728-3194

**DAILY DRILLING REPORT**

Date: 9/3/2014 Operator: New Gulf Operating Well Name: Martius # 1  
 Field or Prospect: South Logan County: Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 4310.00 Footage: 360.00 Rot. Hrs.: 19.0 Avg. ROP: 18.95 Phone No.: 620.617.2868  
 Present Operation: TOH # DST # 1

Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: N/A KB to GI.: 0  
 Spud Date: 8/28/2014 Days from Spud: 7 Consultant: Jim Henkle  
 Breakdown of Operations Repair Hrs. for month: 0 BHA Hours: 121.0

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	121.0
0630	0715	0.75	CFS @ 3950'					
0715	0900	1.75	DtHg 3950-3991'					
0900	0930	0.5	Rig Check					
0930	1015	0.75	DtHg 3991-4006'					
1015	1115	1	CFS @ 4006'					
1115	1315	2	DtHg 4006-4048'					
1315	1415	1	CFS @ 4048'					
1415	1430	0.25	DtHg 4048-4054'					
1430	1445	0.25	Rig Check					
1445	2000	5.25	DtHg 4054-4150'					
2000	2100	1	CFS @ 4150'					
2100	2445	3.75	DtHg 4150-4210'					
2445	0100	0.25	Rig Check					
0100	0445	3.75	DtHg 4210-4284'					
0445	0500	0.25	Work on Pump					
0500	0630	1.5	DtHg 4284-4310'					
0630								

Driving Directions:  
 Total hrs 24.0 Diesel Used: 0 Diesel on Hand: 0

Qty	OD	ID	Description	Length	code	Before Casing Point	Before Cag. Point (VNI)	Cumulative
			Roads & Location		1510-2			\$ 4,500.00
			Rig Mobilization		1510-4			\$ 8,000.00
			Contractor: Day Work		1510-6			\$ 13,200.00
			Contractor: Footage		1510-8			\$ 67,520.00
			Water		1510-8			\$ 2,800.00
			Fuel		1510-9			\$ -
			Mud / Diesel / Mineral Oil		1510-10			\$ 2,810.75
			Bits		1510-10			\$ -
			Equipment Rentals		1510-13			\$ 250.00
			Logging		1510-14			\$ 1,750.00
			Cnt Serv/Cents, Float Equip.		1510-16			\$ 4,526.00
			Supervision		1510-18			\$ 400.00
			Casing Crew / Fillup Tool / LDM		1510-27			\$ -
			Misc. Services / Rentals		1510-28			\$ -
			Contingency (8.25%)		1510-28			\$ 925.71
			Drill Stem Test		1510-37			\$ -
			Mud Logging		1510-43			\$ -
			Surface Casing		1550-1			\$ 4,355.00
			Well Head & Slips		1550-8			\$ -
			P&A		1510-22			\$ -
			Total Length	0.00				\$ -
			Total Costs					\$ 12,146.46
			DC Size					\$ 133,902.38
			DC Weight					\$ -
			DC Grade					\$ -
			DC Connection					\$ -
			Buoyancy Wt.					\$ -

MW	Vls	PV	YP	Gals	Wtr. Loss	Cake	% Solids	% Sand	pH	Alk	Ca	Cl	% OIL	OWR
				10 sec	10 min	cc.	HTHP	32nd						

Shaker Screen Size: \_\_\_\_\_ Date Last BOP Drill: \_\_\_\_\_ Date Last BOP Test: \_\_\_\_\_

Bit Record

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Dull	Reas. Piled	
1	12.25	JZ	Rock		15	15	0	0	0												
2	7.875	JZ	HA20Q		13	14	13	3950	4310	360	19	18.947						36	70		

Pump Data

No.	Model	Stroke Length	Liner Size	Gal. / Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.88	60	334.86	1000	54.67	54.67		
No. 2		0	0	0.00		0.00					

Surveys

Depth:	268	Deviation:	0.25	Depth:	3616	Deviation:	0.25
Depth:	1263	Deviation:	0.75	Depth:		Deviation:	
Depth:	2267	Deviation:	0.75	Depth:		Deviation:	

BG Gas: 0 Conn. Gas: 0 Trip Gas: 0 Mud Logger: \_\_\_\_\_ Remarks: \_\_\_\_\_



**New Gulf Operating, LLC**  
 6310 East 102nd Street  
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**DAILY DRILLING REPORT**

Date: 9/4/2014	Operator: South Logan	New Gulf Operating	Well Name: Martius # 1
Field or Prospect: 4378.00	Footage: 68.00	Rot. Hrs.: 6.0	Contractor & Rig No.: Val Rig # 4
Present Operation:	CFS @ 4378' Fixing to do DST # 2		Phone No.: 620.617.2868
Last Casing (Size & Depth):	8 5/8 Set @ 264'	Shoe Test:	N/A
Spud Date: 8/28/2014	Days from Spud: 8	Consultant: Jim Henkle	KB to GL: 9'

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	127.0
0630	0745	1.25	Drig 4310-4326'					
0745	0845	1	CFS @ 4326'					
0845	1030	1.75	Short Trip (20 Stands)					
1030	1130	1	CTCH					
1130	1145	0.25	Drop Survey 1 Deg.					
1145	1415	2.5	TOH f/ DST # 1 (Strapped Out) Strap .84 Short					
1415	1445	0.5	Pick up make up test tool					
1445	1630	1.75	TH w/ test tool & pick up test stands					
1630	1930	3	Testing					
1930	2145	2.25	TOH w Test tool & Dump fluid					
2145	2230	0.75	Break and lay tool down					
2230	2245	0.25	Rig Check					
2245	2445	2	TH w/ bit					
2445	0145	1	CTCH					
0145	0630	4.75	Drig 4326-4378'					
0630								

<b>Driving Directions:</b>	
<b>Total hrs</b>	<b>24.0</b>
<b>Diesel Used:</b>	<b>0</b>
<b>Diesel on Hand:</b>	

Qty	OD	ID	Description	Length	code	Drilling Cost		Before Csg. Point (Y/N)	Y
						Before Casing Point	Daily		
			Roads & Location		1510-2				
			Rig Mobilization		1510-4			\$ 4,500.00	
			Contractor: Day Work		1510-5			\$ 8,000.00	
			Contractor: Footage		1510-6			\$ 7,200.00	
			Water		1510-8			\$ 1,088.00	
			Fuel		1510-8			\$ 2,800.00	
			Mud / Diesel / Mineral Oil		1510-9			\$ (594.85)	\$ 13,651.50
			Bits		1510-10			\$ 250.00	\$ 2,000.00
			Equipment Rentals		1510-13			\$ -	\$ -
			Logging		1510-14			\$ -	\$ 4,526.00
			Cmt Serv./Cents, Float Equip.		1510-14			\$ -	\$ -
			Transportation		1510-16			\$ -	\$ -
			Supervision		1510-18			\$ 400.00	\$ 3,200.00
			Casing Crew / Fillup Tool / LDM		1510-27			\$ -	\$ -
			Misc. Services / Rentals		1510-28			\$ -	\$ -
			Contingency (8.25%)		1510-28			\$ 889.81	\$ 11,074.84
			Drill Stem Test		1510-37			\$ 2,200.00	\$ 2,200.00
			Mud Logging		1510-43			\$ -	\$ -
			Surface Casing		1550-1			\$ -	\$ 4,355.00
			Well Head & Slips		1550-4			\$ -	\$ -
			P&A		1510-22			\$ -	\$ -
			<b>Total Length</b>					<b>0.00</b>	<b>0.00</b>

<b>Effective Bit Weight:</b>	
<b>DP Size</b>	<b>DP Weight</b>
<b>DP Grade</b>	<b>DP Connection</b>
<b>DC Size</b>	<b>DC Weight</b>
<b>DC Grade</b>	<b>DC Connection</b>
<b>0</b>	<b>0</b>

MW	Vis	PV	YP	Gels				Wtr. Loss				Mud Properties					
				10 sec	10 min	cc.	HTHP	32nd	% Solids	% Sand	pH	AK	Ca	CI	% OIL		
9.1	54	17	18				8.3	1	10								

<b>Shaker Screen Size:</b>	
<b>Date Last BOP Drill:</b>	
<b>Date Last BOP Test:</b>	

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets		Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other	Reas. Pulled
					/32	/32															
1	12.25	JZ	Rock		15	15	0														
2	7.875	JZ	HA20Q		13	14	4310	4378	68	6	11.333	36	64								

<b>Pump Data</b>																					
<b>Pump Model</b>	<b>Stroke Length</b>	<b>Liner Size</b>	<b>Gal./Stk. 95% Eff.</b>	<b>SPM</b>	<b>GPM</b>	<b>Pressure psi</b>	<b>Annular Velocity</b>	<b>DC's</b>	<b>SPM</b>	<b>Kill Rate Pres.</b>											
No. 1 K-500	16	6	5.58	60	334.86	950	54.67	54.67													
No. 2	0	0	0.00		0.00																

<b>Surveys</b>																					
<b>Depth:</b>	<b>268</b>	<b>Deviation:</b>	<b>0.25</b>	<b>Depth:</b>	<b>3616</b>	<b>Deviation:</b>	<b>0.25</b>														
<b>Depth:</b>	<b>1263</b>	<b>Deviation:</b>	<b>0.75</b>	<b>Depth:</b>	<b>4310</b>	<b>Deviation:</b>	<b>1</b>														
<b>Depth:</b>	<b>2267</b>	<b>Deviation:</b>	<b>0.75</b>	<b>Depth:</b>		<b>Deviation:</b>															

<b>BG Gas:</b>	<b>0</b>	<b>Conn. Gas:</b>	<b>0</b>	<b>Trip Gas:</b>	<b>0</b>	<b>Remarks:</b>	
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**DAILY DRILLING REPORT**

Date: 9/7/2014 Operator: South Logan New Gulf Operating Well Name: Martus # 1  
 Field or Prospect: South Logan County: Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 4665.00 Footage: 100.00 Rot. Hrs.: 7.5 Avg. ROP: 13.33 Phone No.: 620.617.2868  
 Present Operation: Drilling Ahead @ 4695'

Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: 11 Consultant: N/A KB to GL: 9'  
 Spud Date: 8/28/2014 Days from Spud: 11 Breakdown of Operations  
 From To Hrs Repair Hrs. for day: 0 Repair Hrs. for month: 0 BHA Hours: 151.8

