

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1171833

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 #			API No. 15	
Name:			Spot Description:	
Address 1:			Sec	TwpS. R
Address 2:			Feet	from North / South Line of Sectio
City: St	ate: Zip	D:+	Feet	from East / West Line of Section
Contact Person:			Footages Calculated from Ne	earest Outside Section Corner:
Phone: ()			□ NE □ NW	☐ SE ☐ SW
CONTRACTOR: License #			GPS Location: Lat:	, Long:
Name:				g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:			Datum: NAD27 NAD27	
Purchaser:			County:	
Designate Type of Completion:			Lease Name:	Well #:
New Well Re-	·Fntrv	Workover	Field Name:	
	_		Producing Formation:	
☐ Oil ☐ WSW	SWD	SIOW	Elevation: Ground:	Kelly Bushing:
☐ Gas ☐ D&A ☐ OG	☐ ENHR	☐ SIGW ☐ Temp. Abd.	Total Vertical Depth:	Plug Back Total Depth:
CM (Coal Bed Methane)	G3W	iemp. Abd.	Amount of Surface Pipe Set a	and Cemented at: Fee
Cathodic Other (Core	Expl etc.)		Multiple Stage Cementing Co	
If Workover/Re-entry: Old Well Inf				Fee
Operator:				nent circulated from:
Well Name:			, ,	w/sx cm
Original Comp. Date:			loot doparto.	
	_	NHR Conv. to SWD		
Deepening Re-perf. Plug Back	Conv. to GS		Drilling Fluid Management F (Data must be collected from the	
Commingled	Permit #:		Chloride content:	ppm Fluid volume: bbl
Dual Completion	Permit #:		Dewatering method used:	
SWD	Permit #:		Location of fluid disposal if ha	auled offsite:
☐ ENHR	Permit #:		One water Name .	
GSW	Permit #:			
				License #:
Spud Date or Date Rea	iched TD	Completion Date or		TwpS. R
Recompletion Date		Recompletion Date	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 III Approved by: Date:			

Page Two



Operator Name:			Lease Name:			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow	ing and shut-in pressu	ormations penetrated. Dures, whether shut-in preith final chart(s). Attach	ssure reached stati	c level, hydrosta	tic pressures, bott		
		tain Geophysical Data a r newer AND an image f		gs must be ema	iled to kcc-well-log	gs@kcc.ks.gov	. Digital electronic log
Drill Stem Tests Taken (Attach Additional S		Yes No			n (Top), Depth an		Sample
Samples Sent to Geol	ogical Survey	☐ Yes ☐ No	Nam	9		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING	RECORD Ne	w Used			
		Report all strings set-o			on, 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 / SQL	EEZE RECORD	I	1	
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Po	ercent Additives	
Perforate Protect Casing Plug Back TD	тор вошот						
Plug Off Zone							
Does the volume of the to	•	n this well? aulic fracturing treatment ex submitted to the chemical o		Yes [Yes [Yes [No (If No, ski)	o questions 2 and question 3) out Page Three	
Shots Per Foot		N RECORD - Bridge Plug			cture, Shot, Cement		
S.13.6 Y G. 7 GG.	Specify Fo	ootage of Each Interval Perf	orated	(Ar	nount and Kind of Ma	terial Used)	Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENH	IR. Producing Meth		Gas Lift C	other (Explain)		
Estimated Production Per 24 Hours	Oil B	bls. Gas	Mcf Wate	er Bl	bls. G	ias-Oil Ratio	Gravity
				T.O.		DE 0-11-	
DISPOSITION Vented Sold	ON OF GAS: Used on Lease	Open Hole	METHOD OF COMPLE Perf. Dually		nmingled	PRODUCTIO	ON INTERVAL:
(If vented, Sub		Other (Specify)	(Submit A		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	HARDTNER HOMES 1
Doc ID	1171833

Tops

Name	Тор	Datum
CHASE	1956	-459
ONAGA	2332	-835
HEEBNER	3872	-2375
DOUGLAS	3924	-2427
SWOPE LS	4561	-3064
MISSISSIPPIAN	4800	-3303
KINDERHOOK SH	5160	-3663
SIMPSON	5390	-3893

ALLIED OIL & GAS SERVICES, LLC 059558

Federal Tax I.D.# 20-5975804 REMIT TO P.O. BOX 93999 SERVICE POINT: Medicing Lodgeiks SOUTHLAKE, TEXAS 76092 JOB FINISH 2:30 pm CALLED OUT RANGE ON LOCATION JOB START 136 Hate8-11.2013 GOUNTY Barber LOCATION Gyphill RZ, 16 South Homes OLD OR NEW (Circle one) to Raffles nake Rt 1 legst, 8/1nic oss. OWNER Woolsey Operating CONTRACTOR US fale TYPE OF JOB CEMENT **HOLE SIZE** <u>T.D.</u> AMOUNT ORDERED 230Sp Class p + 30/00c **CASING SIZE** DEPTH **TUBING SIZE** DEPTH 290 Gel DRILL PIPE DEPTH TOOL DEPTH 230 sk@ 17.90 4117.00 PRES. MAX COMMON **MINIMUM** MEAS. LINE SHOE JOINT POZMIX CEMENT LEFT IN CSG 201 **GEL** @**64/.6**0 **CHLORIDE** PERFS. DISPLACEMENT 30 bbls of fresh water ASC @ **EQUIPMENT** @ @ CEMENTER DGrin PUMP TRUCK @ #471-265 HELPER JGKe @ BULK TRUCK # 364 @ DRIVER ത **BULK TRUCK** DRIVER HANDLING MILEAGE ZZ REMARKS: TOTAL*5927.8*6 See Cement Los SERVICE Cemen+ DEPTH OF JOB 2251 PUMP TRUCK CHARGE Regulatory Correspondence **EXTRA FOOTAGE** MILEAGE @ Workovers Orld / Comp Swezzezuejue@ Operations 4 1 Tests / Meters @4.4 @ CHARGE TO: Woolsey Opersting TOTAL 1754-25 STREET ZIP. _STATE_ PLUG & FLOAT EQUIPMENT @ @ 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 TOTAL _ done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL SALES TAX (If Any). TERMS AND CONDITIONS" listed on the reverse side. TOTAL CHARGES 7682.11 PRINTED NAME X IF PAID IN 30 DAYS (DE+) 5761-58 SIGNATURE Y

ALLIED OIL & GAS SERVICES, LLC 059890 Federal Tax 1.D.# 20-5975804

REMIT TO P.O. BOX 93999 SOUTHLAKE TEXAS 76002

SERVICE POINT:

