

# ALLIED OIL & GAS SERVICES, LLC 053914

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Medicine Lodge KS

DATE <u>09/15/12</u>	SEC. <u>10</u>	TWP. <u>34s</u>	RANGE <u>18w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Haley Unit</u>		WELL # <u>1-10H</u>		LOCATION <u>Butternut KKS, East on Rd T 3mi,</u>		COUNTY <u>Comanche</u>	STATE <u>KS</u>
OLD OR <u>(NEW)</u> (Circle one)				<u>Turn right at Y on second curve, 1 mi, North into</u>			

CONTRACTOR Patterson  
 TYPE OF JOB Liner  
 HOLE SIZE 6 1/2 T.D. 9856  
 CASING SIZE 4 1/2 DEPTH 9855  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES-MAX 3.000 MINIMUM  
 MEAS. LINE SHOE JOINT 47  
 CEMENT LEFT IN CSG. 47  
 PERFS.  
 DISPLACEMENT 116

OWNER Tug Hill  
 CEMENT  
 AMOUNT ORDERED 450sx Class H 50:50 P. 2+ 2%  
Gel + 5% Salt + .6% FL-10 + .1% CD-31 + .1% SA-SI +  
1/4 # Defender

EQUIPMENT

PUMP TRUCK CEMENTER Juan Thirnoch  
 # 558/555 HELPER Daren Franklin  
 BULK TRUCK  
 # 421/252 DRIVER Branden Boor  
 BULK TRUCK  
 # DRIVER

COMMON <u>Class H</u>	<u>225sx</u>	@	<u>21.20</u>	<u>4770</u>
POZMIX	<u>225sx</u>	@	<u>20.35</u>	<u>4578.75</u>
GEL	<u>8sx</u>	@	<u>23.90</u>	<u>187.20</u>
CHLORIDE		@		
ASC		@		
FL-160	<u>187lls</u>	@	<u>18.90</u>	<u>3572.10</u>
Defender	<u>112lls</u>	@	<u>9.80</u>	<u>1097.60</u>
CD-31	<u>28lls</u>	@	<u>10.20</u>	<u>291.40</u>
Salt	<u>191sx</u>	@	<u>26.35</u>	<u>314.20</u>
SA-SI	<u>28lls</u>	@	<u>17.55</u>	<u>666.90</u>
		@		
		@		
HANDLING	<u>491 cu ft</u>	@	<u>2.48</u>	<u>1217.68</u>
MILEAGE	<u>700 tn/mi x</u>		<u>2.60</u>	<u>1820</u>
TOTAL				<u>18617.83</u>

REMARKS:

Plug Held  
AFE 12-0139  
Cementing Code 830.12

SERVICE

DEPTH OF JOB	<u>9855</u>			
PUMP TRUCK CHARGE			<u>5920.20</u>	
EXTRA FOOTAGE		@		
MILEAGE	<u>35mi</u>	@	<u>7.70</u>	
MANIFOLD		@		
LV	<u>35mi</u>	@	<u>4.40</u>	
		@		
TOTAL				<u>6343.70</u>

CHARGE TO: Tug Hill  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL NA

SALES TAX (If Any) 981.55

TOTAL CHARGES 24961.53

DISCOUNT 35% IF PAID IN 30 DAYS

Net 16,224.99

D 8736.53

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

PRINTED NAME Tony Earnest

SIGNATURE Tony Earnest





# Daily Drilling Report

11/19/2012 2:49 PM

## Well Information

Well Haley Unit 1-10H		AFE Number 12-0139		Report Date 9/15/2012	
Country USA	State KS	County Comanche	Field Buttermilk East		Lease 200' FSL 660' FWL/SW SW
API / IPO UWI Comanche		Orig KB Elev (ft)		Ground Elevation (ft) 1838.0	KB-GRD (ft) -1838.0
Qtr/Qtr, Block, Sec, Town, Range .10,34S,18W			Spud Date 8/27/2012		Rig Release Date 9/16/2012

## Daily Operations

### 24 Hour Summary

FIN/ TOH, SM & R/U CSG TOOLS, M/U BABER FS AND LANDING COLLAR 1 JT UP AND P/U 111 JTS (4,280') 4 1/2" 11.6# LT&C CSG. + BAKER LINER HANGER & PACKER. TIH W/ LINER ON 4" DP TO 9856 AND P/U CEMENT CONTROL HEAD. CIRC W/ RIG PUMP AND R/U ALLIED CEMENTERS. ALLIED TEST LINES TO 4,000 psi, PUMP DOWN BALL AND SET LINER HANGER SLIPS W/ CSG SHOE AT 9854' AND TOL AT 5,544'. PUMP 10 BBLs SPACER AND MIX & PUMP 450 sx 50/50 POZ CLASS H CEMENT+2% GEL +5% SALT + .6%FL-160 + .1% SA-51 + DEFOAMER, MIX WT.14.0 ppg, YLD 1.35 cu ft/sx, RELEASED PLUG AND DISPLACED W/ 105 BBLs WATER, SET LINER TOP PACKER AND RELEASED RUNNING TOOL. TEST PKR TO 1,500 psi OK, REVERSED OUT 20 BBLs CEMENT. AND CONTINUE REVERSE OUT UNTIL CLEAN WATER CAME AROUND. R/D CEMENTER AND BAKER CEMENT CONTROL HEAD.