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	151.8
0630	0800	1.5	Drig 4565-4586'					
0800	0830	0.5	Rig Check					
0830	0845	0.25	Jel Pit # 1					
0845	1200	3.25	Drig 4586-4638'					
1200	1300	1	CFS @ 4638'					
1300	1530	2.5	TOH f/ DST # 4					
1530	1600	0.5	Pick up make up test tool					
1600	1615	0.25	Rig Check					
1615	1745	1.5	TIH w/ test tool					
1745	2045	3	Testing					
2045	2300	2.25	TOH w/ test tool & dump fluid					
2300	2345	0.75	Break & lay down tool					
2345	0215	2.5	TIH w/ bit					
0215	0300	0.75	WOP					
0300	0330	0.5	CTCH					
0330	0445	1.25	Drig 4638-4648'					
0445	0500	0.25	WOP					
0500	0630	1.5	Drig 4648-4665'					
0630								

**Driving Directions:**

Total hrs 24.0 Diesel Used: 0 Diesel on Hand: 0

Qty	OD	ID	Description	Length	code	Before Casing Point	Before Csg. Point (Y/N)	Cumulative
			1510-2		Roads & Location		Daily	
			1510-4		Rig Mobilization			4,500.00
			1510-5		Contractor: Day Work			8,000.00
			1510-6		Contractor: Footage			6,600.00
			1510-8		Water			1,600.00
			1510-8		Fuel			2,800.00
			1510-9		Mud / Diesel / Mineral Oil			963.10
			1510-10		Bits			250.00
			1510-12		Equipment Rentals			2,750.00
			1510-13		Logging			4,526.00
			1510-14		Cmt Serv./Cants. Float Equip.			4,400.00
			1510-16		Transportation			400.00
			1510-18		Supervision			4,400.00
			1510-27		Casing Crew / Fillup Tool / LDM			4,400.00
			1510-28		Misc. Services / Rentals			991.08
			1510-28		Contingency (8.25%)			2,200.00
			1510-37		Drill Stem Test			2,200.00
			1510-43		Mud Logging			8,800.00
			1550-1		Surface Casing			4,355.00
			1550-4		Well Head & Slips			4,355.00
			1510-22		P&A			13,004.18
					Total Length			184,249.19
					Total Costs			13,004.18
					DC Size			DC Connection
					DC Weight			DC Grade
					DC Connection			DC Connection

DP Size	DP Weight	DP Grade	DP Connection	DC Size	DC Weight	DC Grade	DC Connection	Buoyancy Wt.
0				0				

MW	Vls	PV	VP	Gels	Wtr. Loss	Cake	% Solids	% Sand	pH	Alk	Ca	Cl	% Oil	OWR
9.1	58	16	19	10 sec	10 min	cc.	HTHP	32nd						
						8.9		1			40	7300		

Shaker Screen Size: Date Last BOP Drill: Date Last BOP Test:

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Dull	Reas. Pulled	
1	12.25	JZ	Rock		15	15	0	0	0											
2	7.875	JZ	HA20Q		13	14	13	4565	4665	100	7.5	13.333	36	65						

**Pump Data**

No.	Model	Stroke Length	Liner Size	Gal. /Stk. 95% Eff.	SPM	GPW	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	0.00	0.00		0.00	0.00		
No. 2		0	0	0.00	0.00	0.00					

**Surveys**

Depth:	268	Deviation:	0.25	Depth:	3616	Deviation:	0.25
Depth:	1263	Deviation:	0.75	Depth:	4310	Deviation:	1
Depth:	2267	Deviation:	0.75	Depth:		Deviation:	

BG Gas: 0 Conn. Gas: 0 Trip Gas: 0 Mud Logger: Remarks:











Date: 8/28/2014 Operator: New Gulf Operating Well Name: Martus # 1  
 Field or Prospect: South Logan County: Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 268.00 Footage: 268.00 Rot. Hrs.: 3.0 Avg. ROP: 89.33 Phone No.: 620.617.2868  
 Present Operation: WOC

Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: N/A KB to GL:  
 Spud Date: 8/28/2014 Days from Spud: 1 Consultant: Jim Henkle  
 Breakdown of Operations

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	3.0
1930	0915	0.75	Spud					
2030	0945	0.5	Plug bit					
2115	1200	2.25	Drig 100-268'					
2145	1230	0.5	CTCH, Drop Survey					
2400	1300	0.5	TOH w/ bit					
2430	1415	1.25	Run 8 5/8					
0100	1445	0.5	Cement					
2454	0630	3.75	WOC					
0630								

Run 6 New Jts. 24# J-55 8 5/8 Tally 252.37 Set @ 264'  
 Cement w/ 200 sx. Comm 3% CC & 2% Gel  
 Cement DID Circ.  
 Consolidated Cementing Ticket # 46652

Driving Directions:

Total hrs	10.0	Diesel Used:	0	Diesel on Hand:	0	Before Csg. Point (Y/N)	Y
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Qty	OD	ID	Description	Length	code	Before Casing Point	Daily	Y
Bottomhole Assembly								
					1510-2	Roads & Location	\$ 4,500.00	\$ 4,500.00
					1510-4	Rig Mobilization	\$ 8,000.00	\$ 8,000.00
					1510-5	Contractor: Day Work	\$ 2,800.00	\$ 2,800.00
					1510-6	Contractor: Footage	\$ 4,288.00	\$ 4,288.00
					1510-8	Water	\$ 2,800.00	\$ 2,800.00
					1510-8	Fuel	\$ -	\$ -
					1510-9	Mud / Diesel / Mineral Oil	\$ -	\$ -
					1510-10	Bits	\$ 250.00	\$ 250.00
					1510-12	Equipment Rentals	\$ -	\$ -
					1510-13	Logging	\$ 4,526.00	\$ 4,526.00
					1510-14	Cmt Serv./Cents, Float Equip.	\$ -	\$ -
					1510-16	Transportation	\$ 400.00	\$ 400.00
					1510-18	Supervision	\$ -	\$ -
					1510-27	Casing Crew / Fillup Tool / LDM	\$ -	\$ -
					1510-28	Misc. Services / Rentals	\$ 2,633.32	\$ 2,633.32
					1510-37	Drill Stem Test	\$ -	\$ -
					1510-43	Mud Logging	\$ 4,355.00	\$ 4,355.00
					1560-1	Surface Casing	\$ -	\$ -
					1560-8	Well Head & Slips	\$ -	\$ -
					1510-22	P&A	\$ -	\$ -
						Total Length	0.00	

Effective Bit Weight:	DP Weight	DP Grade	DP Connection	DC Size	DC Weight	DC Grade	DC Connection	Buoyancy Wt.

MW	Vis	PV	YP	Gels	10 min	Wtr. Loss	32nd	Cake	% Solids	% Sand	pH	ES	AIK	Pm	Ca	Cl	% OIL	OWR	

Shaker Screen Size: Date Last BOP Drill: Date Last BOP Test:

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB (1000 lbs)	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Dull	Reas. Pulled	
1	12.25	UZ	Rock		15	15	0	268.00	268	3	89.333	ALL	90								

Pump No.	Model	Stroke Length	Liner Size	Gal. / Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.88	56	312.53	450	51.03	51.03		
No. 2				0.00		0.00					

Depth:	268	Deviation:	0.25	Depth:		Deviation:	
Depth:		Deviation:		Depth:		Deviation:	
Depth:		Deviation:		Depth:		Deviation:	

BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:
BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:



**DAILY DRILLING REPORT**

Date:	8/29/2014	Operator:	South Logan	County:	Logan	Well Name:	Marius # 1		
Field or Prospect:	1775.00	Footage:	1507.00	Rot. Hrs.:	17.5	Avg. ROP:	86.11	Contractor & Rig No.:	Vai Rig # 4
Present Operation:		Drilling Ahead @ 1815'		Phone No.:			620.617.2868		
Last Casing (Size & Depth):	8 5/8 Set @ 264'	Shoe Test:	N/A	KB to GL:					
Spud Date:	8/28/2014	Days from Spud:	2	Consultant:	Jim Henkle				

Breakdown of Operations									
From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	20.5	
0630	1045	4.25	WOC						
1045	1100	0.25	Test BOP						
1100	1115	0.25	Drig Plug						
1115	1515	4	Drig 268-702'						
1515	1530	0.25	Rig Check						
1530	1600	0.5	Drig 702-764'						
1600	1615	0.25	Jet Pit # 1						
1615	1945	3.5	Drig 764-1201'						
1945	2000	0.25	Jet Pit # 1						
2000	2015	0.25	Drig 1201-1263'						
2015	2045	0.5	Wireline Survey @ 1263'. 75 Deg.						
2045	2430	3.75	Drig 1263-1545'						
2430	2445	0.25	Rig Check						
2445	0115	0.5	Drig 1545-1576'						
0115	0130	0.25	Jet Pit # 1						
0130	0630	5	Drig 1576-1775'						
0630									

Driving Directions: \_\_\_\_\_

Total hrs: 24.0 Diesel Used: \_\_\_\_\_ Diesel on Hand: \_\_\_\_\_

Qty	OD	ID	Description	Length	code	Drilling Cost		Before Csg. Point (Y/N)	Y			
						Before Casing Point	Daily					
			Roads & Location		1510-2		\$ 4,500.00					
			Rig Mobilization		1510-4		\$ 8,000.00					
			Contractor: Day Work		1510-5		\$ 2,600.00					
			Contractor: Footage		1510-6		\$ 24,112.00					
			Water		1510-8		\$ 2,800.00					
			Fuel		1510-8		\$ -					
			Mud / Diesel / Mineral Oil		1510-9		\$ 1,000.10					
			Bits		1510-10		\$ -					
			Equipment Rentals		1510-12		\$ 250.00					
			Logging		1510-13		\$ -					
			Cmt Serv./Cents, Float Equip.		1510-14		\$ 4,526.00					
			Transportation		1510-16		\$ -					
			Supervision		1510-18		\$ 400.00					
			Casing Crew / Fillup Tool / LDM		1510-27		\$ -					
			Misc. Services / Rentals		1510-28		\$ -					
			Contingency (8.25%)		1510-28		\$ 2,339.87					
			Drill Stem Test		1510-37		\$ -					
			Mud Logging		1510-43		\$ -					
			Surface Casing		1550-1		\$ 4,355.00					
			Well Head & Slips		1550-5		\$ -					
			P&A		1510-22		\$ -					
			Total Length	0.00			\$ -					
			Effective Bit Weight:				\$ 30,701.97		\$ 65,254.29			
			DP Size	DP Weight	DP Grade	DP Connection	DC Size	DC Weight	DC Grade	DC Connection	DC Connection	Buoyancy Wt.
			0				0					

Mud Properties																				
MW	Vls	PV	YP	Gels	10 min	10 min	cc.	HTHP	3rd	% Solids	% Sand	pH	ES	PI	Pm	Ca	CI	% OIL	OWR	

Shaker Screen Size:																					
Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPW	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Reas. Pulled	
1	12.25	JZ	Rock		15	15	0		0												
2	7.75	JZ	HA200		13	14	268	1775	1507	17.5	98.114	25	90								