				Lodge KS
DATE 08/23/13 25 343 13W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE WELL# LOCATION Hardtn	Ke W. II	1 0 al t.	COUNTY	STATE
127017		1 to Katte sove	Sarber	1 KS
The west	South into	······································]	
CONTRACTOR Fassi Drilling	OWNER W	alson		
TYPE OF JOB Production	9112121	01257		
HOLE SIZE 73 T.D.	CEMENT			
CASING SIZE 5% DEPTH 5373	AMOUNT OR	DERED 90sx 6	0:40:41	175a
TUBING SIZE DEPTH	Class H+10	DERED <u>90sx (</u> %Gypsea\+10% &a 1288b 14	Salt 2 6# 6	(alcoal + 80)
DRILL PIPE DEPTH	FL-160+ 2# F/	real . +2 881- 14	Gala KC	1
TOOL DEPTH	•	,		
PRES. MAX [700 MINIMUM	COMMON	<u>54</u>	@17.60	966.60
MEAS, LINE SHOE JOINT 44	POZMIX	.36	@ 9.35	336.60
CEMENT LEFT IN CSG. 44	GEL		@23.40	70.20
PERFS.	CHLORIDE_		@	70.0
DISPLACEMENT / 27 BBL 2% KCL H20	ASC		@	
EQUIPMENT	H WS	SX.	@71.20	2650 =°
	GYNSEA		@ 3 2.60	883.66
PUMPTRUCK CEMENTER Jeson Thingsch	5017	/3 sx	@76-35	342.55
# 360/302 HELPER Jake Heard	Kobeal	250 TE	@ 98	735.00
BULK TRUCK	_F1-160	94	@ 18.80	1276.60
# 364 DRIVER Carl Rackley Jana Bowen	floseu (36.25	@2-97	92.81
BULK TRUCK	Clapro	13 601	@34.40	447.20
# DRIVER			@	
DRIVER	HANDLING_	2.50 /	Q2-48	620.00
	MILEAGE	11.26/20		585.52
REMARKS:			TOTAL	9436.74
		•	IOIAL	1106-19
TT WITE		CEDVIC	712	
TATHILL I I		SERVIC	.E.	
Correspondence	DEBLA OF 10	D (1377		
Regulatory Correspondence Workovers	DEPTH OF JO		570 7	•
Regulatory Correspondence Regulatory Correspondence Workovers Operations	PUMP TRUCK	CHARGE 2		3 .
	PUMP TRUCK EXTRA FOOT	CHARGE2 AGE	.@	
Regulatory Correspondence Workovers Orlg (Comp) Operations Tests Meters	PUMP TRUCK EXTRA FOOT MILEAGE	CHARGE 2 AGE 20	@ @ <i>7</i> .70	154.60
	PUMPTRUCK EXTRA FOOT MILEAGE MANIFOLD	CHARGE 2 AGE 0 - Head	@ @ <u>770</u> @	154.60 275.60
	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	CHARGE 2 AGE 20	@ <u>7.70</u> @ <u>4.40</u>	154.60
Tests Meters Operations	PUMPTRUCK EXTRA FOOT MILEAGE MANIFOLD	CHARGE 2 AGE 0 - Head	@ @ <u>770</u> @	154.60 275.60
244 (1701) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PUMPTRUCK EXTRA FOOT MILEAGE MANIFOLD	CHARGE 2 AGE 0 - Head	@ <u>7.70</u> @ <u>7.40</u> @ <u>4.40</u>	154-60 275.60 38.00
Tests Meters Operations	PUMPTRUCK EXTRA FOOT MILEAGE MANIFOLD ♣	CHARGE 2 AGE 0 - Head	@ <u>7.70</u> @ <u>7.40</u> @ <u>4.40</u>	154.60 275.60
CHARGE TO: Woo Isey	PUMPTRUCK EXTRA FOOT MILEAGE MANIFOLD ♣	CHARGE 2 AGE 0 - Head	@ <u>7.70</u> @ <u>7.40</u> @ <u>4.40</u>	154-60 275.60 38.00
CHARGE TO: Woolsey	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	CHARGE	@ @ <u>7: >0</u> @ @ <u>4: 40</u> @ TOTAL	754:00 275.00 88.00 3282.75
CHARGE TO: Woo Isey	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD	CHARGE 2 AGE 0 - Head	@ @ <u>7: >0</u> @ @ <u>4: 40</u> @ TOTAL	754:00 275.00 88.00 3282.75
CHARGE TO: Woo Isey	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4	CHARGE	@ @ <u>7: >0</u> @ @ <u>4: 40</u> @ TOTAL	754:00 275.00 38.00 3282.75
CHARGE TO: Woo Isey	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4	CHARGE	@ @ <u>7: >0</u> @ @ <u>4: 40</u> @ TOTAL	754:00 275.00 38.00 3282.75
CHARGE TO: Woo sey STREET STATE ZIP	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4	CHARGE 2 AGE 20 -llead PLUG & FLOAT	@	754:00 275.00 38.00 3282.75
CHARGE TO: Woo sey STREET CITY STATE ZIP To: Allied Oil & Gas Services, LLC.	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4 LV Separate Sep	CHARGE 2 AGE 20 -llead PLUG & FLOAT	@ 7.20 @ 4.40 @ TOTAL EQUIPMEN	754:00 275.00 38.00 3282.75
CHARGE TO: Woo sey STREET To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4	CHARGE 2 AGE 20 -llead PLUG & FLOAT	@ Z Z O @ Z Z O O O O O O O O O O O O O	754:00 275.00 38.00 3282.75
CHARGE TO: Woo sey STREET CITY STATE ZIP To: Allied Oil & Gas Services, LLC.	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4 LV Separate Sep	CHARGE 2 AGE 20 -llead PLUG & FLOAT	@ 7.20 @ 4.40 @ TOTAL EQUIPMEN	754:00 275.00 38.00 3282.75
CHARGE TO: Woo sey STREET To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4 LV Separate Sep	CHARGE 2 AGE 20 -llead PLUG & FLOAT	@ Z Z O @ Z Z O O O O O O O O O O O O O	754:00 275.00 38.00 3282.75
CHARGE TO: Woo sey STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4 LV Separate Sep	CHARGE 2 AGE 20 -llead PLUG & FLOAT	@ Z Z O @ Z Z O O O O O O O O O O O O O	754:00 275.00 88.00 3282.75 VI 3282.75 868.50 531-30
CHARGE TO: Woo sey STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4 LV Separate Sep	CHARGE 2 AGE 20 -llead PLUG & FLOAT	@	754:00 275.00 88.00 3282.75 VI 3282.75 868.50 531-30
CHARGE TO: Woo sey STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4 LV AFU Floor Latch down Scratchers Turbolizers	CHARGE 2 AGE 20 Flug & FLOAT A Shoe 1 7 Plug 1 24	@	754:00 275.00 88.00 3282.75 VI 3282.75 868.50 531-30
CHARGE TO: Woo sey STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD & LV AFU Floor Latch down Scratchers Turbolizers SALES TAX (1)	CHARGE 2 AGE 20 Head 20 PLUG & FLOAT A Shoe 1 1 Flag 1 24 11	@ Z Z O @ Z Z O O O O O O O O O O O O O	754:00 275.00 88.00 3282.75 VI 3282.75 868.50 531-30
CHARGE TO: Woo sey STREET CITY STATE ZIP 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.	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD 4 LV AFU Floor Latch down Scratchers Turbolizers	CHARGE 2 AGE 20 Head 20 PLUG & FLOAT A Shoe 1 1 Flag 1 24 11	@	754:00 275.00 88.00 3282.75 VI 3282.75 868.50 531-30
CHARGE TO: Woo sey STREET	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD & LV AFU Floor Latch down Scratchers Turbolizers SALES TAX (1)	CHARGE 2 AGE 20 Head 20 PLUG & FLOAT A Shoe 1 1 Flag 1 24 11	@ Z Z Q @ Z Z Q Q Q Q Q Q Q Q Q Q Q Q Q	754.00 275.00 38.00 3282.75 VI 3282.75
CHARGE TO: Woo sey STREET CITY STATE ZIP 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.	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD & LV AFU Floor Latch down Scratchers Turbolizers SALES TAX (I	CHARGE 2 AGE 20 Head 20 PLUG & FLOAT A Shoe 1 1 Flag 1 24 11	@ Z Z Q @ Z Z Q Q Q Q Q Q Q Q Q Q Q Q Q	754:00 275.00 88.00 3282.75 VI 3282.75 868.50 531-30
CHARGE TO: Woo sey STREET CITY STATE ZIP 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 THERE	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD & LV AFU Floor Latch down Scratchers Turbolizers SALES TAX (I	CHARGE 2 AGE 20 Head 20 PLUG & FLOAT A Shoe 1 1 Flag 1 24 11	@ Z Z Q @ Z Z Q Q Q Q Q Q Q Q Q Q Q Q Q	754.00 275.00 38.00 3282.75 VI 3282.75
CHARGE TO: Woo sey STREET CITY STATE ZIP 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.	PUMP TRUCK EXTRA FOOT MILEAGE MANIFOLD & LV AFU Floor Latch down Scratchers Turbolizers SALES TAX (I	CHARGE 2 AGE 20 Head 20 PLUG & FLOAT A Shoe 1 1 Flag 1 24 11	@ Z Z Q @ Z Z Q Q Q Q Q Q Q Q Q Q Q Q Q	754.00 275.00 38.00 3282.75 VI 3282.75