### 24 Hr Forecast

L/D DRILL PIPE, N/D BOP AND INSTALL DRY HOLE TREE, CLEAN MUD TANKS AND RELEASE RIG'

### Operations At Report Time

R/U LAY DOWN MACHINE

### Daily Total (Cost)

\$146928.00

### Cum Daily Total (cost)

\$1785707.99

### Total AFE (Cost)

\$0.00

## Daily Contacts

### Wellsite Supervisor

TONY EARNEST

### Supervisor Phone

281-833-2373

## Time Log

Start Time	End Time	Hours	Log Start Depth	Log End Depth	Activity Code	Description
6:00	12:00	6.00	9856.0	9856.0	TOH	TOH SLOW UNTIL IN CSG & FINISH TOH
12:00	13:00	1.00	9856.0		DIR	L/D DIR. BHA
13:00	14:30	1.50	9856.0		RCSG	R/U CSG TOOLS
14:30	15:30	1.00	9856.0		LUBE	SER. RIG
15:30	19:30	4.00	9856.0	9856.0	RCSG	P/U 4 1/2" BAKER SHOE + LC 1 JT UP AND 10 JTS 11.6 P-110 LT&C (425') + 101 JTS 11.6 N-80 LT&C (3854.72') TOTAL 4,279.72 AND P/U BAKER LINER HANGER & PACKER. ASSY, INSTALL A TURBOLIZER ON EVERY 10 JTS
19:30	20:00	0.50	9856.0		RCSG	R/D CASING CREW
20:00	0:00	4.00	9856.0		TIH	TIH HOLE W/ 4 1/2" LINER ON 4" DP TO 9856, P/U BAKER CEMENT CONTROL HEAD.
0:00	1:30	1.50	9856.0		COND	CIRC. W/ RIG PUMP, TRIP GAS 846U, SAFETY MEETING W/ CEMENTERS
1:30	2:30	1.00	9856.0		CMNT	ALLIED PUMP BALL DOWN AND SET BAKER LINER HANGER SLIPS W/ CSG SHOE AT 9,854 AND TOL AT 5,544'
2:30	3:30	1.00	9856.0		CMNT	PUMP 10 BBLs SPACER AND MIX & PUMP 450 sx 50/50 POZ CLASS H CEMENT + 2% GEL + 5% SALT + .6% FL-160 + .1% CD-31 + .1 SA-31 + DEFOAMER, MIX WT 14.0 ppg, YLD 1.35 cu ft/sx, RELEASED PLUG AND DISPLACED W/ 105 BBLs WATER, PLUG DOWN AT 03:45 AM, FLOAT HELD.
3:30	4:00	0.50	9856.0		CMNT	SET LINER TOP PACKER AT 5,544'
4:00	5:00	1.00	9856.0		CMNT	TEST LINER TOP PACKER TO 1,500 psi OK, AND REVERSED OUT 20 BBLs CEMENT AND CONTINUE REVERSING W/ WATER UNTIL RETURNS WAS CLEAR
5:00	5:30	0.50	9856.0		CMNT	R/D CEMENTER AND BABER CEMENT CONTROL HEAD
5:30	6:00	0.50	9856.0	9856.0	TOH	R/U LAY DOWN MACHINE

## Mud Checks

Type	Depth (ftKB) 9856.0	Source	Density (lb/gal)	Funnel Viscosity (s/qt)	Filtrate (mL/30min)	
HTHP Filtrate (ml/30min)	Mud Lost Hole (bbl)	Mud Lost (Surf) (bbl)	PV(cp)	YP (lb/100ft <sup>2</sup> )	pH	
Vis 6rpm	Lime (lb/bbl)	Gel 30 min (lb/100ft <sup>2</sup> )	Gel 30 min (lb/100ft <sup>2</sup> )	Gel 10 sec (lb/100ft <sup>2</sup> )	Gel 10 min (lb/100ft <sup>2</sup> )	
Calcium (mg/L)	Ca CL (wt%)	Solids (%)	LGS (%)	Sand (%)	Percent Oil (%)	
				Oil Water Ratio	Electric Stab (V)	MBT (lb/bbl)





# Daily Drilling Report

11/19/2012 2:49 PM

## Bit Record

Bit Number	Size	Make	Model	Serial No.	Depth In	Depth Out	Footage
					0.0	In Hole	9,856.0

## BHA

BHA #	Item Number	Component Type	OD	ID	Length	Cumulative Length	Fishing Neck	Top Connection

## Drilling Parameters

Start Depth (ftKB) 9856.0	End Depth (ftKB) 9856.0	Cum Depth Drilled (ft) 0.0	Total ROP (ft/hr) 0.00	Drilling Torque	
Motor RPM (rpm)	RPM (rpm)	QGas Inj (ft <sup>3</sup> /min)	Drilling Time (hr) 13.50	Rotating Time (hr)	Circulation Time (hr)
Cum Drilling Time (hr) 232.50	SPP (psi)	Flow Rate (gpm) 0.00	TFA (incl Noz) (in <sup>2</sup> )	Weight on Bit (lbf)	String Wt (lbf)

## Pump Operations

## Hydraulic Data

## Survey Data