Pump Data												
Pump No.	Model	Stroke Length	Liner Size	Gal./Stk. 95% Eff.	SPM	GPM	Pressure psi	DP	Annular Velocity	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	56	312.53	950	51.03		51.03		
No. 2		0	0	0.00		0.00						

Surveys									
Depth:	268	Deviation:	0.25	Depth:		Deviation:		Depth:	
Depth:	1263	Deviation:	0.75	Depth:		Deviation:		Depth:	
Depth:		Deviation:		Depth:		Deviation:		Depth:	

BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:	Mud Logger
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**DAILY DRILLING REPORT**

Date:	8/30/2014	Operator:	New Gulf Operating	Well Name:	Marius # 1
Field or Prospect:	South Logan	County:	Logan	Contractor & Rig No.:	Val Rig # 4
Pres Depth:	2590.00	Footage:	815.00	Rot. Hrs.:	21.8
				Avg. ROP:	37.47
				Phone No.:	620.617.2668
Present Operation:	Drilling Ahead @ 2515'				
Last Casing (Size & Depth):	8 5/8 Set @ 264'	Shoe Test:	N/A	KB to GI:	0
Spud Date:	8/28/2014	Days from Spud:	3	Consultant:	Jim Henkle

From		To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	42.3
0630	1015	3.75	Drig 1775-1921'						
1015	1045	0.5	Rig Check						
1045	1100	0.25	Jet Pit # 1						
1100	1415	3.25	Drig 1921-2070'						
1415	1430	0.25	Jet Pit # 2						
1430	1600	1.5	Drig 2070-2110'						
1600	1615	0.25	Rig Check						
1615	1630	0.25	Jet Pit # 1						
1630	1945	3.25	Drig 2110-2205'						
1945	2000	0.25	Jet # 1 Add Premix						
2000	2215	2.25	Drig 2205-2267'						
2215	2230	0.25	Wireline Survey @ 2267'.75 Deg.						
2230	2245	0.25	Rig Check						
2245	0630	7.75	Drig 2267-2590'						
0630									

Total hrs		24.0	Diesel Used:	0	Diesel on Hand:	
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Qty	OD	ID	Description	Length	code	Before Casing Point	Daily	Before Csg. Point (Y/N)	Cumulative
			Bottomhole Assembly					Y	
					1510-2	Roads & Location			\$ 4,500.00
					1510-4	Rig Mobilization			\$ 8,000.00
					1510-5	Contractor: Day Work			\$ 6,300.00
					1510-6	Contractor: Footage			\$ 11,600.00
					1510-8	Water			\$ 40,000.00
					1510-9	Fuel			\$ 2,800.00
					1510-9	Mud / Diesel / Mineral Oil			\$ 3,590.45
					1510-10	Bits			\$ 4,590.55
					1510-12	Equipment Rentals			\$ 250.00
					1510-13	Logging			\$ 750.00
					1510-14	Crt Serv./Gents, Float Equip.			\$ 4,526.00
					1510-16	Transportation			\$ -
					1510-18	Supervision			\$ 400.00
					1510-27	Casing Crew / Fillup Tool / LDM			\$ 1,200.00
					1510-28	Misc. Services / Rentals			\$ -
					1510-28	Contingency (8.25%)			\$ 1,381.09
					1510-37	Drill Stem Test			\$ -
					1510-43	Mud Logging			\$ -
					1550-1	Surface Casing			\$ 4,355.00
					1550-3	Well Head & Slips			\$ -
					1510-22	P&A			\$ -
						Total Length			\$ 0.00
						Total Costs			\$ 18,121.54
						DC Weight			\$ 83,375.83
						DC Connection			\$ -

Effective Bit Weight:		DP Weight:		DP Grade:		DC Size:		DC Weight:		DC Grade:		DC Connection:		Buoyancy Wt.	
DP Size:	0	DP Weight:	0	DP Connection:		DC Size:	0	DC Weight:		DC Grade:		DC Connection:			

MW	Vls	PV	YP	Gals	10 sec	10 min	Wtr. Loss	cc.	HTHP	32nd	Cake	% Solids	% Sand	pH	ES	Alk	Pm	Ca	Cl	% OIL	OWR	
9.5	30																					

Shaker Screen Size:		Date Last BOP Drill:		Date Last BOP Test:	
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Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Dull	Reas. Pulled	
1	12.25	JZ	Rock		15	15	0		0		0											
2	7.875	JZ	HK20Q		13	14	13	268	-268		0											

Pump No.	Model	Stroke Length	Liner Size	Gal./Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	56	312.53	900	51.03	51.03		
No. 2		0	0	0.00		0.00					

Depth:	268	Deviation:	0.25	Depth:		Deviation:	
Depth:	1263	Deviation:	0.75	Depth:		Deviation:	
Depth:	2267	Deviation:	0.75	Depth:		Deviation:	

BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:	
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**DAILY DRILLING REPORT**

Date: 8/31/2014 Operator: New Gulf Operating Well Name: Martius # 1  
 Field or Prospect: South Logan County: Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 3130.00 Footage: 540.00 Rot. Hrs.: 21.8 Avg. ROP: 24.83 Phone No.: 620.677.2868  
 Present Operation: Drilling Ahead @ 3136'

Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: N/A KB to GI: 0  
 Spud Date: 8/28/2014 Days from Spud: 4 Consultant: Jim Henkle

**Breakdown of Operations**

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	64.0
0630	0715	0.75	Drig 2590-2612'					
0715	0745	0.5	Rig Check					
0745	0800	0.25	Jet # 1					
0800	1400	6	Drig 2612-2769'					
1400	1415	0.25	Jet # 1					
1415	1530	1.25	Drig 2769-2801'					
1530	1545	0.25	Rig Check					
1545	1715	1.5	Drig 2801-2832'					
1715	1730	0.25	Jet # 1					
1730	2030	3	Drig 2832-2895'					
2030	2045	0.25	Jet # 2					
2045	2445	4	Drig 2895-2899'					
2445	0100	0.25	Rig Check					
0100	0500	4	Drig 2989-3083'					
0500	0515	0.25	Jet # 1					
0515	0630	1.25	Drig 3083-3130'					
0630								

Driving Directions:  
 Total hrs 24.0 Diesel Used: 0 Diesel on Hand: 0

Qty	OD	ID	Description	Length	code	Drilling Cost		Before Csg. Point (Y/N)	Cumulative
						Before Casing Point	Daily		
			Roads & Location		1510-2				\$ 4,500.00
			Rig Mobilization		1510-4				\$ 8,000.00
			Contractor: Day Work		1510-5				\$ 7,200.00
			Contractor: Footage		1510-6				\$ 8,640.00
			Water		1510-8				\$ 2,800.00
			Fuel		1510-8				\$ -
			Mud / Diesel / Mineral Oil		1510-9				\$ 3,540.75
			Bits		1510-10				\$ 250.00
			Equipment Rentals		1510-12				\$ 1,000.00
			Consolidated Cementing Ticket # 46652		1510-14				\$ 4,526.00
			NGO Trailer & Generator		1510-16				\$ 1,600.00
			Supervision		1510-18				\$ 400.00
			Casing Crew / Fillup Tool / LDM		1510-27				\$ -
			Misc. Services / Rentals		1510-28				\$ -
			Contingency (8.25%)		1510-28				\$ 1,132.79
			Drill Stem Test		1510-37				\$ -
			Mud Logging		1510-43				\$ -
			Surface Casing		1560-1				\$ 4,355.00
			Well Head & Slips		1550-8				\$ -
			P&A		1510-22				\$ -
			Total Length	0.00					\$ -
			Effective Bit Weight						\$ 14,863.54
			DC Size						\$ 98,239.36
			DP Weight						\$ -
			DP Connection						\$ -
			DC Weight						\$ -
			DC Grade						\$ -
			DC Connection						\$ -
			Buoyancy Wt.						\$ -

Mud Properties  
 MW Vis PV YP 10 sec 10 min cc. HTHP 32nd Solids % Sand pH ES PI Pm Ca CI % OIL OWR  
 9.5 30  
 Shaker Screen Size: Date Last BOP Drill: Date Last BOP Test:

Bit Record

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Location	Brng. Seal	Gage 1/16	Other	Reas. Pulled	
1	12.25	JZ	Rock		15	15	15	0		0											
2	7.875	JZ	HA20Q		13	14	13	268		-268		0									

Pump Data

Pump No.	Model	Stroke Length	Liner Size	Gal. Stk. 95% Eff.	SPM	GRM	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	56	312.53	1000	51.03	51.03		
No. 2		0	0	0.00		0.00					

Surveys  
 Depth: 268 Deviation: 0.25 Depth: 1293 Deviation: 0.75 Depth: 2267 Deviation: 0.75  
 Mud Logger

BG Gas: 0 Conn. Gas: 0 Trip Gas: 0 Remarks:



**DAILY DRILLING REPORT**

Date: 9/12/2014 Operator: South Logan New Gulf Operating Well Name: Marius # 1  
 Field or Prospect: South Logan County: Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 3535.00 Footage: 405.00 Rot. Hrs.: 20.5 Avg. ROP: 19.76 Phone No.: 620.617.2868  
 Present Operation: Drilling Ahead @ 3540'

Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: N/A KB to GL: 0  
 Spud Date: 8/28/2014 Days from Spud: 5 Consultant: Jim Henkie  
 Breakdown of Operations

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	64.5
0630	0830	2	Drig 3130-3177'					
0830	0900	0.5	Rig Check					
0900	1545	6.75	Drig 3177-3302'					
1545	1600	0.25	Rig Check					
1600	1800	2	Drig 3302-3334'					
1800	1830	0.5	Jet # 2 for Displace					
1830	0130	7	Drig 3334-3460'					
0130	0230	1	Jet # 1 & Cellar & Displace Complete @ 3460'					
0230	0245	0.25	Rig Check					
0245	0345	1	Work on pump					
0345	0630	2.75	Drig 3460-3535'					
0630								

Driving Directions:

Total hrs	Diesel Used:	Diesel on Hand:
24.0	0	

Qty	OD	ID	Description	Length	code	Before Casing Point	Drilling Cost	Before Csg. Point (Y/N)	Cumulative
			Roads & Location		1510-2				\$ 4,500.00
			Rig Mobilization		1510-4				\$ 8,000.00
			Contractor: Day Work		1510-5				\$ 8,600.00
			Contractor: Footage		1510-6				\$ 6,480.00
			Water		1510-8				\$ 2,800.00
			Fuel		1510-8				\$ -
			Mud / Diesel / Mineral Oil		1510-9				\$ 1,873.60
			Bits		1510-10				\$ -
			Equipment Rentals		1510-12				\$ 250.00
			Logging		1510-13				\$ -
			Cmt Serv./Cents, Float Equip.		1510-14				\$ 4,526.00
			Transportation		1510-16				\$ -
			Supervision		1510-18				\$ 400.00
			Casing Crew / Fillup Tool / LDM		1510-27				\$ -
			Misc. Services / Rentals		1510-28				\$ -
			Contingency (8.25%)		1510-28				\$ 858.30
			Drill Stem Test		1510-37				\$ -
			Mud Logging		1510-43				\$ -
			Surface Casing		1550-1				\$ 4,355.00
			Well Head & Slips		1550-8				\$ -
			P&A		1510-22				\$ -
			Total Length	0.00					\$ -