Woolsey Operating Co

25-34S-13W Barber

125 N Market Ste 1000 Wichita, KS 67202 Hardtner Homes 1

Job Ticket: 52388

DST#: 1

1497.00 ft (KB)

ATTN: Scott Alberg

Test Start: 2013.08.18 @ 11:42:32

GENERAL INFORMATION:

Formation: Cherokee-Mississippi

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 13:51:32 Tester: Leal Cason
Time Test Ended: 17:29:32 Unit No: 45

Interval: 4737.00 ft (KB) To 4850.00 ft (KB) (TVD) Reference Elevations:

Total Depth: 4850.00 ft (KB) (TVD) 1485.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 6798 Inside

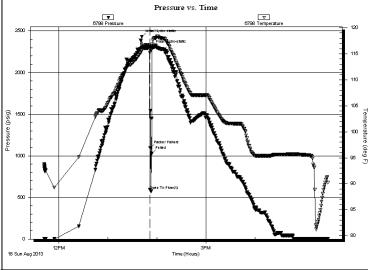
 Press@RunDepth:
 psig
 @
 4738.00 ft (KB)
 Capacity:
 8000.00 psig

 Start Date:
 2013.08.18
 End Date:
 2013.08.18
 Last Calib.:
 2013.08.18

 Start Time:
 11:42:33
 End Time:
 17:29:32
 Time On Btm:
 2013.08.18 @ 13:41:47

 Time Off Btm:
 2013.08.18 @ 13:54:17

TEST COMMENT: IF: Packer Failure, (After Sliding 10-12 Feet) Tried to reset, Pulled Tool



	PRESSURE SUMMARY			
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2432.20	115.69	Initial Hydro-static
	10	591.44	115.20	Open To Flow (1)
	11	1096.66	115.80	Packer Failure
7	13	1027.10	116.07	Pulled
Temnerature (de	13	2302.87	116.53	Final Hydro-static
et ire				
neb)				
9				

DDECCLIDE CLIMANA DV

Recovery

Description	Volume (bbl)
Drlg Mud	19.92
	·

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

Trilobite Testing, Inc Ref. No: 52388 Printed: 2013.08.18 @ 23:23:35



FLUID SUMMARY

ppm

DST#: 1

Woolsey Operating Co

25-34S-13W Barber

125 N Market Ste 1000 Wichita, KS 67202

ATTN: Scott Alberg

Hardtner Homes 1

Job Ticket: 52388

Test Start: 2013.08.18 @ 11:42:32

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Viscosity: 48.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4800.00 ppm Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1500.00	Drlg Mud	19.921

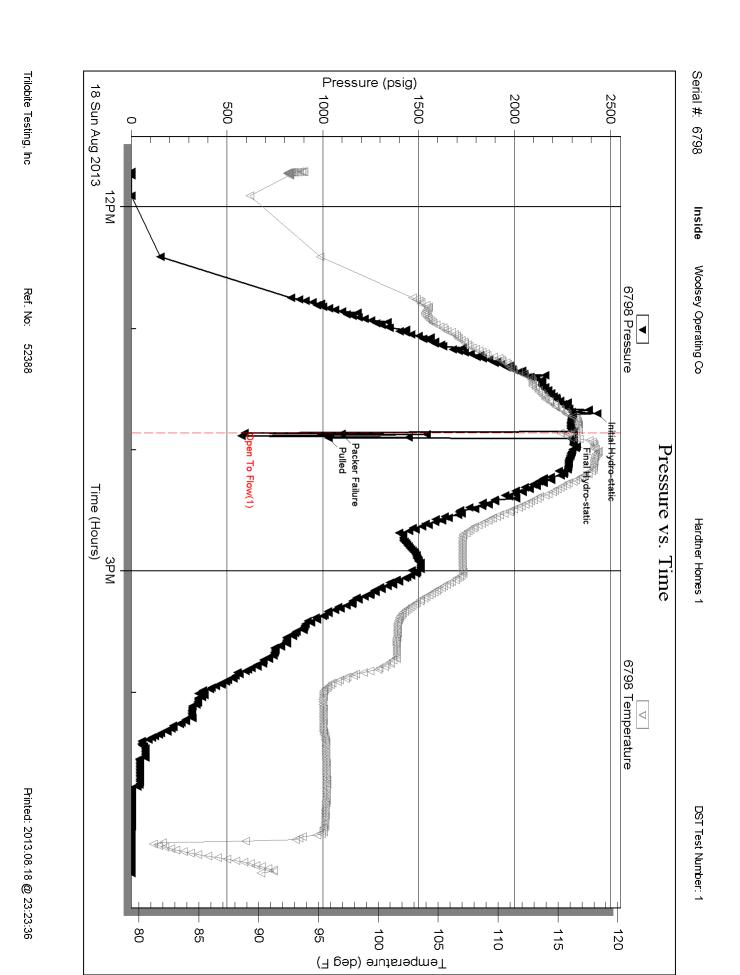
Total Length: 1500.00 ft Total Volume: 19.921 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 52388 Printed: 2013.08.18 @ 23:23:36





Woolsey Operating Co

25-34S-13W Barber

125 N Market Ste 1000 Wichita, KS 67202 Hardtner Homes 1

Job Ticket: 52389

DST#: 2

1485.00 ft (CF)

ATTN: Scott Alberg

Test Start: 2013.08.20 @ 05:14:15

GENERAL INFORMATION:

Formation: Cherokee-Mississippi

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 07:41:21 Tester: Leal Cason
Time Test Ended: 14:10:50 Unit No: 45

Interval: 4737.00 ft (KB) To 4850.00 ft (KB) (TVD) Reference Elevations: 1497.00 ft (KB)

Total Depth: 4737.00 ft (KB) (TVD) Reference Elevations:

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 6798 Inside

Press @RunDepth: 78.64 psig @ 4738.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2013.08.20
 End Date:
 2013.08.20
 Last Calib.:
 2013.08.20