Effective Bit Weight:	DP Weight	DP Grade	DP Connection	DC Size	DC Weight	DC Grade	DC Connection	Buoyancy Wt.
0				0				109,501.26

MW	Vis	PV	YP	Gals	10 min	cc	HTHP	Wtr. Loss	Cake	% Solids	% Sand	pH	ES	AK	Pm	Ca	Cl	% OIL	OWR	
8.6	47																			

Shaker Screen Size: Date Last BOP Drill: Date Last BOP Test:

Bit No.	Size (in)	M/Kg	Type	Serial No.	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Location	Brng. Seal	Gage 1/16	Other	Reas. Pulled
1	12.25	JZ	Rock		15	15	0	0		0										
2	7.875	JZ	HA20Q		13	14	13	268		-268										

Pump No.	Model	Stroke Length	Liner Size	Gal./Stk. 95% Eff.	SPM	GPW	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	60	334.86	1000	54.67	54.67		
No. 2		0	0	0.00		0.00					

Depth:	268	Deviation:	0.25	Depth:	1263	Deviation:	0.75	Depth:	2267	Deviation:	0.75
Surveys											

BG Gas: 0 Conn. Gas: 0 Trip Gas: 0 Remarks:



Date: 9/2/2014 Operator: South Logan New Gulf Operating Well Name: Martus # 1  
 Field or Prospect: South Logan County: Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 3950.00 Footage: 415.00 Rot. Hrs.: 17.5 Avg. ROP: 23.71 Phone No.: 620.617.2868  
 Present Operation: CFS @ 3950'

Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: N/A KB to GL: 0  
 Spud Date: 8/28/2014 Days from Spud: 6 Consultant: Jim Henkle

Breakdown of Operations  
 From To Hrs Repair Hrs. for day: 0 Repair Hrs. for month: 0 BHA Hours: 102.0

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	102.0
0630	0900	2.5	Drig 3535-3585'					
0900	0930	0.5	Rig Check & Clean Screen					
0930	1030	1	Drig 3585-3616'					
1030	1045	0.25	Run Wireline Survey .25 Deg.					
1045	1445	4	Drig 3616-3710'					
1445	1500	0.25	Rig Check					
1500	1800	3	Drig 3710-3800'					
1800	1900	1	CFS @ 3800'					
1900	2200	3	TOH w bit Wiper Trip					
2200	2300	1	CTCH					
2300	0145	2.75	Drig 3800-3867'					
0145	0200	0.25	Pick up pit mud					
0200	0615	4.25	Drig 3867-3950'					
0615	0630	0.25	CFS @ 3950'					
0630								

Driving Directions:  
 Total hrs 24.0 Diesel Used: 0 Diesel on Hand:

Qty	OD	ID	Description	Length	code	Before Casing Point	Before Cag. Point (Y/N)	Y
			Roads & Location		1510-2			\$ 4,500.00
			Rig Mobilization		1510-4			\$ 8,000.00
			Contractor: Day Work		1510-5			\$ 1,200.00
			Contractor: Footage		1510-6			\$ 6,640.00
			Water		1510-8			\$ 61,760.00
			Fuel		1510-8			\$ 2,800.00
			Mud / Diesel / Mineral Oil		1510-9			\$ 1,430.70
			Bits		1510-10			\$ 250.00
			Equipment Rentals		1510-12			\$ 1,500.00
			Logging		1510-13			\$ 4,526.00
			Cmt Serv/Cents, Float Equip.		1510-14			\$ 4,526.00
			Transportation		1510-16			\$ 400.00
			Supervision		1510-18			\$ 2,400.00
			Casing Crew / Fillup Tool / LDM		1510-27			\$ 400.00
			Misc. Services / Rentals		1510-28			\$ 933.96
			Contingency (8.25%)		1510-28			\$ 9,279.32
			Drill Stem Test		1510-37			\$ 4,355.00
			Mud Logging		1510-43			\$ 4,355.00
			Surface Casing		1550-1			\$ 4,355.00
			Well Head & Slips		1550-8			\$ 4,355.00
			P&A		1510-22			\$ 4,355.00
			Total Length	0.00				\$ 121,755.92

Effective Bit Weight: DP Weight: DP Grade: DP Connection: DC Size: DC Weight: DC Grade: DC Connection: Buoyancy Wt.  
 0 0 0 0 0 0 0 0

MW	Vls	PV	YP	Gels		Wtr. Loss	Cake	% Solids	% Sand	pH	Alk	Ca	Cl	% OIL	OWR
				10 sec	10 min	cc.	HTRP	32nd		ES	Pm	Ca	Cl		
8.9	50	17	18			8	1	4.5	9.5			80	4000		

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Dull	Reas. Pulled
1	12.25	JZ	Rock		15	15	0	0	0										
2	7.875	JZ	HA20Q		13	14	13	3535	3950	415	17.5	23.714	36	70					

Pump No.	Model	Stroke Length	Liner Size	Gal./Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	60	334.86	1000	54.67	54.67		
No. 2		0	0	0.00		0.00					

Depth:	268	Deviation:	0.25	Depth:	3616	Deviation:	0.25
Depth:	1263	Deviation:	0.75	Depth:		Deviation:	
Depth:	2267	Deviation:	0.75	Depth:		Deviation:	

BG Gas: 0 Conn. Gas: 0 Trip Gas: 0 Mud Logger: 0 Remarks:



**New Gulf Operating, LLC**  
 6310 East 102nd Street  
 Tulsa, OK 74137  
 Phone: 918-728-3020 Fax: 918-728-3194

**DAILY DRILLING REPORT**

Date: 9/3/2014 Operator: New Gulf Operating Well Name: Martius # 1  
 Field or Prospect: South Logan County: Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 4310.00 Footage: 360.00 Rot. Hrs.: 19.0 Avg. ROP: 18.95 Phone No.: 620.617.2868  
 Present Operation: TOH # DST # 1

Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: N/A KB to GI.: 0  
 Spud Date: 8/28/2014 Days from Spud: 7 Consultant: Jim Henkle  
 Breakdown of Operations Repair Hrs. for month: 121.0

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	121.0
0630	0715	0.75	CFS @ 3950'					
0715	0900	1.75	DtHg 3950-3991'					
0900	0930	0.5	Rig Check					
0930	1015	0.75	DtHg 3991-4006'					
1015	1115	1	CFS @ 4006'					
1115	1315	2	DtHg 4006-4048'					
1315	1415	1	CFS @ 4048'					
1415	1430	0.25	DtHg 4048-4054'					
1430	1445	0.25	Rig Check					
1445	2000	5.25	DtHg 4054-4150'					
2000	2100	1	CFS @ 4150'					
2100	2445	3.75	DtHg 4150-4210'					
2445	0100	0.25	Rig Check					
0100	0445	3.75	DtHg 4210-4284'					
0445	0500	0.25	Work on Pump					
0500	0630	1.5	DtHg 4284-4310'					
0630								

Driving Directions:  
 Total hrs 24.0 Diesel Used: 0 Diesel on Hand:

Qty	OD	ID	Description	Length	code	Before Casing Point	Before Cag. Point (VNI)	Cumulative
			Roads & Location		1510-2			\$ 4,500.00
			Rig Mobilization		1510-4			\$ 8,000.00
			Contractor: Day Work		1510-6			\$ 13,200.00
			Contractor: Footage		1510-8			\$ 67,520.00
			Water		1510-8			\$ 2,800.00
			Fuel		1510-9			\$ -
			Mud / Diesel / Mineral Oil		1510-10			\$ 14,246.35
			Bits		1510-10			\$ -
			Equipment Rentals		1510-13			\$ 250.00
			Logging		1510-14			\$ 1,750.00
			Cnt Serv/Cents, Float Equip.		1510-16			\$ 4,526.00
			Supervision		1510-18			\$ 2,800.00
			Casing Crew / Fillup Tool / LDM		1510-27			\$ -
			Misc. Services / Rentals		1510-28			\$ -
			Contingency (8.25%)		1510-28			\$ 10,205.03
			Drill Stem Test		1510-37			\$ -
			Mud Logging		1510-43			\$ -
			Surface Casing		1550-1			\$ 4,355.00
			Well Head & Slips		1550-8			\$ -
			P&A		1510-22			\$ -
			Total Length	0.00				\$ -
			Total Costs					\$ 12,146.46
			DC Size					\$ 133,902.38
			DC Weight					\$ -
			DC Grade					\$ -
			DC Connection					\$ -
			Buoyancy Wt.					\$ -

MW	Vls	PV	YP	Gals	Wtr. Loss	Cake	% Solids	% Sand	pH	Alk	Ca	Cl	% OIL	OWR
				10 sec	10 min	cc.	HTHP	32nd						
Mud Properties														
Date Last BOP Drill:														
Date Last BOP Test:														

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Dull	Reas. Piled	
1	12.25	JZ	Rock		15	15	0	0	0												
2	7.875	JZ	HA20Q		13	14	13	3950	4310	360	19	18.947						36	70		

Pump No.	Model	Stroke Length	Liner Size	Gal. / Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.88	60	334.86	1000	54.67	54.67		
No. 2		0	0	0.00		0.00					

Depth:	268	Deviation:	0.25	Depth:	3616	Deviation:	0.25
Depth:	1263	Deviation:	0.75	Depth:		Deviation:	
Depth:	2267	Deviation:	0.75	Depth:		Deviation:	

BG Gas: 0 Conn. Gas: 0 Trip Gas: 0 Mud Logger: 0 Remarks:



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**DAILY DRILLING REPORT**

Date:	9/4/2014	Operator:	New Gulf Operating	Well Name:	Marius # 1
Field or Prospect:	South Logan	County:	Logan	Contractor & Rig No.:	Vai Rig # 4
Pres Depth:	4378.00	Footage:	68.00	Rot. Hrs.:	6.0
Present Operation:		Avg. ROP:	11.33	Phone No.:	620.617.2868
Last Casing (Size & Depth):		CFS @ 4378' Fixing to do DST # 2			
Spud Date:	8/28/2014	8 5/8 Set @ 264'	Shoe Test:	N/A	KB to GL: 9'
		Days from Spud:	8	Consultant:	Jim Henke

From		To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	127.0
0630	0745	1.25	Drig 4310-4326'						
0745	0845	1	CFS @ 4326'						
0845	1030	1.75	Short Trip (20 Stands)						
1030	1130	1	CTCH						
1130	1145	0.25	Drop Survey 1 Deg.						
1145	1415	2.5	TOH f/ DST # 1 (Strapped Out) Strap .84 Short						
1415	1445	0.5	Pick up make up test tool						
1445	1630	1.75	TH w/ test tool & pick up test stands						
1630	1930	3	Testing						
1930	2145	2.25	TOH w Test tool & Dump fluid						
2145	2230	0.75	Break and lay tool down						
2230	2245	0.25	Rig Check						
2245	2445	2	TH w/ bit						
2445	0145	1	CTCH						
0145	0630	4.75	Drig 4326-4378'						
0630									

<b>Driving Directions:</b>	
<b>Total hrs</b>	<b>24.0</b>
<b>Diesel Used:</b>	<b>0</b>
<b>Diesel on Hand:</b>	

Qty	OD	ID	Description	Length	code	Before Casing Point	Before Csg. Point (Y/N)	Y
			Roads & Location		1510-2			
			Rig Mobilization		1510-4			\$ 4,500.00
			Contractor: Day Work		1510-5			\$ 8,000.00
			Contractor: Footage		1510-6			\$ 7,200.00
			Water		1510-8			\$ 1,088.00
			Fuel		1510-8			\$ 2,800.00
			Mud / Diesel / Mineral Oil		1510-9			\$ (594.85)
			Bits		1510-10			\$ 250.00
			Equipment Rentals		1510-12			\$ 2,000.00
			Logging		1510-13			\$ -
			Cmt Serv./Cents, Float Equip.		1510-14			\$ 4,526.00
			Transportation		1510-16			\$ -
			Supervision		1510-18			\$ 400.00
			Casing Crew / Fillup Tool / LDM		1510-27			\$ -
			Misc. Services / Rentals		1510-28			\$ -
			Contingency (8.25%)		1510-28			\$ 889.81
			Drill Stem Test		1510-37			\$ 2,200.00
			Mud Logging		1510-43			\$ -
			Surface Casing		1550-1			\$ 4,355.00
			Well Head & Slips		1550-4			\$ -
			P&A		1510-22			\$ -
			<b>Total Length</b>	<b>0.00</b>				\$ -
			<b>Effective Bit Weight:</b>					\$ 11,412.96
			<b>DC Size</b>					\$ 145,315.34
			<b>DP Weight</b>					\$ -
			<b>DP Connection</b>					\$ -
			<b>DC Grade</b>					\$ -
			<b>DC Weight</b>					\$ -
			<b>DC Grade</b>					\$ -
			<b>DC Connection</b>					\$ -
			<b>Buoyancy Wt.</b>					\$ -

MW	Vls	PV	YP	Gals	Wtr. Loss	Cake	% Solids	% Sand	pH	Alk	Ca	Cl	% OIL	OWR
				10 sec	10 min	cc.	HTHP	32nd						
9.1	54	17	18			8.3	1	10			70	4500		

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other	Reas. Pulled	
1	12.25	JZ	Rock		15	15	0	0	0												
2	7.875	JZ	HA20Q		13	14	13	4310	4378	68	6	11,333	36	64							

Pump No.	Model	Stroke Length	Liner Size	Gal. / Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	60	334.86	950	54.67	54.67		
No. 2		0	0	0.00		0.00					

Depth:	268	Deviation:	0.25	Depth:	3616	Deviation:	0.25
Depth:	1263	Deviation:	0.75	Depth:	4310	Deviation:	1
Depth:	2267	Deviation:	0.75	Depth:		Deviation:	

BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:	
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**DAILY DRILLING REPORT**

Date: 9/6/2014	Operator: South Logan	New Gulf Operating	Well Name: Marius # 1
Field or Prospect: 4565.00	Footage: 97.00	County: Logan	Contractor & Rig No.: Val Rig # 4
Present Operator:	Rot. Hrs.: 9.5	Avg. ROP: 10.21	Phone No.: 620.617.2868
Last Casing (Size & Depth):	8 5/8 Set @ 264'	Shoe Test: N/A	KB to GL: 9'
Spud Date: 8/28/2014	Days from Spud: 10	Consultant: Jim Henkle	

Breakdown of Operations		Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	144.3
From	To	Hrs	Description				
0630	0800	1.5	TOH # DST # 3				
0800	0845	0.75	Pick up make up test tool				
0845	1015	1.5	TIH w/ tool				
1015	1245	2.5	Testing				
1245	1445	2	TOH w/ test tool & Dump fluid				
1445	1515	0.5	Break and lay down tool				
1515	1530	0.25	Rig Check				
1530	1715	1.75	TIH w/ bit				
1715	1815	1	CTCH				
1815	1900	0.75	Rig Repairs				
1900	2230	3.5	Drlg 4468-4502'				
2230	2300	0.5	CFS @ 4502'				
2300	0100	2	Drlg 4502-4523'				
0100	0130	0.5	Rig Check				
0130	0400	2.5	Drlg 4523-4552'				
0400	0500	1	CFS @ 4552'				
0500	0630	1.5	Drlg 4552-4565'				
0630							
Driving Directions:							

Bottomhole Assembly		Drilling Cost		Before Casing Point (Y/N)			
Qty	OD ID	Description	Length	code	Before Casing Point	Daily	Cumulative
				1510-2	Roads & Location		\$ 4,500.00
				1510-4	Rig Mobilization		\$ 8,000.00
				1510-5	Contractor: Day Work		\$ 5,800.00
				1510-6	Contractor: Footage		\$ 1,552.00
				1510-8	Water		\$ 2,800.00
				1510-9	Fuel		\$ -
				1510-9	Mud / Diesel / Mineral Oil		\$ 2,293.90
				1510-10	Bits		\$ -
				1510-12	Equipment Rentals		\$ 250.00
				1510-13	Logging		\$ -
				1510-14	Cmt Serv/Cents, Float Equip.		\$ 4,526.00
				1510-16	Transportation		\$ -
				1510-18	Supervision		\$ 400.00
				1510-27	Casing Crew / Fillup Tool / LDM		\$ -
				1510-28	Misc. Services / Rentals		\$ -
				1510-28	Contingency (8.25%)		\$ 1,030.91
				1510-37	Drill Stem Test		\$ 2,200.00
				1510-43	Mud Logging		\$ -
				1550-1	Surface Casing		\$ 4,355.00
				1550-4	Well Head & Slips		\$ -
				1510-22	P&A		\$ -
					Total Length	0.00	\$ -
					Total Costs		\$ 13,526.81
					DC Size		\$ 171,245.01
					DC Weight		
					DC Grade		
					DC Connection		
					Buoyancy Wt.		

Mud Properties		Mud Loss		Cake		Solids		pH		Alk		Ca		Cl		% OIL		OWR	
MM	V/S	PV	YP	10 sec	10 min	cc.	HTHP	32nd	% Solids	% Sand	ES	PI	Pm	Ca	Cl	% OIL	OWR		
9.1	55	16	19			8.8		1						40					
Shaker Screen Size:																			
Date Last BOP Drill:																			
Date Last BOP Test:																			

Bit Record		Date Last BOP Drill:		Date Last BOP Test:																		
Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Dull	Reas. Pulled	
1	12.25	JZ	Rock		15	15	15	0	0	0												
2	7.875	JZ	HA20Q		13	14	13	468	455	97	9.5	10,211	36									

Pump Data		Gal. / Stk. 95% Eff.		SPM		GPM		Pressure psi		Annular Velocity		Kill Rate	
No.	Model	Stroke Length	Liner Size	95% Eff.	SPM	GPM	Pressure psi	DP	Annular Velocity	DC's	SPM	Kill Rate	Pres.
No. 1	K-500	16	6	5.58	60	334.86	950	54.67	54.67				
No. 2		0	0	0.00		0.00							

Surveys		Depth:		Deviation:			
Depth:	268	Deviation:	0.25	Depth:	3616	Deviation:	0.25
Depth:	1263	Deviation:	0.75	Depth:	4310	Deviation:	1
Depth:	2267	Deviation:	0.75	Depth:		Deviation:	

BG Gas:	0	Conn. Gas:	0	Trip Gas:	0	Remarks:	
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**DAILY DRILLING REPORT**

Date: 9/7/2014 Operator: South Logan New Gulf Operating Well Name: Martus # 1  
 Field or Prospect: South Logan County: Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 4665.00 Footage: 100.00 Rot. Hrs.: 7.5 Avg. ROP: 13.33 Phone No.: 620.617.2868  
 Present Operation: Drilling Ahead @ 4695'

Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: 11 Consultant: N/A KB to GL: 9'  
 Spud Date: 8/28/2014 Days from Spud: 11 Breakdown of Operations  
 From To Hrs Repair Hrs. for day: 0 Repair Hrs. for month: 0 BHA Hours: 151.8

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	151.8
0630	0800	1.5	Drig 4565-4586'					
0800	0830	0.5	Rig Check					
0830	0845	0.25	Jel Pit # 1					
0845	1200	3.25	Drig 4586-4638'					
1200	1300	1	CFS @ 4638'					
1300	1530	2.5	TOH f/ DST # 4					
1530	1600	0.5	Pick up make up test tool					
1600	1615	0.25	Rig Check					
1615	1745	1.5	TIH w/ test tool					
1745	2045	3	Testing					
2045	2300	2.25	TOH w/ test tool & dump fluid					
2300	2345	0.75	Break & lay down tool					
2345	0215	2.5	TIH w/ bit					
0215	0300	0.75	WOP					
0300	0330	0.5	CTCH					
0330	0445	1.25	Drig 4638-4648'					
0445	0500	0.25	WOP					
0500	0630	1.5	Drig 4648-4665'					
0630								

**Driving Directions:**

Total hrs 24.0 Diesel Used: 0 Diesel on Hand: 0

Qty	OD	ID	Description	Length	code	Before Casing Point	Before Csg. Point (Y/N)	Cumulative
			1510-2		Roads & Location		Daily	
			1510-4		Rig Mobilization			4,500.00
			1510-5		Contractor: Day Work			8,000.00
			1510-6		Contractor: Footage			6,600.00
			1510-8		Water			1,600.00
			1510-8		Fuel			2,800.00
			1510-9		Mud / Diesel / Mineral Oil			963.10
			1510-10		Bits			250.00
			1510-12		Equipment Rentals			2,750.00
			1510-13		Logging			4,526.00
			1510-14		Cmt Serv./Cants. Float Equip.			4,000.00
			1510-16		Transportation			4,400.00
			1510-18		Supervision			400.00
			1510-27		Casing Crew / Fillup Tool / LDM			4,000.00
			1510-28		Misc. Services / Rentals			991.08
			1510-28		Contingency (8.25%)			2,200.00
			1510-37		Drill Stem Test			2,200.00
			1510-43		Mud Logging			8,800.00
			1550-1		Surface Casing			4,355.00
			1550-4		Well Head & Slips			4,355.00
			1510-22		P&A			13,004.18
					Total Length			0.00
					Total Costs			13,004.18
					DC Size			184,249.19
					DC Weight			
					DC Grade			
					DC Connection			
					DP Size			
					DP Weight			
					DP Grade			
					DP Connection			
					Effective Bit Weight:			
					DP Weight			
					DP Grade			
					DP Connection			