 Start Time:
 05:14:16
 End Time:
 14:10:50
 Time On Btm:
 2013.08.20 @ 07:33:51

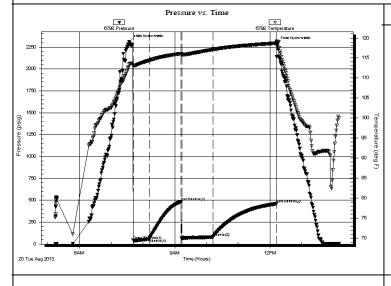
Time Off Btm: 2013.08.20 @ 12:13:21

TEST COMMENT: IF: Fair Blow , BOB in 26 minutes

ISI: No Blow Back

FF: Weak Blow, BOB in 34 minutes

FSI: No Blow Back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2311.69	113.37	Initial Hydro-static
8	43.88	113.19	Open To Flow (1)
38	61.60	114.41	Shut-In(1)
99	484.11	116.09	End Shut-In(1)
100	56.55	115.81	Open To Flow (2)
158	78.64	117.09	Shut-In(2)
279	462.14	118.73	End Shut-In(2)
280	2286.49	119.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	Mud	0.60
* Recovery from n	nultiple tests	

Gas Rates

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

Trilobite Testing, Inc Ref. No: 52389 Printed: 2013.08.20 @ 14:50:03



FLUID SUMMARY

Woolsey Operating Co

25-34S-13W Barber

125 N Market Ste 1000 Wichita, KS 67202 Hardtner Homes 1

Job Ticket: 52389

Serial #:

DST#: 2

ATTN: Scott Alberg

Test Start: 2013.08.20 @ 05:14:15

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 48.00 sec/qt Cushion Volume: bbl

Water Loss: 7.98 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4800.00 ppm Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	Mud	0.605

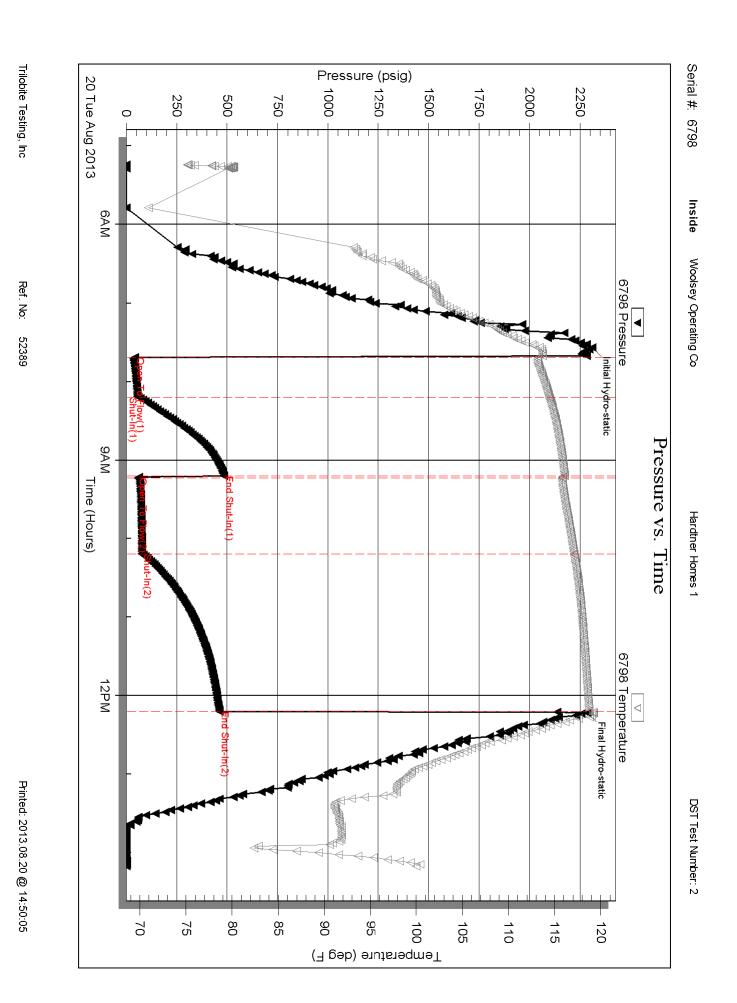
Total Length: 123.00 ft Total Volume: 0.605 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 52389 Printed: 2013.08.20 @ 14:50:04





Woolsey Operating Company, LLC Scale 1:240 (5"=100") Imperial

Measured Depth Log

Well Name: HARDTNER HOMES 1

Location: E/2 NW NW SE

License Number: API: 15-007-24046-00-00 Region: Barber County, Kansas

Spud Date: August 11, 2013 Drilling Completed: August 23, 2013

Surface Coordinates: Section 25-T34S-R13W, 2310' FSL, 2150' FEL

Hardtner

Bottom Hole Vertical Hole

Coordinates:

Ground Elevation (ft): 1485 K.B. Elevation (ft): 1497 Logged Interval (ft): 3800 To: RTD Total Depth (ft): 5485

Formation: McLish Shale

Type of Drilling Fluid: Chemical Mud, Displace at 3376'.

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Woolsey Operating Company,LLC

Address: 125 N. Market, Suite 1000

Wichita, KS 67202

GEOLOGIST

Name: W. Scott Alberg

Company: Alberg Petroleum, LLC Address: 609 Meadowlark Lane

Pratt, Kansas 67124

FORMATION TOPS

	SAMPLE TOPS	LOG TOPS
LECOMPTON	3624(-2127)	3622(-2125)
KANWAKA	3637(-2140)	3634(-2137)
HEEBNER	3877(-2380)	3872(-2375)
HASKELL	4079(-2582)	4077(-2580)
STARK SHALE	4558(-3061)	4555(-3058)
HUSHPUCKNEY SHALE	4585(-3088)	4580(-3083)
B/KC	4636(-3139)	4632(-3135)
PAWNEE	4726(-3229)	4725(-3228)
CHEROKEE GROUP	4774(-3277)	4774(-3277)
MISSISSIPPIAN	4810(-3313)	4800(-3303)
KINDERHOOK SHALE	5162(-3665)	5160(-3663)
WOODFORD SHALE	5231(-3734)	5229(-3732)
VIOLA	5279(-3782)	5282(-3785)
SIMPSON SHALE	5390(-3893)	5390(-3893)
SIMPSON SAND	5406(-3909)	5406(-3909)
MCLISH SHALE	5448(-3951)	5447(-3950)
RTD	5485(-3988)	, ,
LTD	•	5485(-3988)

COMMENTS

Surface Casing: Set 5 joints 13 3/8" at 223' with 235 sxs Class A, 2% gel, 3% cc, plug down at 2:30 am on August 12, 2013. Cement did Circulate.

Production Casing: Ran 5 1/2" Casing

Deviation Surveys:1 - 225', 1/4 - 2046', 3/4 - 2522', 3/4 - 3027', Missrun - 3563', 3/4 - 3627', 1 - 4293', 1 - 4850', 1

1/2 - 5485'.

Contractor Bit Record:

1- 17 12" out at 225'.

2- 7 7/8" out at 4850'.

3-77/8" out at 5485'.

Pipe Strap at

Board 4862.45'

Strap 4863.36'

Strap Long .91'

Gas Detector: Woolsey Operating Company, Trailer #1 Mud System: Mud Co, Brad Bortz, Terry Ison, Engineers

DSTs: Trilobite Testing

Logged by Nabors Completion and Production Services

LTD - 5485'.

DSTs

DST #1 4737 to 4850' Cherokee-Mississippian

Missrun - Could not get to bottom, tool slide 10', packer failed. Had 25' fill when reconditioning the hole.

Recovery: 1500' Drilling Mud.

IHP 2432# FHP 2302#

FP invalid, No SIP

DST #2 4737 to 4850 Cherokee-Mississippian

Times 30-60-60-120

1st Opening - fair blow, BOB 26 minutes, no blow back.

2nd Opening - weak to fair blow, BOB 34 minutes, no blow back.

Recovery: 123' Drilling Mud. IFP 44-62# FFP 57-79# ISIP 484# FSIP 462# IHP 2312# FHP 2286# Temp 119 degrees.

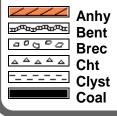
CREWS

Fossil Drilling, Inc Rig #3 Tool Pusher - Jim Wenrich

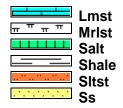
Drillers - Days - Daniel Orranta

Evening - Ron Burns Morning - Andres Maestas Relief - Allen Collins

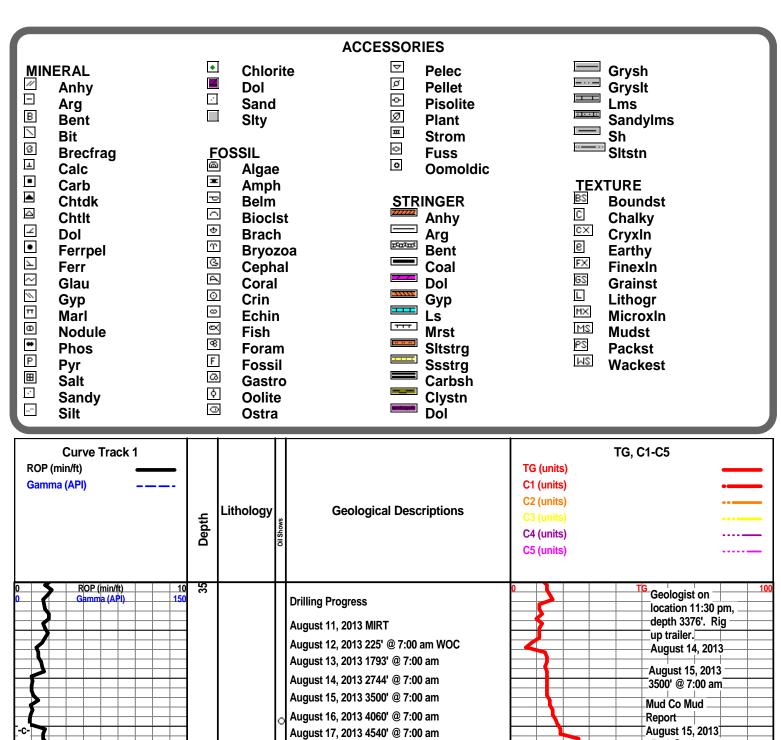
ROCK TYPES

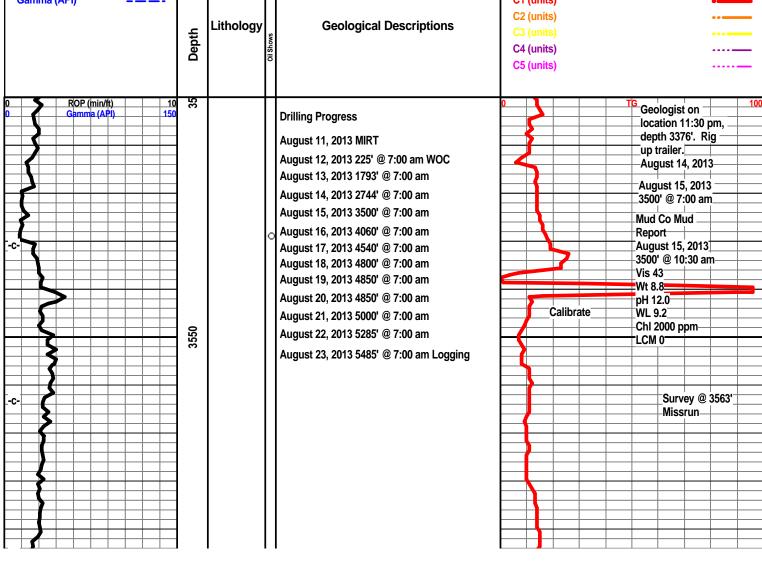


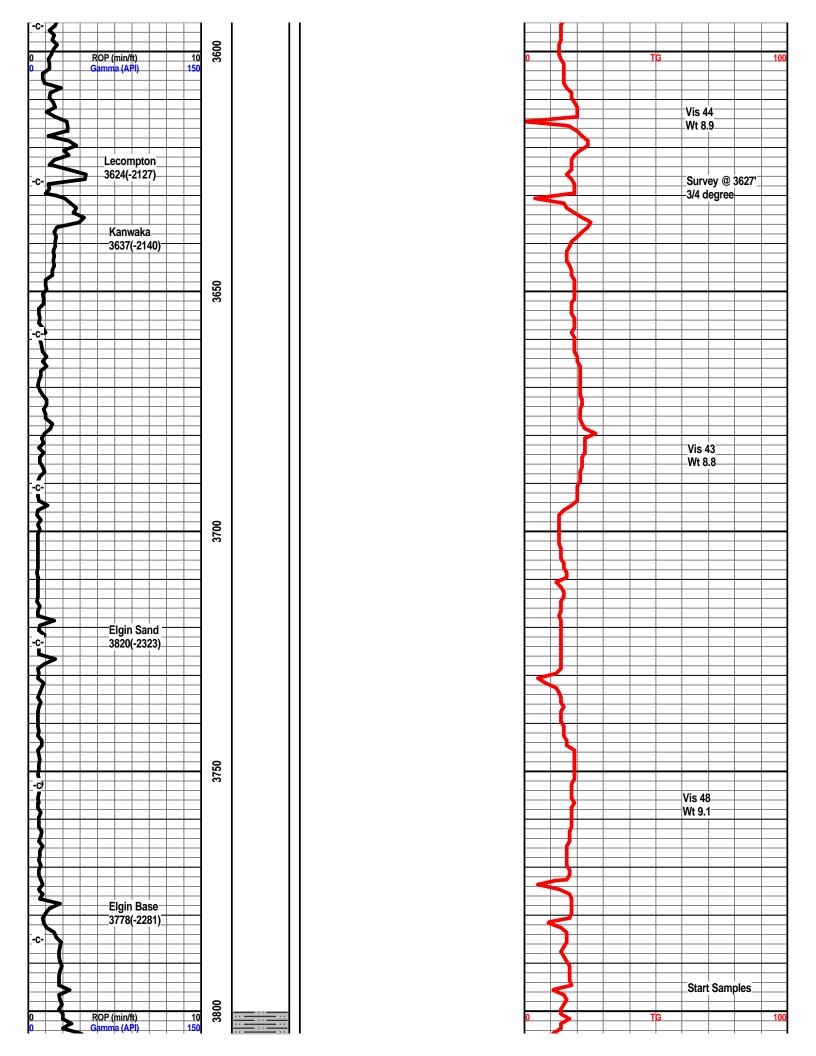


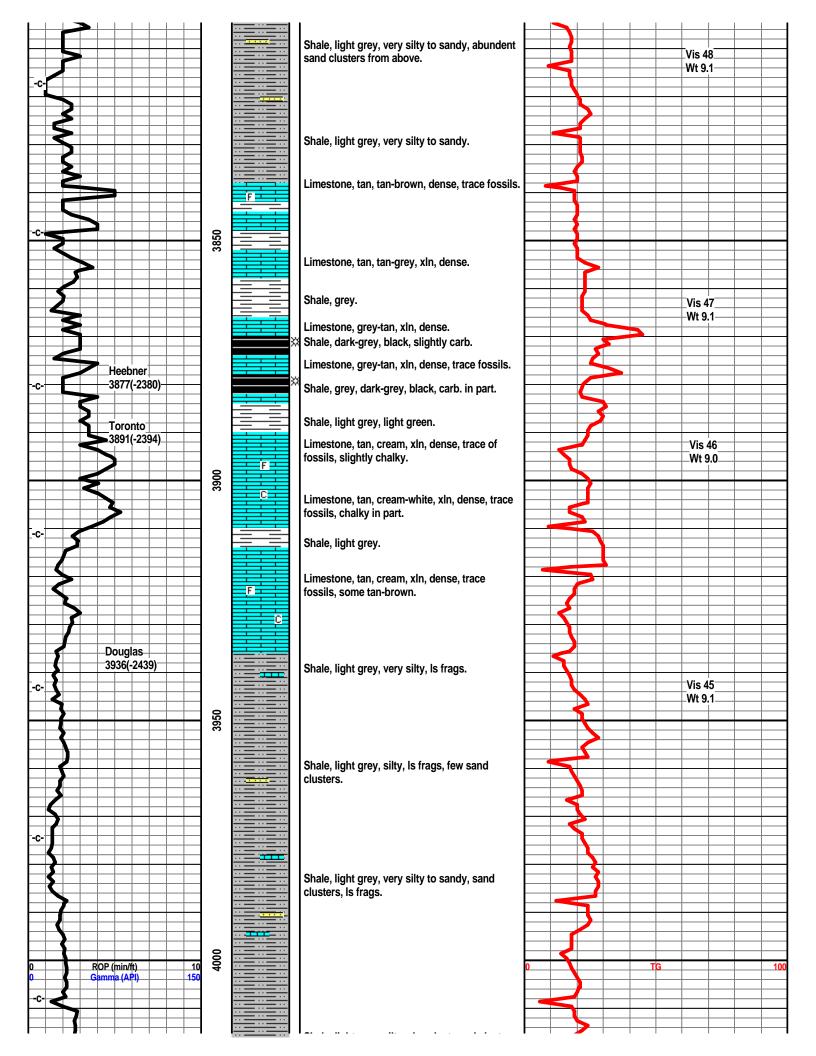


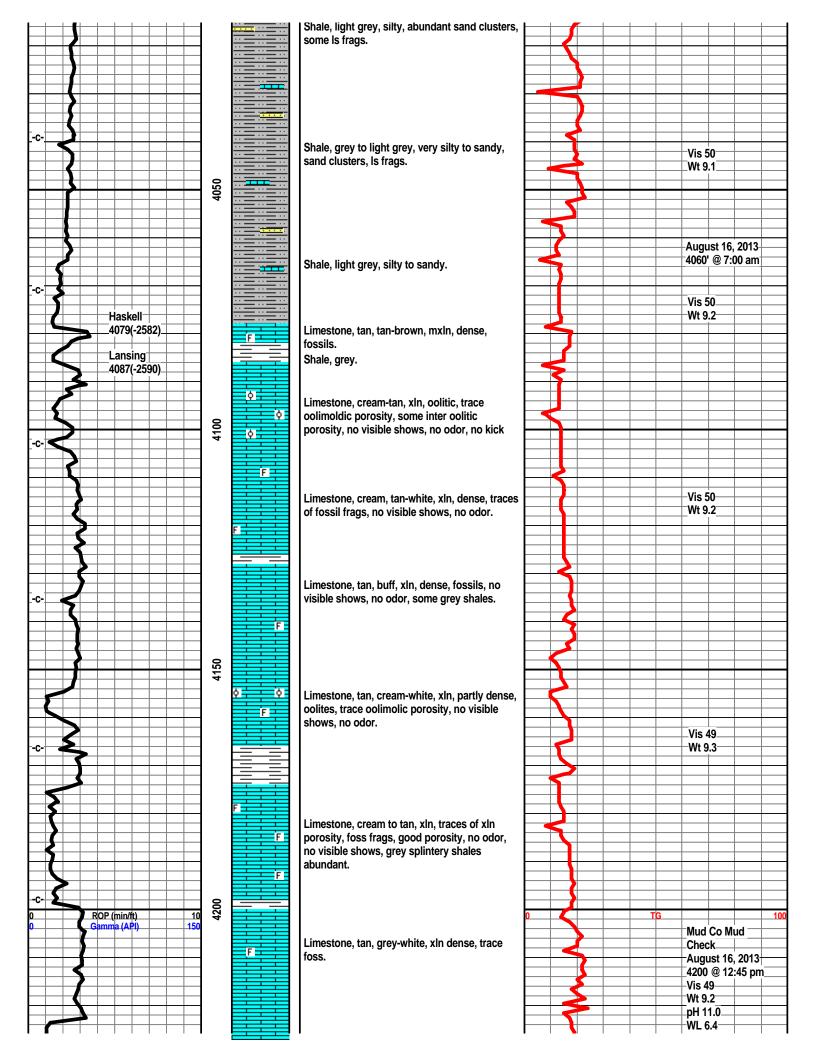