MW	Vls	PV	VP	Gels	Wtr. Loss	Cake	% Solids	% Sand	pH	Alk	Ca	Cl	% Oil	OWR
9.1	58	16	19	10 sec	10 min	cc.	HTHP	32nd						
						8.9		1			40	7300		

Shaker Screen Size: Date Last BOP Drill: Date Last BOP Test:

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other	Reas.	
1	12.25	JZ	Rock		15	15	0	0	0											
2	7.875	JZ	HA20Q		13	14	13	4565	4665	100	7.5	13.333	36	65						

**Pump Data**

No.	Model	Stroke Length	Liner Size	Gal. /Stk. 95% Eff.	SPM	GPW	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-500	16	6	5.58	0.00	0.00		0.00	0.00		
No. 2		0	0	0.00	0.00	0.00					

**Surveys**

Depth:	268	Deviation:	0.25	Depth:	3616	Deviation:	0.25
Depth:	1263	Deviation:	0.75	Depth:	4310	Deviation:	1
Depth:	2267	Deviation:	0.75	Depth:		Deviation:	

BG Gas: 0 Conn. Gas: 0 Trip Gas: 0 Mud Logger: Remarks:



**DAILY DRILLING REPORT**

Date: 9/8/2014 Operator: South Logan New Gulf Operating Well Name: Martus # 1  
 Field or Prospect: South Logan County: Logan Contractor & Rig No.: Val Rig # 4  
 Pres Depth: 4765.00 Footage: 100.00 Rot. Hrs.: 9.0 Avg. ROP: 11.11 Phone No.: 620.617.2868  
 Present Operation: Lay down drill collars  
 Last Casing (Size & Depth): 8 5/8 Set @ 264' Shoe Test: N/A KB to GL: 9'  
 Spud Date: 8/28/2014 Days from Spud: 12 Consultant: Jim Henkle

**Breakdown of Operations**

From	To	Hrs	Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	160.8
0630	0800	1.5	Drlg 4665-4680'					
0800	0830	0.5	Rig Check					
0830	1600	7.5	Drlg 4680-4765'					
1600	1730	1.5	CFS @ 4765'					
1730	1945	2.25	Drop Survey .25 Deg. TOH if logs					
1945	0100	5.25	Logging					
0100	0330	2.5	TIH w/ bit					
0330	0500	1.5	CTCH					
0500	0630	1.5	TOH laying down pipe					
0630								

**Driving Directions:**

Total hrs	24.0	Diesel Used:	0	Diesel on Hand:	0
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Qty	OD	ID	Description	Length	code	Drilling Cost		Before Csg. Point (VN)	Y				
						Daily	Cumulative						
			Bottomhole Assembly										
			1510-2		Roads & Location			\$ 4,500.00					
			1510-4		Rig Mobilization			\$ 8,000.00					
			1510-5		Contractor: Day Work			\$ 6,000.00	\$ 45,300.00				
			1510-6		Contractor: Footage			\$ 1,600.00	\$ 74,800.00				
			1510-8		Water			\$ -	\$ 2,800.00				
			1510-8		Fuel			\$ -	\$ -				
			1510-9		Mud / Diesel / Mineral Oil			\$ -	\$ 17,576.10				
			1510-10		Bits			\$ -	\$ -				
			1510-12		Equipment Rentals			\$ 250.00	\$ 3,000.00				
			1510-13		Logging			\$ 7,800.00	\$ 7,800.00				
			1510-14		Cmt Serv./Cents. Float Equip.			\$ -	\$ 4,528.00				
			1510-16		Transportation			\$ -	\$ -				
			1510-18		Supervision			\$ 400.00	\$ 4,800.00				
			1510-27		Casing Crew / Fillup Tool / LDM			\$ -	\$ -				
			1510-28		Misc. Services / Rentals			\$ -	\$ -				
			1510-28		Contingency (8.25%)			\$ 1,324.13	\$ 15,366.21				
			1510-37		Drill Stem Test			\$ -	\$ 8,800.00				
			1510-43		Mud Logging			\$ -	\$ -				
			1550-1		Surface Casing			\$ -	\$ 4,355.00				
			1550-8		Well Head & Slips			\$ -	\$ -				
			1510-22		P&A			\$ -	\$ -				
					Total Length			\$ 0.00	\$ -				
					Total Costs			\$ 17,374.13	\$ 201,623.31				
					Effective Bit Weight:								
					DP Size	DP Weight	DP Grade	DC Size	DC Weight	DC Grade	DC Connection	DC Connection	Buoyancy Wt.
					0			0					

**Mud Properties**

MW	Vls	PV	YP	Gels	Wtr. Loss	Chk	% Solids	% Sand	pH	ES	PI	Pm	Ca	CI	% OIL	DWR
9.1	56	14	22	10 sec	10 min	cc.	HTRP	32nd		10			60	7000		

**Bit Record**

Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Depth Out	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other Dull	Reas. Pulled	
1	12.25	JZ	Rock		15	15	15	0	0	0											
2	7.875	JZ	HA20Q		13	14	13	4665	4765	100	9	11,111	35	65							

**Pump Data**

Pump No.	Model	Stroke Length	Liner Size	Gal. / Shk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.
No. 1	K-800	16	6	5.58	60	334.86	1000	54.67	54.67		
No. 2		0	0	0.00		0.00					

**Surveys**

Depth:	288	Deviation:	0.25	Depth:	3616	Deviation:	0.25
Depth:	1263	Deviation:	0.75	Depth:	4310	Deviation:	1
Depth:	2267	Deviation:	0.75	Depth:	4765	Deviation:	0.25

BG Gas: 0 Conn. Gas: 0 Trip Gas: 0 Mud Logger: 0 Remarks:



Date:	9/9/2014	Operator:	South Logan	New Gulf Operating	Well Name:	Marius # 1	
Field or Prospect:	4765.00	Footage:	0.00	Rot. Hrs.:	Logan	Contractor & Rig No.:	Val Rig # 4
Present Operation:					Avg. ROP:		620.617.2868
Last Casing (Size & Depth):		8 5/8 Set @ 264'		Shoe Test:		KB to GI:	9'
Spud Date:		8/28/2014	Days from Spud:	13	Consultant:	Jim Henkle	

Breakdown of Operations		Repair Hrs. for day:	0	Repair Hrs. for month:	0	BHA Hours:	160.8
0630	0930	3	Lay down pipe & Drill collars				
0930	1015	0.75	Cellar Work				
1015	1100	0.75	Rig up casing crew				
1100	1245	1.75	Run 5 1/2 casing				
1245	1345	1	Rig up & Circulate				
1345	1430	0.75	Cement bottom stage				
1430	1730	3	Wait on cement				
1730	1845	1.25	Cement top stage				
1845	2245	4	Set slips & rig down				
2245							

Run 110 jls. New J-55 API 5.5 15.5# Tally 4763' Set @ 4761'  
 DV Tool Set @ 2451' Marker Jt. @ 4245'  
 Cement bottom stage w/ 200sx. OWC  
 Cement top stage w/ 425 sx. 60/40 Poz 8% Gal 1/4# Floseal  
 Cement DID Circulate  
 Consolidated Cementing Ticket # 47684  
 DV Tool SR# 2019527

<b>Total hrs</b>	<b>16.3</b>	<b>Diesel Used:</b>	<b>0</b>	<b>Diesel on Hand:</b>	
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Qty	OD	ID	Description	Length	code	Drilling Cost		Before Csg. Point (Y/N)	Y
						Before Casing Point	Daily		
			Roads & Location		1510-2				\$ 4,500.00
			Rig Mobilization		1510-4				\$ 8,000.00
			Contractor: Day Work		1510-5				\$ 6,500.00
			Contractor: Footage		1510-6				\$ 51,800.00
			Water		1510-8				\$ 74,800.00
			Fuel		1510-8				\$ 2,800.00
			Mud / Diesel / Mineral Oil		1510-9				\$ 17,576.10
			Bits		1510-10				\$ -
			Equipment Rentals		1510-12				\$ 250.00
			Logging		1510-13				\$ 7,800.00
			Cmt Serv./Cents, Float Equip.		1510-14				\$ 22,174.02
			Transportation		1510-16				\$ -
			Supervision		1510-18				\$ 400.00
			Casing Crew / Fillup Tool / LDM		1510-27				\$ 4,100.00
			Misc. Services / Rentals		1510-28				\$ 4,100.00
			Contingency (8.25%)		1510-28				\$ 6,444.94
			Drill Stem Test		1510-37				\$ 43,581.45
			Mud Logging		1510-43				\$ 1,115.00
			Long String		1550-1				\$ 47,936.45
			Well Head & Slips		1550-8				\$ 1,115.00
			P&A		1510-22				\$ -
			<b>Total Length</b>	<b>0.00</b>					\$ -
			<b>Total Costs</b>						\$ 84,565.41
			<b>DC Size</b>						\$ 286,188.72
			<b>DC Weight</b>						\$ -
			<b>DC Grade</b>						\$ -
			<b>DC Connection</b>						\$ -
			<b>Buoyancy Wt.</b>						\$ -

<b>Effective Bit Weight:</b>		<b>DP Weight:</b>		<b>DP Grade:</b>		<b>DP Connection:</b>		<b>DC Size:</b>		<b>DC Weight:</b>		<b>DC Grade:</b>		<b>DC Connection:</b>	
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Mud Properties																					
MW	Vls	PV	YP	Gels	10 min	10 sec	Wtr. Loss	cc.	HTHP	32nd	Cake	% Solids	% Sand	pH	ES	Alk	Pm	Ca	Cl	% OIL	OWR

<b>Shaker Screen Size:</b>		<b>Date Last BOP Drill:</b>		<b>Date Last BOP Test:</b>	
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Bit Record																			
Bit No.	Size (in)	Mfg	Type	Serial No.	Jets /32	Depth In	Footage (ft)	Hrs	FPH	WOB 1000 lbs	RPM	Inner Row	Outer Row	Dull Char.	Locatio n	Brng. Seal	Gage 1/16	Other	Reas.