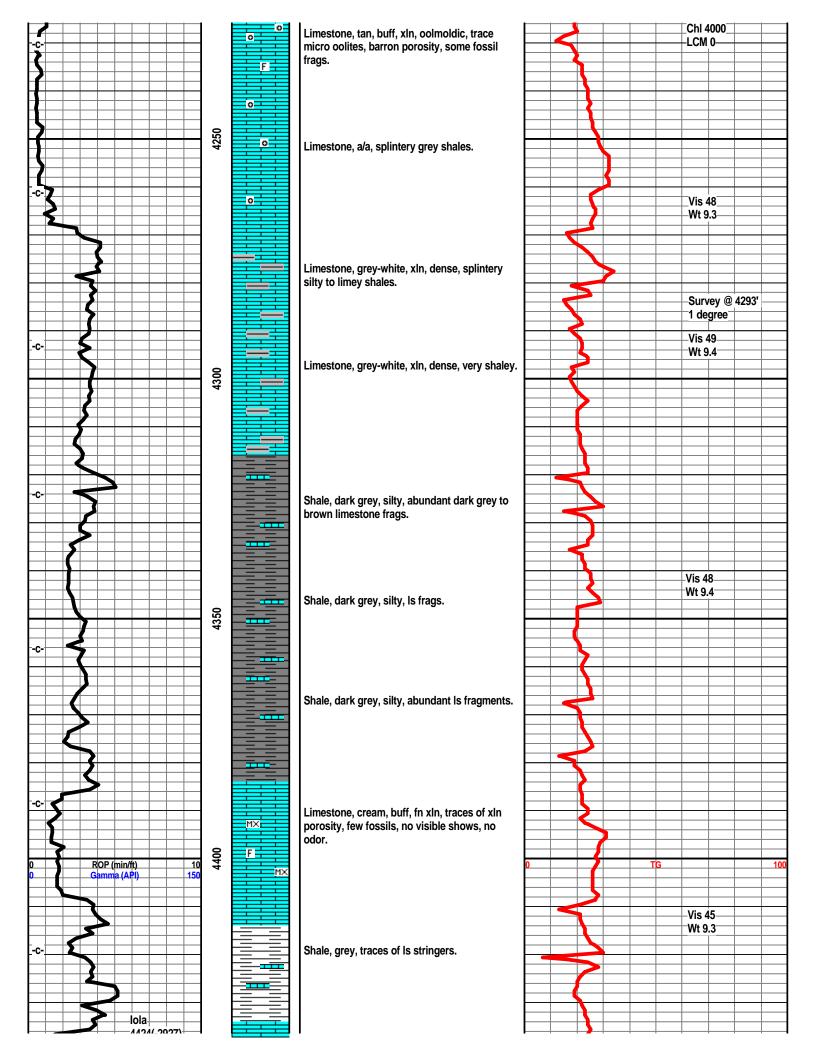


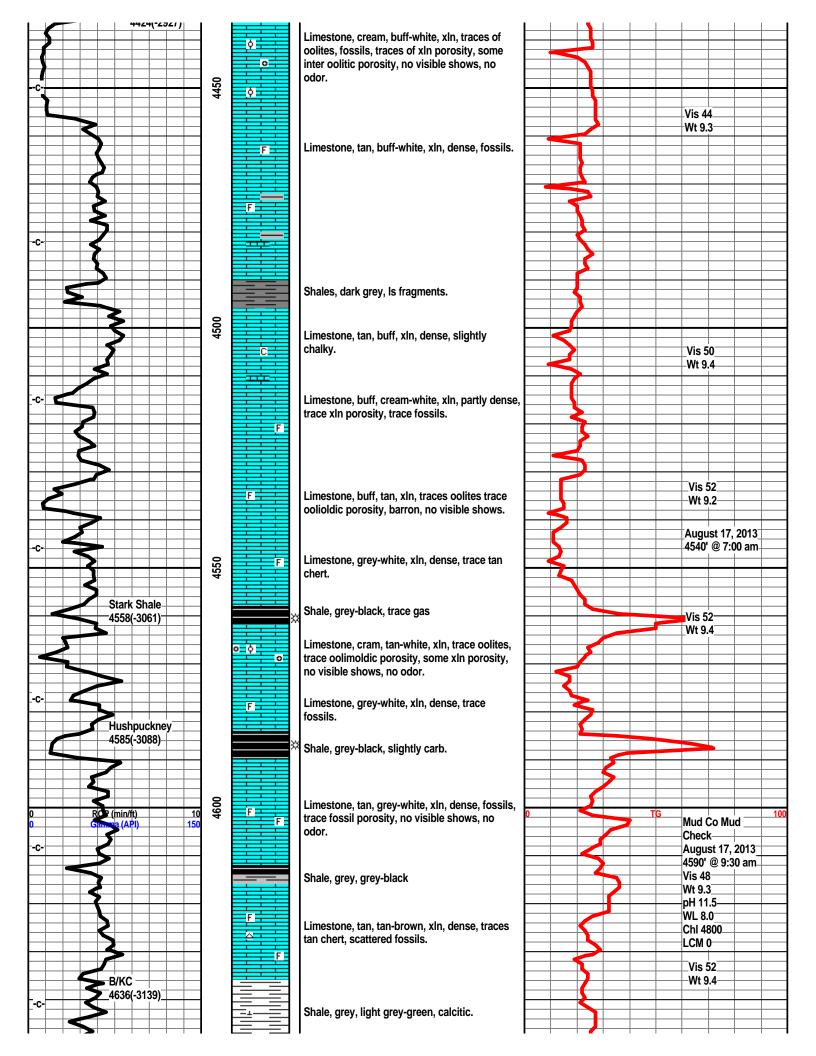


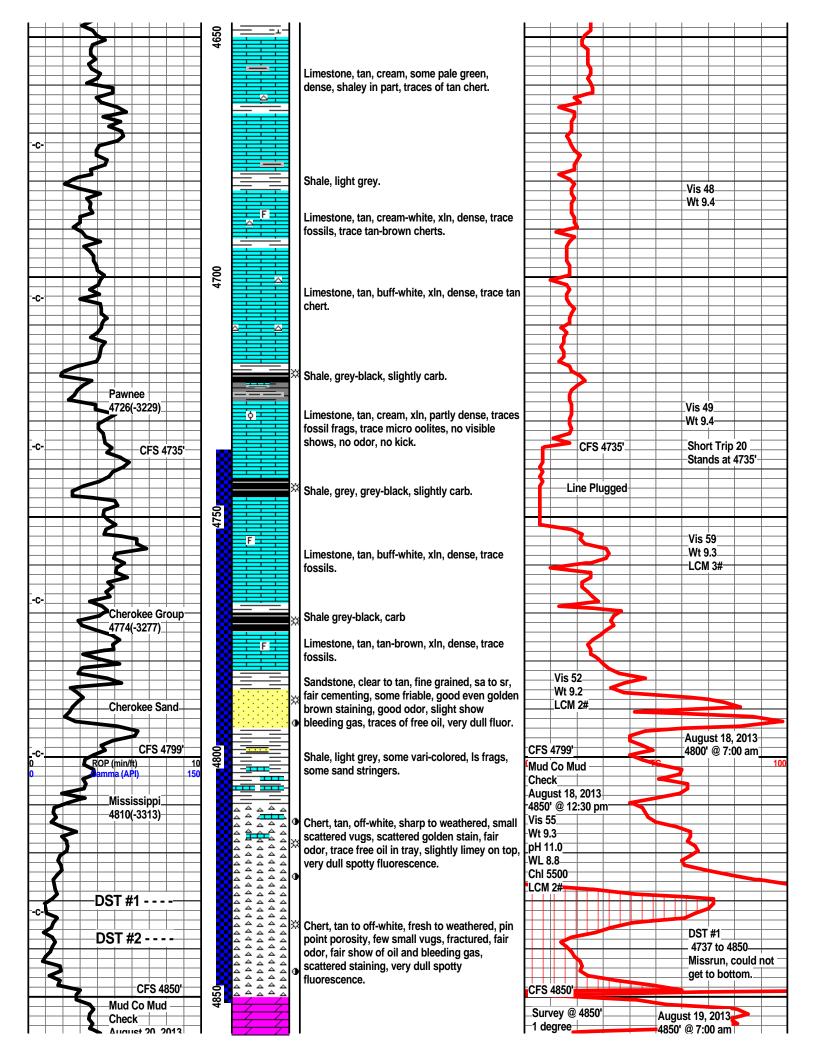


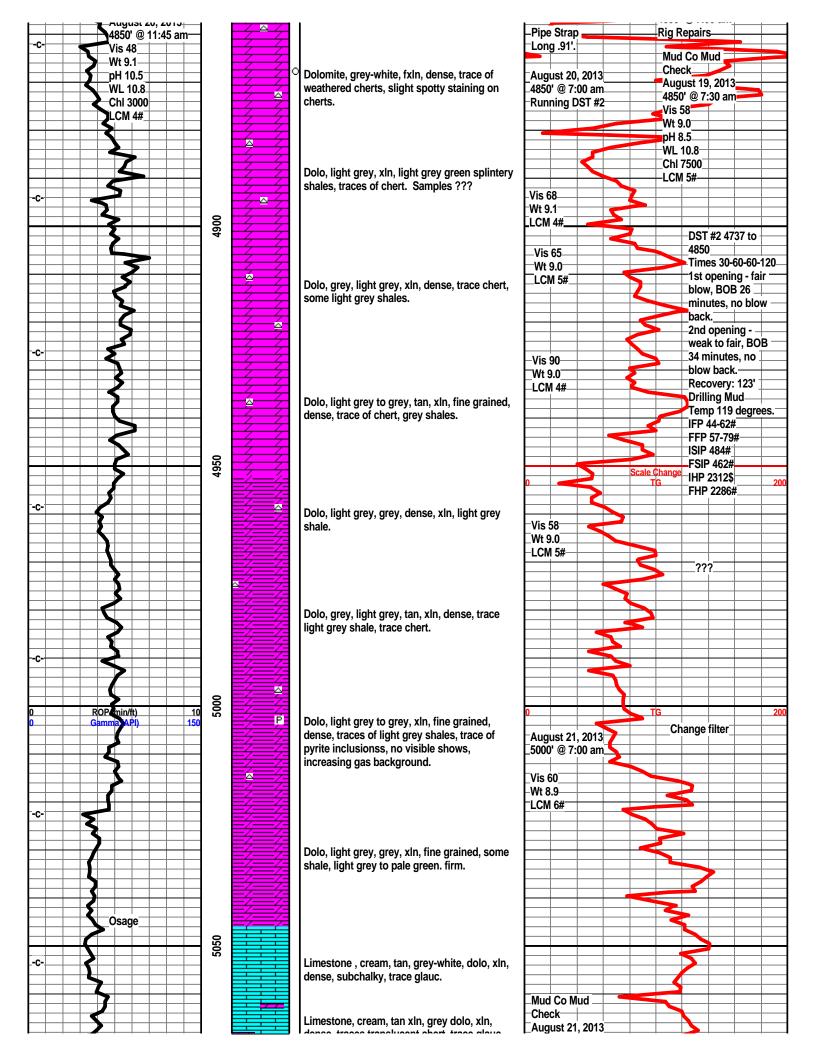


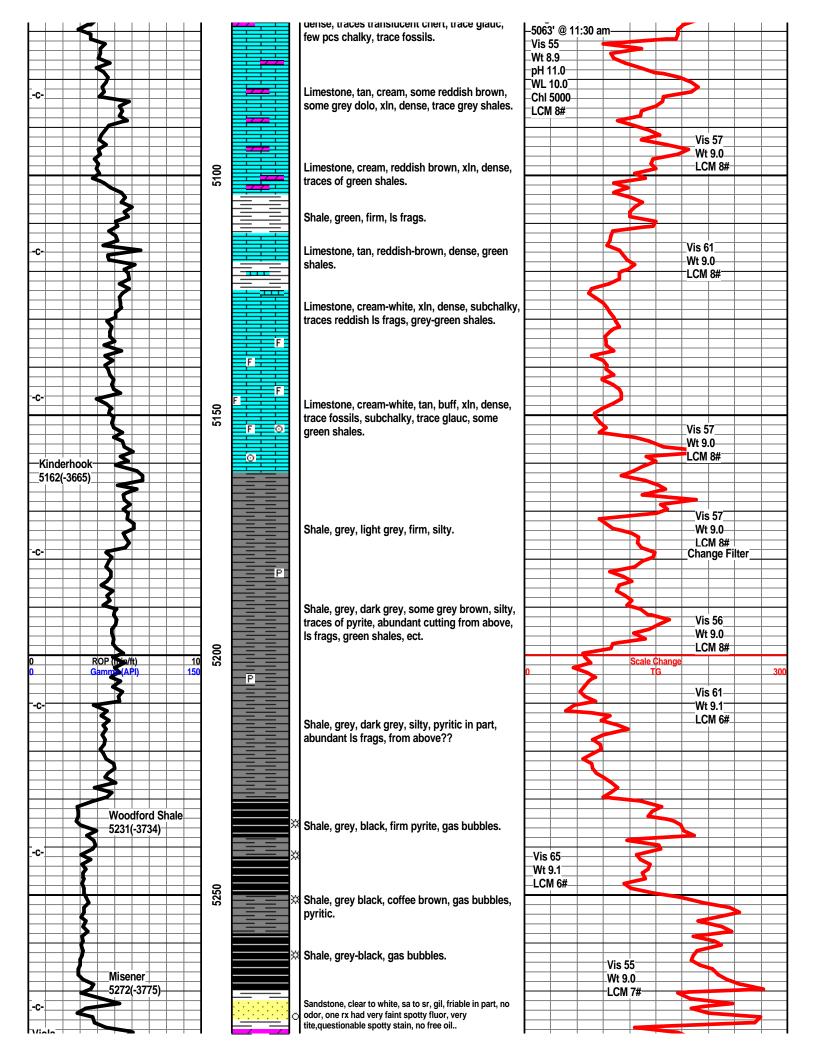


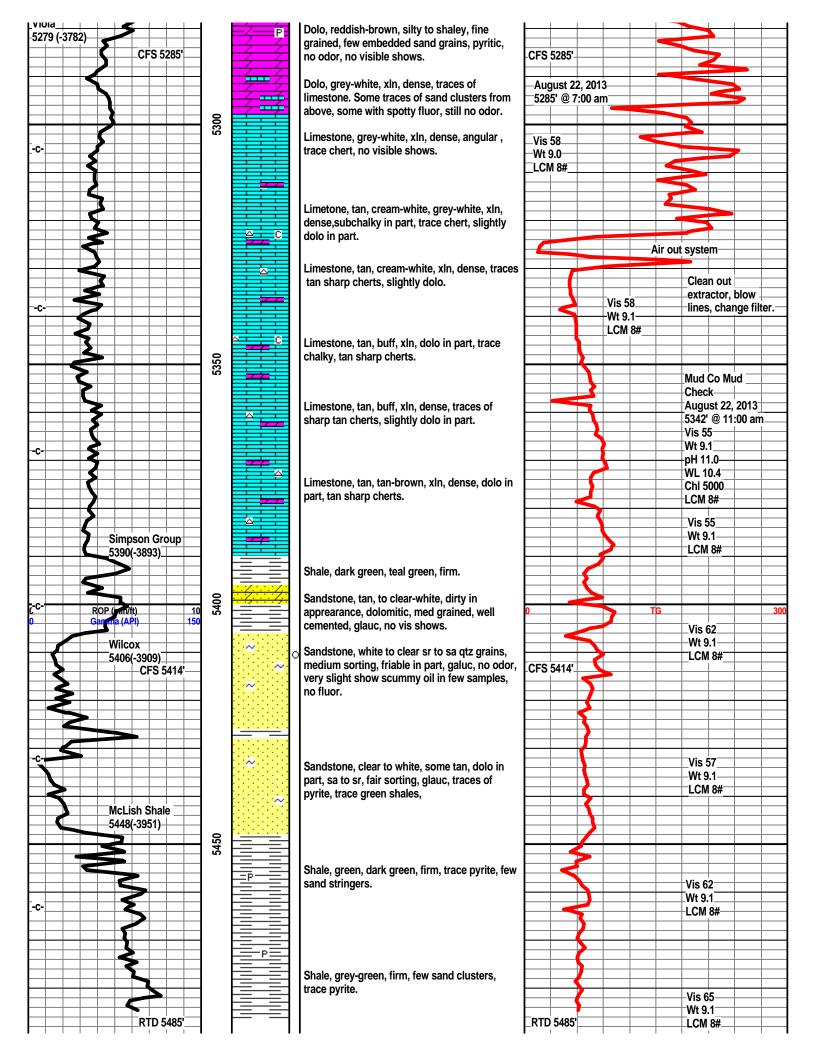












25500
*
20