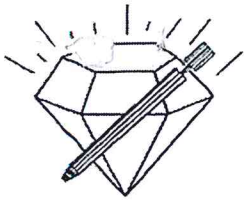
Pump Data											
Pump No.	Model	Stroke Length	Liner Size	Gal./Stk. 95% Eff.	SPM	GPM	Pressure psi	Annular Velocity DP	DC's	SPM	Kill Rate Pres.

No. 1	K-500	16	6	5.58	0.00	0.00	0.00	0.00	0.00		
No. 2		0	0	0.00	0.00	0.00	0.00	0.00	0.00		

Surveys											
Depth:	268	Deviation:	0.25	Depth:	3616	Deviation:	0.25	Depth:		Deviation:	
Depth:	1263	Deviation:	0.75	Depth:	4310	Deviation:	1	Depth:		Deviation:	
Depth:	2267	Deviation:	0.75	Depth:	4765	Deviation:	0.25	Depth:		Deviation:	

<b>BG Gas:</b>	0	<b>Conn. Gas:</b>	0	<b>Trip Gas:</b>	0	<b>Remarks:</b>	
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**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
MARIUS1-15DST1

Company New Gulf Operating, LLC Lease & Well No. Marius No. 1-15  
Elevation 3038 KB Formation Altamont "A" Effective Pay      Ft. Ticket No. T389  
Date 9-3-14 Sec. 15 Twp. 14S Range 34W County Logan State Kansas  
Test Approved By John Goldsmith Diamond Representative Tim Venters

Formation Test No. 1 Interval Tested from 4,262 ft. to 4,326 ft. Total Depth 4,326 ft.  
Packer Depth 4,257 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Packer Depth 4,262 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,243 ft. Recorder Number 8457 Cap. 10,000 psi.  
Bottom Recorder Depth (Outside) 4,323 ft. Recorder Number 11030 Cap. 5,025 psi.  
Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi.

Drilling Contractor Val Energy, Inc. - Rig 4 Drill Collar Length 58 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 59 Weight Pipe Length      ft I.D.      in.  
Weight 9.1 Water Loss 8.8 cc. Drill Pipe Length 4,171 ft I.D. 3 1/2 in.  
Chlorides 5,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 2 Anchor Length 33' perf. w/31' drill pipe Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, 1/2 in. blow increasing. Off bottom of bucket in 9 1/2 mins. Weak, 1 in. blow back during shut-in.  
2nd Open: Weak, 1/4 in. blow increasing. Off bottom of bucket in 12 1/2 mins. Weak, surface blow back during shut-in.

Recovered 405 ft. of clean oil = 5.763150 bbls. (Grind out: 100%-oil) Gravity: 32 @ 60°  
Recovered 15 ft. of muddy, slightly water cut oil = .213450 bbls. (Grind out: 61%-oil; 7%-water; 32%-mud)  
Recovered 250 ft. of slightly oil & water cut mud = 3.557500 bbls. (Grind out: 24%-oil; 12%-water; 64%-mud)  
Recovered 120 ft. of gassy, slightly oil & mud cut water = 1.167620 bbls. (Grind out: 4%-gas; 6%-oil; 62%-water; 28%-mud)  
Recovered 790 ft. of TOTAL FLUID = 10.701720 bbls. Chlorides: 29,000 Ppm PH: 7.5 RW: .25 @ 70°

Recovered      ft. of       
Remarks Tool Sample Grind Out: 37%-oil; 30%-water; 33%-mud

Time Set Packer(s) 4:29 P.M. Time Started off Bottom 7:29 P.M. Maximum Temperature 121°  
Initial Hydrostatic Pressure.....(A) 2007 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 46 P.S.I. to (C) 172 P.S.I.  
Initial Closed In Period.....Minutes 45 (D) 1291 P.S.I.  
Final Flow Period.....Minutes 45 (E) 181 P.S.I. to (F) 327 P.S.I.  
Final Closed In Period.....Minutes 60 (G) 1258 P.S.I.  
Final Hydrostatic Pressure.....(H) 2004 P.S.I.



# DIAMOND TESTING

## General Information Report

### General Information

**Company Name** NEW GULF OPERATING, LLC  
**Contact** JIM HENKLE  
**Well Name** MARIUS #1-15  
**Unique Well ID** DST #1, ALTAMONT "A", 4262-4326  
**Surface Location** SEC 15-14S-34W, LOGAN CO. KS.  
**Field** WILDCAT  
**Well Type** Vertical  
**Test Type** CONVENTIONAL  
**Formation** DST #1, ALTAMONT "A", 4262-4326  
**Well Fluid Type** 01 Oil

**Representative** TIM VENTERS  
**Well Operator** NEW GULF OPERATING, LLC  
**Report Date** 2014/09/03  
**Prepared By** TIM VENTERS  
  
**Qualified By** JOHN GOLDSMITH

**Start Test Date** 2014/09/03  
**Final Test Date** 2014/09/03

**Start Test Time** 13:50:00  
**Final Test Time** 22:35:00

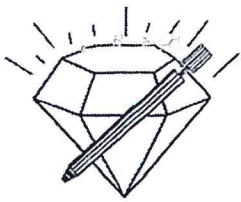
### Test Recovery:

**RECOVERED: 405' CO, 100% OIL, GRAVITY: 32**  
 15' M,SWCO, 61% OIL, 7% WATER, 32% MUD  
 250' SO&WCM, 24% OIL, 12% WATER, 64% MUD  
 120' G,SO&MCW, 4% GAS, 6% OIL, 62% WATER, 28% MUD  
 790' TOTAL FLUID

**TOOL SAMPLE: 37% OIL, 30% WATER, 33% MUD**

**CHLORIDES: 29,000 ppm**  
**PH: 7.5**  
**RW: .25 @ 70 deg.**





**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
MARIUS1-15DST2

Company New Gulf Operating, LLC Lease & Well No. Marius No. 1-15  
Elevation 3038 KB Formation Altamont "C" Effective Pay \_\_\_\_\_ Ft. Ticket No. T390  
Date 9-4-14 Sec. 15 Twp. 14S Range 34W County Logan State Kansas  
Test Approved By John Goldsmith Diamond Representative Tim Venters

Formation Test No. 2 Interval Tested from 4,324 ft. to 4,384 ft. Total Depth 4,384 ft.  
Packer Depth 4,319 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 4,324 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 4,305 ft. Recorder Number 8457 Cap. 10,000 psi.  
Bottom Recorder Depth (Outside) 4,381 ft. Recorder Number 11030 Cap. 5,025 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Val Energy, Inc. - Rig 4 Drill Collar Length 58 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 58 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.1 Water Loss 9.6 cc. Drill Pipe Length 4,233 ft I.D. 3 1/2 in.  
Chlorides 6,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 2 Anchor Length 29' perf. w/31' drill pipe Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, surface blow. No blow back during shut-in.  
2nd Open: No blow. No blow back during shut-in.

Recovered 65 ft. of mud = .384970 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Remarks Tool Sample Grind Out: Trace-oil; 100%-mud

Time Set Packer(s) 12:50 P.M. Time Started off Bottom 2:50 P.M. Maximum Temperature 112°  
Initial Hydrostatic Pressure.....(A) 2021 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 49 P.S.I. to (C) 52 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 442 P.S.I.  
Final Flow Period.....Minutes 30 (E) 53 P.S.I. to (F) 54 P.S.I.  
Final Closed In Period.....Minutes 30 (G) 335 P.S.I.  
Final Hydrostatic Pressure.....(H) 2019 P.S.I.



# DIAMOND TESTING

## General Information Report

### General Information

Company Name       NEW GULF OPERATING, LLC  
 Contact               JIM HENKLE  
 Well Name            MARIUS #1-15  
 Unique Well ID     DST #2, ALTAMONT "C", 4324-4384  
 Surface Location    SEC 15-14S-34W, LOGAN CO. KS.  
 Field                 WILDCAT  
 Well Type            Vertical  
 Test Type            CONVENTIONAL  
 Formation           DST #2, ALTAMONT "C", 4324-4384  
 Well Fluid Type     01 Oil

Representative       TIM VENTERS  
 Well Operator        NEW GULF OPERATING, LLC  
 Report Date          2014/09/04  
 Prepared By          TIM VENTERS  
 Qualified By          JOHN GOLDSMITH

Start Test Date       2014/09/04  
 Final Test Date       2014/09/04

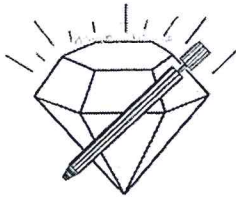
Start Test Time       10:10:00  
 Final Test Time       16:57:00

### Test Recovery:

RECOVERED: 65' MUD

TOOL SAMPLE: TRACE OIL, 100% MUD





**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
MARIUS1-15DST3

Company New Gulf Operating, LLC Lease & Well No. Marius No. 1-15  
Elevation 3038 KB Formation Fort Scott Effective Pay \_\_\_\_\_ Ft. Ticket No. T391  
Date 9-5-14 Sec. 15 Twp. 14S Range 34W County Logan State Kansas  
Test Approved By John Goldsmith Diamond Representative Tim Venters

Formation Test No. 3 Interval Tested from 4,414 ft. to 4,468 ft. Total Depth 4,468 ft.  
Packer Depth 4,409 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 4,414 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 4,395 ft. Recorder Number 8457 Cap. 10,000 psi.  
Bottom Recorder Depth (Outside) 4,465 ft. Recorder Number 11030 Cap. 5,025 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Val Energy, Inc. - Rig 4 Drill Collar Length 58 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 59 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 4,323 ft I.D. 3 1/2 in.  
Chlorides 7,200 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 2 Anchor Length 22' perf. w/32' drill pipe Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, 1/4 in. blow increasing to 2 1/2 ins. No blow back during shut-in.

2nd Open: Very weak, surface blow increasing to 1/2 in. No blow back during shut-in.

Recovered 85 ft. of slightly oil & water cut mud = .669570 bbls. (Grind out: 10%-oil; 4%-water; 86%-mud)  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks Tool Sample Grind Out: 18%-oil; 14%-water; 68%-mud (Chlorides: 18,000 Ppm PH: 8.0 RW: .41 @ 62°)

Time Set Packer(s) 10:07 A.M. Time Started off Bottom 12:37 P.M. Maximum Temperature 115°  
Initial Hydrostatic Pressure.....(A) 2084 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 9 P.S.I. to (C) 36 P.S.I.  
Initial Closed In Period.....Minutes 45 (D) 922 P.S.I.  
Final Flow Period.....Minutes 30 (E) 40 P.S.I. to (F) 45 P.S.I.  
Final Closed In Period.....Minutes 45 (G) 773 P.S.I.  
Final Hydrostatic Pressure.....(H) 2082 P.S.I.



# DIAMOND TESTING

## General Information Report

### General Information

Company Name NEW GULF OPERATING, LLC  
Contact JIM HENKLE  
Well Name MARIUS #1-15  
Unique Well ID DST #3, FT. SCOTT, 4414-4468  
Surface Location SEC 15-14S-34W, LOGAN CO. KS.  
Field WILDCAT  
Well Type Vertical  
Test Type CONVENTIONAL  
Formation DST #4, FT. SCOTT, 4414-4468  
Well Fluid Type 01 Oil

Representative TIM VENTERS  
Well Operator NEW GULF OPERATING, LLC  
Report Date 2014/09/05  
Prepared By TIM VENTERS  
Qualified By JOHN GOLDSMITH

Start Test Date 2014/09/05  
Final Test Date 2014/09/05

Start Test Time 07:43:00  
Final Test Time 15:10:00

### Test Recovery:

RECOVERED: 85' SO&WCM, 10% OIL, 4% WATER, 86% MUD

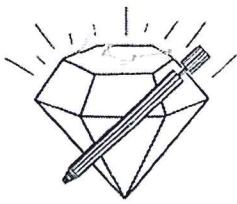
TOOL SAMPLE: 18% OIL, 14% WATER, 68% MUD

CHLORIDES: 18,000 ppm

PH: 8.0

RW. .41 @ 62 deg.





**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
MARIUS1-15DST4

Company New Gulf Operating, LLC Lease & Well No. Marius No. 1-15  
Elevation 3038 KB Formation Mississippi Effective Pay \_\_\_\_\_ Ft. Ticket No. T392  
Date 9-6-14 Sec. 15 Twp. 14S Range 34W County Logan State Kansas  
Test Approved By John Goldsmith Diamond Representative Tim Venters

Formation Test No. 4 Interval Tested from 4,568 ft. to 4,638 ft. Total Depth 4,638 ft.  
Packer Depth 4,563 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 4,568 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 4,549 ft. Recorder Number 8457 Cap. 10,000 psi.  
Bottom Recorder Depth (Outside) 4,635 ft. Recorder Number 11030 Cap. 5,025 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Val Energy, Inc. - Rig 4 Drill Collar Length 58 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 50 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.2 Water Loss 8.0 cc. Drill Pipe Length 4,477 ft I.D. 3 1/2 in.  
Chlorides 6,700 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 2 Anchor Length 38' perf. w/32' drill pipe Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

3low: 1st Open: Weak, 1/4 in. blow increasing. Off bottom of bucket in 13 1/2 mins. Weak, 1 1/4 in. blow back during shut-in.  
2nd Open: Weak, 1/4 in. blow increasing. Off bottom of bucket in 9 mins. Weak, 1 1/2 in. blow back during shut-in.

Recovered 435 ft. of gas in pipe  
Recovered 370 ft. of gassy oil = 5.265100 bbls. (Grind out: 7%-gas; 93%-oil) Gravity: 31 @ 60°  
Recovered 130 ft. of gas & heavy mud cut oil = 1.849900 bbls. (Grind out: 11%-gas; 48%-oil; 41%-mud)  
Recovered 125 ft. of slightly water & mud cut oil = 1.778750 bbls. (Grind out: 62%-oil; 3%-water; 35%-mud)  
Recovered 60 ft. of slightly water & mud cut oil = .313820 bbls. (Grind out: 85%-oil; 3%-water; 12%-mud)  
Recovered 685 ft. of TOTAL FLUID = 9.207570 bbls.  
Remarks Tool Sample Grind Out: 65%-oil; 14%-water; 21%-mud (Chlorides: 16,000 Ppm PH: 7.5 RW: .51 @ 61°)

Time Set Packer(s) 5:41 P.M. Time Started off Bottom 8:48 P.M. Maximum Temperature 124°  
Initial Hydrostatic Pressure.....(A) 2178 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 20 P.S.I. to (C) 132 P.S.I.  
Initial Closed In Period.....Minutes 47 (D) 1053 P.S.I.  
Final Flow Period.....Minutes 50 (E) 146 P.S.I. to (F) 275 P.S.I.  
Final Closed In Period.....Minutes 60 (G) 987 P.S.I.  
Final Hydrostatic Pressure.....(H) 2176 P.S.I.



# DIAMOND TESTING

## General Information Report

### General Information

Company Name NEW GULF OPERATING, LLC  
 Contact JIM HENKLE  
 Well Name MARIUS #1-15  
 Unique Well ID DST #4, MISSISSIPPIAN, 4568-4638  
 Surface Location SEC 15-14S-34W, LOGAN CO. KS.  
 Field WILDCAT  
 Well Type Vertical  
 Test Type CONVENTIONAL  
 Formation DST #4, MISSISSIPPIAN, 4568-4638  
 Well Fluid Type 01 Oil

Representative TIM VENTERS  
 Well Operator NEW GULF OPERATING, LLC  
 Report Date 2014/09/07  
 Prepared By TIM VENTERS  
 Qualified By JOHN GOLDSMITH

Start Test Date 2014/09/06  
 Final Test Date 2014/09/06

Start Test Time 15:09:00  
 Final Test Time 23:51:00

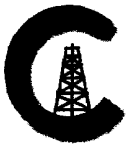
### Test Recovery:

RECOVERED: 435' GAS IN PIPE  
 370' GO, 7% GAS, 93% OIL, GRAVITY: 31  
 130' G,HMCO, 11% GAS, 48% OIL, 41% MUD  
 125' SW,MCO, 62% OIL, 3% WATER, 35% MUD  
 60' SW&MCO, 85% OIL, 3% WATER, 12% MUD  
 685' TOTAL FLUID

TOOL SAMPLE: 65% OIL, 14% WATER, 21% MUD

CHLORIDES: 16,000 ppm  
 PH: 7.5  
 RW: .51 @ 61 DEG.





**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 # 270914

Invoice Date: 09/11/2014 Terms: 10/10/10,n/30 Page 1

NEW GULF OPERATING LLC  
10441 S.REGAL BLVD.,STE 210  
TULSA OK 74133  
(918)728-3020

MARIUS  
15-14-34  
47684  
09/08/2014

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	200.00	20.7300	4146.00
1110A	KOL SEAL (50# BAG)	1000.00	.5600	560.00
1131	60/40 POZ MIX	400.00	15.8600	6344.00
1118B	PREMIUM GEL / BENTONITE	2752.00	.2700	743.04
1107	FLO-SEAL (25#)	100.00	2.9700	297.00
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4130	CENTRALIZER 5 1/2"	10.00	61.0000	610.00
4104	CEMENT BASKET 5 1/2"	1.00	290.0000	290.00
4277A	DV TOOL-WEATHERFORD 5 1/	1.00	4900.0000	4900.00
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00

Sublet Performed	Description	Total
9995-130	CEMENT EQUIPMENT DISCOUNT	-524.70
9996-130	CEMENT MATERIAL DISCOUNT	-1939.07

Description	Hours	Unit Price	Total
397 TON MILEAGE DELIVERY	1.00	1862.00	1862.00
399 SINGLE PUMP	1.00	3175.00	3175.00
528 EQUIPMENT MILEAGE (ONE WAY)	40.00	5.25	210.00

Amount Due 26121.20 if paid after 09/21/2014

Parts:	19390.79	Freight:	.00	Tax:	1335.07	AR	23509.09
Labor:	.00	Misc:	.00	Total:	23509.09		
Sublt:	-2463.77	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_ Date \_\_\_\_\_

BARTLESVILLE, OK 918/338-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-8822 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269 GILLETTE, WY 307/686-4914 CUSHING, OK 918/225-2650





**CONSOLIDATED**  
Oil Well Services, LLC

270914

TICKET NUMBER 47684  
LOCATION Oakley, Ko.  
FOREMAN Darren  
Jerry  
Ko.

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

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9/8/14	5661	Marius 1-15	15	14	34	Logan
CUSTOMER New Gulf Operating			Monument			
MAILING ADDRESS			5 To Inden			
CITY			R 3w			
STATE			IN			
ZIP CODE			winto			
TRUCK #	DRIVER	TRUCK #	DRIVER			
399	Michael		Colin			
528	Lance		Jordan			
397	Lance					
	Larry					

JOB TYPE 2 stage HOLE SIZE 7 7/8 HOLE DEPTH 4765 CASING SIZE & WEIGHT 5 1/2 15.5  
CASING DEPTH 4761 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DV Tool 2451 #54  
SLURRY WEIGHT 14 2/12 SLURRY VOL 142, 189 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING Shoe Joint 12.69  
DISPLACEMENT 113, 5833 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting Rig up on Val #4 Run Casing + Float Equipment  
Centralizers on #1, 2, 3, 6, 9, 15, 18, 53, 55. Basket on #54 1/2 Down DV Tool #54  
Pump 5 water mix 500 gal mud Flush Pump 5 water mix 200 sks OWC with #5 Kolseal  
Washup pump + Lines Release plug Displace with 60 bbls water + 53 bbls mud  
Lift 1000" Land 2000" Drop opening tool wait 15 min + open tool @ 900"  
Sit on for 3 hrs. Plug Mousehole 20 sks + Plug Rathole 30 sks mix sks 60/40 8% Gel 1/4 Floseal  
Down Casing washup pump + Lines Displace with bbls water land plug @ 2000 Lift 1200"  
(ball went through @ 1000")  
Float did hold cement did circulate  
Approx 4 bbl To Pit

*Thanks Darren + Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	\$3175.00	\$3175.00
5406	40	MILEAGE	\$5.25	\$210.00
5407A	26.60	Ton Mileage Delivery	\$1.75	\$466.50
1126	200 SKS	OWC	\$20.73	\$4146.00
1110A	1000 "	Kolseal	\$5.60	\$560.00
1131	400 SKS	60/40 Poz mix	\$15.86	\$6344.00
1118 B	2752 "	Bentonite	\$2.70	\$7430.40
1107	100 "	Floseal	\$2.97	\$297.00
1144 G	500 Gal	Mud Flush	\$1.00	\$500.00
4159	1	RFU Float Shoe 5 1/2 (w)	\$433.75	\$433.75
4130	10	Centralizers 5 1/2 (w)	\$61.00	\$610.00
4104	1	Basket 5 1/2 (w)	\$290.00	\$290.00
4277A	1	DV Tool 5 1/2 (w) SR# 2019527	\$4900.00	\$4900.00
4454	1	Latch Down Plug Assy (w) 5 1/2	\$567.00	\$567.00
			SubTotal	\$24637.75
			Less 10 %	\$22174.02
			SubTotal	\$22174.02
			SALES TAX	1335.00
			ESTIMATED TOTAL	23509.02

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.



## TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

## SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research, analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

## WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS, or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.